KOVAI KALAIMAGAL COLLEGE OF ARTS AND SCIENCE

An Autonomous Institute, Affiliated to Bharathiar University,Coimbatore.

Re-Accredited with 'A" Grade by NAAC

Narasipuram, Coimbatore -641109

DEPARTMENT OF COMPUTER SCIENCE

COURSE OUTCOMES (CO)

B.SC COMPUTER SCIENCE

For the Students Admitted in the Academic year 2020-2021

KOVAI KALAIMAGAL COLLEGE OF ARTS & SCIENCE
(Autonomous) Coimbatore – 641 109

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Core Competency: Graduate will solve real world problems appropriate to the discipline using strong foundation provided in Computer Science

PEO2: Breadth: Graduate will apply current industry accepted practices, new and emerging technologies to analyze, design, implement, and maintain state-of-art solutions.

PEO3: Learning Environment: Exhibit self- learning capabilities to assimilate and practice emerging theories and technologies.

PEO4: Professionalism: Graduates will pursue higher education and/or engage themselves in continuous professional development to meet global standards **adapt to the changing environment due to automation.**

PEO5: Preparation: Be successfully employed or accepted into a graduate program / higher studies, and demonstrate a pursuit of lifelong learning in advanced areas of computer science and related fields.

PEO6: Leader ship : Graduates will work as a team in diverse fields and gradually move into leadership positions.

KOVAI KALAIMAGAL COLLEGE OF ARTS & SCIENCE
(Autonomous) Coimbatore – 641109

DEPARTMENT OF COMPUTER SCIENCE
PROGRAMME OUTCOMES (PO) OF B.Sc (CS)
For the students admitted In theAcademic Year 2020-2021

PO(PROGRAM OUTCOMES)

1. **Communication Skill:** Demonstrate english language proficiency to an approriate level to perform effectively in the enterprise/industry/Community such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
2. **Domain knowledge:** Develop doamin knowledege relevant to the industry enabling to succeed in rapidly changing working environment.
3. **Technical skills:** Ability to apply the knowledge of computer system design principles in building system software and hardware.
4. **Knowledge inter-disciplinary in nature:** Acquiring adequate knowledge in interdisciplinary subjects much as Commerce,Mathematics and Statistics for enhanced applications of softwares developed.
5. **Positive attitude:** Developing positive attitude by instilling confidence in theminds of students by suitable programs.
6. **Critical thinking and problem solving skills:** An abilility to make the students think out of the box and slove complex problems arrising in shop floor situation.
7. **Dynamism and team building skills:** An ability to function effectively and proactively and in teams,to accomplish a common goal.
8. **Professional ethics and social values:** Ability to carry out any task with professional ethics and with out deviating from social values
9. **Self-awareness and emotional intelligence:** An ability to recognize their own Strength and weekness and balance their own emotions at the time of crisis.
10. **Entrepreneurship qualities:** An ability to acquire entrepreneurship qualities and to take efforts to become entreprenurs.
11. **Responsibility towards society and environment:** Realizing the responsibilities towards the society and to protect the environment,use professional knowledge for providing better living condition to the people.
12. **Thirst for knowledge through lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

SEMESTER I

Programme Code	B.Sc.CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U1TALT01	Title : Language 1: Tamil - I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

நோக்கம்

1. சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
2. புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
3. தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
4. மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
5. மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO 3	PO4	PO5	PO 6	PO7	PO 8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	✓	✓	-	✓	-	-	✓	-
CO3	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER I

Programme Code	**B.Sc.CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U1HILT01**	Title : Language 1:Hindi I	**Batch**	**2021-2022**
			Semester	**I**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSEOUTCOMES(CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER I

Programme Code	**B.Sc.CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U1MLLT01**	Title : Language 1: Malayalam I	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Malayalam language.

COURSEOUTCOMES(CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Help the learners to learn other Indian languages like Sanskrit,Tamil etc., through Malayalam without much effort.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER-I

Programme Code	B.Sc.CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U1ENLT01	Language II- Functional English – I	Batch	2020-2023
			Semester	I
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose.
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER I

Programme Code :	**B.Sc**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U1CSCT01**	**Title:**	**Batch**	**2020-2023**
Hrs/week	**4 Hrs**	**Core1: C Programming**	**Credits**	**4**

COURSE OBJECTIVES

To enable the Students

- To know about problem solving techniques and algorithm fundamentals and basics of C Programming.
- To clearly understand decision making and branching concepts with various statements.
- To know about the concept of arrays, strings and functions with its various operations.
- To learn about the concept of structure, pointers
- To acquire the knowledge of file management.

COURSE OUTCOMES (CO) On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the basic concepts of Problem solving and algorithms
CO2	Explain the loops and decision making statements to solve the problem
CO3	Apply different operations on arrays
CO4	Use functions to solve the given problem
CO5	Discuss about file system and operations on files

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U1CSCT02	Title :Core 2: Digital Fundamentals and Architecture	Batch	2020-2023
			Semester	I
Hrs/week	4		Credits	3

COURSE OBJECTIVES

- To provide a knowledge about the concepts of Computer Fundamentals and enable the students to understand Digital Logic Circuits and Gates.
- To know about number system and binary codes.
- To understand the basics of combinational logic circuits and its operations.
- To know about the sequential circuits and its designing architecture.
- To know about the input -output and memory organizations.

COURSE OUTCOMES (CO):

On the successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Apply the principles of number system, binary codes and Boolean algebra to minimize logic expressions
CO2	Acquire knowledge about various logic gates and logic families and analyze basic circuits of these families
CO3	Develop K-maps to minimize and optimize logic functions up to 5 variables
CO4	Demonstrate computer architecture concepts related to design of modern processors, memories and I/Os.
CO5	Evaluate various design alternatives in processor organization

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO2	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO3	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO4	-	✓	✓	✓	-	-	-	-	-	✓	-	-
CO5	-	✓	✓	✓	-	-	-	-	-	✓	-	-

SEMESTER I

Programme Code	**B.Sc CS**	**Programme Title**	**Bachelor of Science ((Computer Science))**	
Course Code	**20U1CSCP03**	**Title : Core 3: C Programming - Practical**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**3**		**Credits**	**3**

COURSE OBJECTIVES:

- To enable the students to gain knowledge in developing C Programs for certain specified problems.
- To develop the applications using C Programming language.To apply the concepts like looping, functions, pointers and file types.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Write programs using various data types in C.
CO2	Use various operators and expressions.
CO3	Apply the concept of Arrays, Pointers and strings
CO4	Apply the concept of loops and functional programming
CO5	Use the file handling concepts for maintaining record.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER I

Programme Code :	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U1CSAT01**	**Title : Numerical Methods and Statistics**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5**		**Credits**	**4**

COURSE OBJECTIVES:

To enable the Students

- To understand the different Methods of solving numerical, algebraic and Transcendental Equations .
- To find derivatives using various formulae using numerical differentiation and integrate various functions using numerical integration.
- To have a knowledge of finding numerical solutions of ordinary differential Equations.
- To learn how to calculate various statistical constants.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	**CO Statement**
CO1	Find Numerical Solution of Algebaric and Transcental Equations.
CO2	Solve Simultaneous Linear Algebraic Equations by using different methods.
CO3	Explain the methods of Numerical Differentiation, Integeration of various functions and finding Numerical Solution of Ordinary Differential Equation using different methods.
CO4	Calculate the Statistical Constants.
CO5	Explain the concepts of Correlation and Regression and their applications in practical situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER - I

Programme Code	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U1VBET01	**Title :**Value Based Education 1 - Environmental Studies	Batch	2020-2023
			Semester	I
Hrs/ Week	2 Hours		Credits	1

COURSE OBJECTIVES:

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation
- To make the students know on various types of environmental pollution, their causes , effects, their prevention and the students role in the same.
- To make the students to know about the various eco sysytem.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U1NMET01**	**Non Major Elective1 : Food Science and Nutrition**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2**		**Credits**	**2**

COURSE OBJECTIVE

- To understand the importance of Nutrition and the role of food in the maintenance of good health
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety

CO Number	**CO Statement**
CO1	identify the properties of various food components
CO2	Explain the role of nutrition in the maintenance of good health
CO3	Explain about classification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme Code :	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U1SBST01**	**Skill Based Subject 1 :** Mathematics for Competitive Examinations -I	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES

To enable the Students

To understand the fundamental arithmetic skills and various methods of problem solving.
To learn about the average and Problems on numbers.
To solve problem related to Ages, Calander and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races, games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER-I

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code:	**20U1SBST02**	**Skill Based Subject 2: Communication Skills- I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/ Week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to over come the same.
- To make the students to know various types of listening and the effect of enhancing the listening skills .
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained.

COURSE OUTCOMES (CO):

On Successful completion of the course the students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	✓	-	-	-
CO2	-	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	-

SEMESTER II

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U2TALT02	Title : Language 2: Tamil - II	Batch	2020-2023
			Semester	II
Hrs/week	5		Credits	3

நோக்கம்

சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்

இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.

அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.

தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.

மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	✓	✓	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U2FRLT02**	**Title : Language 2: French II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of French language.

COURSEOUTCOMES(CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	have access to the works of great french writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U2HILT02**	**Title : Language 2: Hindi II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U2MLLT02**	**Title :Language 2: Malayalam II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Malayalam language.

COURSEOUTCOMEs(CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Help the learners to learn other Indian languages like Sanskrit,Tamil etc.,through Malayalam without much effort.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓						

SEMESTER-II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code:	**20U2ENLT02**	**Language II-Functional English – II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/ Week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSEOUTCOMES(CO): On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U2CSCT04**	**Title :Core 4 : C++ PROGRAMMING**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES:

- To provide knowledge on object oriented programming concepts using C++.
- To enable the students to provide an in-depth knowledge about the concepts of language structure, program divisions of C++ programming language.
- To enhance the knowledge about dynamic memory management.
- To gain the knowledge about polymorphism.
- To enhance the students knowledge in writing C++ programs and the concepts of File Handling.

COURSE OUTCOMES (CO):

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Describe the object oriented paradigm with concepts of streams, classes, functions, data and objects
CO2	Summarize relative merits of object oriented programming language & concepts.
CO3	Apply pointers, constructors, destructors in dynamic memory management.
CO4	Describe the concept of function overloading, operator overloading and virtual functions
CO5	Explain about exception handling and class templates.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER II

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U2CSCT05	Title : Core 5 : Data Structures	Batch	2020-2023
			Semester	II
Hrs/week	4 Hours		Credits	4

COURSE OBJECTIVES

- To study about the design and implementation of the data structure and how the data are manipulated in order to develop an application and also helps the students in understanding the use of data structure in the real world.
- To make the students to understand the basic concepts of Data Structures and Algorithms.
- To understand the abstract data types stack, queue, deque, and list.
- To understand the performance of the implementations of basic linear data structures.
- To understand prefix, infix, and postfix expression formats.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recalls information for writing algorithms in solving problems.
CO2	Choose appropriate data structure as applied to specified problem definition.
CO3	Apply problem solving skills and provide a foundation for advanced programming courses using an object-oriented programming methodology.
CO4	Use linear and non-linear data structures like stacks, queues, linked list etc., and show operations like searching, insertion, deletion, traversing mechanism etc. on various data structures
CO5	Illustrate to store and retrieve data stored in both main memory and in secondary memory.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code	**20U2CSCP06**	**Title : Core 6 : C++ Programming - Practical**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES:

- To enable the students to gain knowledge in developing C++ Programs for certain specified problems.
- To develop the applications using C++ Programming language.
- To apply the concepts like looping, control statements arrays, function overloading and file concepts.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	**CO Statement**
CO1	Write programs in C++ to demonstrate Classes and objects
CO2	Use various types of arrays and constructors
CO3	Apply the concepts of virtual functions and function overloading
CO4	Write programs in C++ using special functions, constructor and destructor.
CO5	Use the file handling concepts

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U2CSAT02**	**Title : Allied 2 - Discrete Mathematics**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the Students to understand the concept of set theory, Logic and Relations
- To learn the concept of languages and Grammars
- To know the concept of Graph theory and its applications

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concepts of set theory, partition of sets, inclusion and exclusion principles.
CO2	Write an argument using logical notation and determine if the argument is valid or invalid.
CO3	Describe the binary relations between two sets and determine if the relation is partial order relation or equivalence relation using set operations.
CO4	Explain the concepts of formal languages and construct the finite state automata.
CO5	State the concept of graphs, enumerate the types of graphs and their applications practical situations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓					

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U2NMET02**	**Non Major Elective 2 : Floriculture**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals & Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U2VBET03	Value Based Education 2: Ethics and Culture **	Batch	2020-2023
			Semester	II
Hrs/week	2		Credits	1

Ethics and Culture (மனிதவள மாண்பு - தனிமனித விழுமியங்கள்இசமுதாய விழுமியங்கள்)

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்இ குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டுஇ சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	ஊழு ளுவயவநஅநவெ
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code:	**B.Sc CS**	**Programme Title**	**Bachelor of Science (Computer Science)**	
Course Code :	**20U2SBST03**	**Title : Skill Based Subject 3 Mathematics for Competitive Examinations -II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES

- To enable the Students to know about concept of Interest and Profit and loss. To know about methods of calculation concept of Interest and Profit and loss.
- To develop the ability in solving problems involving Permutation , Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER-III

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3CSCT07	Title: CORE 7: OPERATING SYSTEMS	Batch:	2020-2023
			Semester:	III
Hrs/Week:	5 Hrs		Credits:	4

COURSE OBJECTIVES:

- To gain knowledge on OS concepts and functioning of modern OS.
- To understand the different types of operating systems concepts like shell, Multi-Tasking / Time-sharing and Distributed Operating System.
- To understand the basic structure of OS, process and threads.
- To understand the deadlock & Memory management concepts.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basics of operating systems like kernel, shell, types and views of operating Systems
CO2	Implement operating system functions.
CO3	Describe the various CPU scheduling algorithms and remove deadlocks
CO4	Explain various memory management techniques and concept of thrashing
CO5	Recognize file system interface, protection and security mechanisms.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER-III

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3CSCT08	Title: Core 8: JAVA PROGRAMMING	Batch	2020-2023
			Semester	III
Hrs/Week:	5 Hrs		Credits	4

COURSE OBJECTIVES

Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

To be able to use the Java SDK environment to create, debug and run simple Java programs.

To understand the Java Programming concepts so as to enable the students to create wide range of Applications and Applets using Java.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CONumber	CO Statement
CO1	Explain the fundamental structure of java program and to develop different programs in java language.
CO2	Understand in detail about branching ,looping and arrays in java program using the development environment.
CO3	Solve problems using methods and interface
CO4	Identify the errors and develop the Applet program
CO5	Evaluate the file management in java language.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER-III

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3CSCT09	Title: Core 9: Data Communications And Networks	Batch	2020-2023
			Semester	III
Hrs/Week:	6 Hrs		Credits	3

Course Objectives

- At the end of the course, the students will be able to:
- Build an understanding of the fundamental concepts of computer networking.
- Familiarize the student with the basic taxonomy and terminology of the computer networking area.
- Introduce the student to advanced networking concepts, preparing the student for entry Advanced courses in computer networking.
- Allow the student to gain expertise in some specific areas of networking such as the design and maintenance of individual networks.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Independently understand basic computer network technology. And Understand and explain Data Communications System and its components.
CO2	To Apply the different types of network topologies and protocols.
CO3	Analyse the layers of the OSI model, TCP/IP and the function(s) of each layer.
CO4	To Evaluate and building the skills of subnetting and routing mechanisms.
CO5	To Create the basic protocols of computer networks and how they can be used to assist in network design and implementation.

Mapping Outcome

CO&PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – III

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3CSCP10	Title:Core 10: Java Programming Practical	Batch	2020-2023
			Semester	III
Hrs/Week:	6 Hrs		Credits	3

COURSE OBJECTIVES:

- To develop the applications using Java Programming language.
- To apply the concepts like looping, methods, interface, applets and file concepts.

COURSE OUTCOMES:

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Observe Java to demonstrate practical experience in developing solutions
CO2	Evaluating different methods, interface, applets and file concepts.
CO3	Distinguish about Compile and debug programs in Java language
CO4	Evaluating different controls in java
CO5	Evaluating the file handling functions

MAPPING WITH PROGRAMME OUTCOMES:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER III

Programme Code	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U3CSAT03	Title: Allied 3: Operations Research	Batch	2020-2023
			Semester	III
Hrs/week	5		Credits	4

COURSE OBJECTIVES

- To enable the Students
- To Know Operation Research and LPP, solving LPP
- To solve transportation and assignment problems
- To acquire knowledge of queueing theory, PERT and CPM

COURSE OUTCOME

CO Number	CO Statement
CO1	Define Operations Research, Linear Programming Problem and explain thE methods of solving Solution of LPP using Graphical Method simplex method and Big M method
CO2	Solve Transportation and Assignment problems
CO3	Explain the concepts of Game Theory
CO4	Study the concepts of Queueing theory and solving simple problems
CO5	Know distinction between PERT & CPM

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	-	✓	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-
CO4	-	-	✓	✓	-	✓	-	-	✓	✓	✓
CO5	-	-	✓	✓	-	✓	-	-	-	✓	✓

SEMESTER III

Programme Code :	B.Sc CS	Programme Title:	Bachelor of Science (Computer Science)	
Course Code :	20U3SBST05	Skill based subject 3: Mathematics for competitive Examinations III	Batch	2020-2023
			Semester	III
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

To enable the Students

To make the students to know the concept of Pipes, Cistern and Probablity.

To solve problem related to Problems on Boats and Streams .

To make the students to know the concept of Alligation or mixture,Problem of Heights and distance,odd man out series.

COURSE OUTCOME (CO)

CO Number	CO Statements
C01	Several tricks and formulas for pipes and cisterms are available which reduces the effort to solve the problem.
C02	Solve the problems on time and distance train, boats and stream.
C03	Apply the concept of Alligation and height & distance to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	-	✓	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-

SEMESTER III

Programme Code :		Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U3BTLT01	Non Credit Course 1: Basic Tamil-I Title :	Batch	2020-2023
			Semester	III
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம் :

தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.

சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.

தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.

வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER III

Programme Code :	12-ƙ வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U3ATLT01	Non Credit Course 1: Advanced Tamil -I Title : சிறப்புத் தமிழ்	Batch	2020-2023
			Semester	III
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.

மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.

சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.

பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.

பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER – III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U3SSCT1A	Self Study Course1: Manitha vaazhkaiyum Gandhiadigalum** மனித வாழ்க்கையும் காந்தியடிகளும்	Batch	2020-2023
			Semester	III
Hrs/week	-		Credit	1

நோக்கம்

1. மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.

2. இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.

3. மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.

4. நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்துகொள்ளச் செய்தல்.

5. காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று

அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER-III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3SSCT1B	Self study Course – 1 V.O.Chidambaranarin vaazhkaiVaralaaruமூழுஇந்திய விடுதலைப் போரில் வ.உ.சி	Batch	2020– 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.

சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.

வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.

வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.

விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER-III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3SSCT1C	Self study Course – 1	Batch	2020 – 2023
		Nethaji Subash Chandrabosin vaazhkai Varalaaru**	Semester	III
Hrs/ Week	-	நேதாஜியின் வீர வரலாறு	Credit	1

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.

2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.

3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.

4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி

மாணவர்களுக்கு உணர்த்துதல்.

5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3SSCT1D	Self study Course –1 A.P.J.Abdul Kalamin vaazhkai Varalaaru** அக்னிச் சிறகுகள	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

Nehf;fk;

1. mg;Jy; fyhk; tho;f;if Kiw> fy;tp> tho;T gw;wp khzth;fs; fw;W czur;nra;jy;.

2. tho;f;ifj; jj;Jtq;fis fyhkpd; tho;itf;nfhz;L khzth;fis czur;nra;jy;.

3. ,isQh;fSf;F Vw;glf;$ba rthy;fis vjph;Nehf;Fk; jd;ikfis tsh;j;jy; NkYk; Njrg;gw;iw tsh;j;jy;

4. ,yf;F gw;wpa fdTk; tplhKaw;rpAk; tho;it Nkk;gLj;Jk; vd;gij fyhk; tho;f;if top khzth;fs; mwpar; nra;jy;

5. VTfizfs;> VTjsk; Fwpj;j mbg;gil Ghpjy;fis khzth;fsplk; Vw;gLj;Jjy;.

ghlg;gFjp fw;wypd; ntspg;ghL - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3SSCT1E	Self study Course – I	Batch	2020 - 2023
		E.V.R Periyarin vaazhkai Varalaaru**	Semester	3
Hrs/ Week	-	ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்	Credits	2

நோக்கம்

பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.

நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.

அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.

பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.

சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U3SSCT1F	Self study Course – I	Batch	2020 - 2023
		Kamarajarin vaazhkai Varalaaru**	Semester	3
Hrs/ Week	-	காமராசர் ஓர் வழிகாட்டி	Credits	2

நோக்கம்

காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.

காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.

உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.

காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.

திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER – IV

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U4CSCT11	Core 11 :Relational Database Management System	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hours		Credits	3

Course Objectives

On Completion of this Course

- To understand the concepts of RDBMS.
- To have knowledge on DBMS & RDBMS.
- To enhance their on SQL, DDL, DML, DCL Statements, Select, group by and having clause String and set operations, Aggregate Functions, Nested Sub Queries.
- To develop the skills of Embedded and Dynamic SQL.

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concept of Database and Database Design
CO2	Use the Commands and understand table
CO3	Use SQL query structure and modify the table
CO4	Describe about function, grouping and PL/SQL
CO5	Define the concept of Embedded SQL and PL/SQL

MAPPING WITH PROGRAM OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER-IV

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U4CSCT12	Title: CORE 12: Network Security and Cryptography	Batch	2020-2023
			Semester	IV
Hrs/Week:	5 Hrs		Credits	3

Course Objectives

At the end of the course, the students will be able to:

- Build an understanding of the fundamental concepts of Network Security
- Familiarize the student with the basic network security technology.
- Introduce the student to advanced cryptography concepts, preparing the student for entry Advanced courses in network security.
- Allow the student to gain expertise in some specific areas of cryptography and network security.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Independently understand basic computer security technologies and the model.
CO2	To study the different types of Symmetric ciphers.
CO3	Analyse the Public-Key Encryption And Hash Functions.
CO4	To Evaluate and building the skills in Network Security Applications.
CO5	To assist in System Security network design and implementation malicious software.

Mapping Outcome

CO & PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - IV

Programme code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)
Course Code:	20U4CSCT13	Title: Core 13:Software Engineering	Batch:2020-2023 Semester: IV
Hrs/Week:	5 Hrs		Credits: 3

COURSE OBJECTIVES

To learn the basics Concepts of Software Engineering .

To Understand the Phases of Software Engineering Life Cycle.

To learn about various types of Testing.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain a planning for a software project Development.
CO2	Prepare the SR analysis and Analysis Modelling Approaches. Apply Project Requirement analysis , Verification and validation
CO3	Generate designing Models
CO4	Developing Component based Software
CO5	Generate test cases using various testing techniques.

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – IV

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U4CSCP14	Cc CORE 14: Relational Database Management System -Practical	Batch	2020-2023
			Semester	IV
Hrs/week	6 Hours		Credits	4

COURSE OBJECTIVES

To enable the students to gain knowledge in developing C Programs for certain specified problems.

Understand the basics of computer graphics, different graphics systems and applications of computer graphics

Understand the concepts of different type of geometric transformation of objects in 2D and 3D

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Understand the concept of Database and Database Design
CO2	Understand the Commands and tables
CO3	Demonstrate SQL query structure and modify the table
CO4	Demonstrate about function, grouping and PL/SQL
CO5	Demonstrate the concept of Embedded SQL and PL/SQL

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	-	-	✓	-	✓	-	✓

SEMESTER-IV

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U4CSAT04	Title: ALLIED 4: BUSINESS ACCOUNTING	Batch	2020-2023
			Semester	IV
Hrs/week	6 Hours		Credits	4

COURSE OBJECTIVE

- To make the students understand the accounting principles, branches of accounting and journal, ledger and trial balance.
- To enable the students to prepare the final accounts.
- To enlighten the students of various methods of costing.
- To make the students to calculate the stock level and differtiate between cost, management and financial accounting.
- To provide knowledge on various types of budjets.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the basic Accounting concepts and the procedure to prepare journal and ledger.
CO2	Prepare Final Accounts of sole proprietor concern.
CO3	Prepare the cost sheet.
CO4	Calculate the Pricing of Material Issues.
CO5	Explain the Budgetary control system and Prepare the various types of budgets.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	-	-	-	-	-	-	-	✓
CO2	-	-	-	✓	-	-	-	-	-	-	-	✓
CO3	-	-	-	✓	-	-	-	-	-	-	-	✓
CO4	-	-	-	✓	-	-	-	-	-	-	-	✓
CO5	-	-	-	✓	-	-	-	-	-	-	-	✓

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U4BTLT02	Non Credit Course 2 : Basic Tamil-II Title : அடிப்படைத் தமிழ்	Batch	2020-2023
			Semester	IV
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.

தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.

தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.

தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்கை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U4ATLT02	Advanced Tamil-II # Title : சிறப்புத் தமிழ்	Batch	2020-2023
			Semester	IV
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.

திருக்குறளின் சிறப்பை அறியச் செய்தல்.

சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.

பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.

மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபுபிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

epuy; tpisTfisf; nfhz;l tiuglk;

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	✓	-	-	-	✓	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U4SSCT02B	Self Study Course 2: An Introduction to Constitution of India**	Batch	2020-2023
			Semester	IV
Hours/ Week	-		Credits	1

COURSE OBJECTIVES:

To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	For understand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U4SSCT02C	Self Study Course 2: Human Rights**	Batch	2020-2023
			Semester	IV
Hours/ Week	-		Credits	1

COURSE OBJECTIVES:

- To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Develop skills on human rights advocacy.
CO2	Appreciate the relationship between rights and duties.
CO3	Foster respect for tolerance and compassion for all living creature.
CO4	Create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code:	20U4SSCT02D	Self Study Course 2: CONSUMER AFFAIRS*	Batch	2020-2023
			Semester	IV
Hours/ Week	-		Credits	1

COURSE OBJECTIVES:

To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – V

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U5CSCT15	Core 15. ASP.Net and C#	Batch	2020-2023
			Semester	V
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

To enable the students

- To learn about the basic concepts of ASP .NET.
- To learn about the ASP .NET object model and its architecture.
- To learn about the C# and its functions.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand about ASP.Net environment and its applications.
CO2	Know about the various forms in Visual Basic and Session controls.
CO3	Write various applications using C# Language in the .NET Framework.
CO4	Develop distributed applications using .NET Framework.
CO5	Create various applications using C#.Net framework

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-

SEMESTER V

Programme Code	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U5CSCT16	Core 16: PHP & MySQL	Batch	2020-2023
			Semester	V
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

- Develops skills to create server-side scripts using PHP. Introduces server-side programming concepts and terminology. Explores a variety of server-side techniques and MySQL database manipulation.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Describe and use the features and syntax of programming language PHP
CO2	Create, translate, and process HTML information using the Common Gateway Information (CGI) protocol.
CO3	Apply PHP code to produce outcomes and solve problems.
CO4	Display and insert data using PHP and MySQL. Retrieve, insert, update, and delete data from the relational database MySQL
CO5	Test, debug, and deploy web pages containing PHP and MySQL.

MAPPING WITH PROGRAMME OUTCOMES

Cos/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	✓	✓	-	✓	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	-	-	-	-	-	-
CO4	✓	✓	✓	-	✓	✓	-	-	-	-	-
CO5	-	✓	✓	-	✓	✓	-	-	-	-	-

SEMESTER -V

Programme Code :	B.SC CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U5CSCP17	Core 17 : ASP .NET AND C# - PRACTICAL	Batch	2020-2023
			Semester	V
Hrs/week	6 Hours		Credits	4

COURSE OBJECTIVES

To enable the students to gain knowledge about the teaching methodologies useful for the implementation and console based application and web based application.

COURSE OUTCOMES (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Design, create, build, and debug arithmetic operations for displaying numeric output using .NET applications.
CO2	Developing a console application in ASP .NET.
CO3	Compute different operations using looping statements.
CO4	Developing applications using C#

MAPPING WITH PROGRAM OUTCOMES

COs/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER -V

Programme Code	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code	20U5CSCP18	CORE 18: PHP AND MY SQL - PRACTICAL	Batch	2020-2023
			Semester	V
Hrs/week	6 Hours		Credits	3

COURSE OBJECTIVE

To enable the students to gain knowledge in developing PHP and MySQL Programs for certain specified problems.

COURSE OUTCOMES (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Write PHP code to produce outcomes and solve problems.
CO2	Display and insert data using PHP and MySQL.
CO3	Test, debug, and deploy web pages containing PHP and MySQL.

Mapping With Programme Outcomes

CO/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U5NCCT01	Non Credit Course 1 : Aptitude and Soft Skills I	Batch	2020-2023
			Semester	V
Hrs/week	3 Hours		Credits	-

COURSE OBJECTIVES

To enable the Students

- To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	Grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing, elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-V

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U5SSCT03	Self Study Course 3 : General Awareness	Batch	2020-2023
			Semester	V
Hrs/week	-		Credits	1

COURSE OBJECTIVES:

- It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
- Develops a commitment to citizenship, through the ability to make informed decisions about public issues.
- Create an awareness of the achievements and perspectives of people of different nations and cultures, and of different races, genders and ethnicities.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to:

CO Number	CO Statement
CO1	get familiar with general awareness of the environment around him and its apply it to the society.
CO2	reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	✓	-		-		-		
CO2	-	✓		-	-		-	-	-		-	
CO3	-	✓	-	-		-	-		-	-		

SEMESTER –VI

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U6CSCT19	Core 19: Fundamentals of Python Programming	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hours		Credits	3

COURSE OBJECTIVES

- To understand the fundamentals of Python Programming.
- To understand and practice embedded dynamic scripting on client side Internet Programming.
- To understand and practice web development techniques on client-side.
- Learning Outcomes: To enable the students to gain knowledge in Python Programming with OOPs Concepts.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Exposed to Python syntax and semantics and be fluent in the use Python flow control and functions.
CO2	Create and run Python Programs using Lists, Dictionaries and handle File Systems.
CO3	Explain the concepts of Regular Expressions and Object-Oriented programming as used in Python.
CO4	Build Data Structures using Python.
CO5	Create programming projects from scratch using in-demand skill and technologies

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-		-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-		-	✓
CO5	-	✓	✓	-	-		-	-	-		-	

SEMESTER VI

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U6CSCT20	Core 20: SOFTWARE TESTING	Batch	2020-2023
			Semester	VI
Hrs/week	5		Credits	4

Course Objectives

- To make the students to understand Software Testing principles.
- To discuss the distinctions between types of testing.
- To understand the essential characteristic of tool used for test automation.

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	List a range of different software testing techniques and strategies and be able to apply specific (automated) unit testing method to the projects.
CO2	Distinguish characteristics of structural testing methods
CO3	Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible
CO4	Discuss about the functional and system testing methods.
CO5	Demonstrate various issues for object oriented testing with planning, Management, Execution and Reporting.

Mapping With Program Outcomes

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U6CSCP21	Core 21: Python Programming –Practical	Batch	2020-2023
			Semester	VI
Hrs/week	6 Hours		Credits	3

COURSE OBJECTIVES

To acquire basic knowledge of python programming.

Understand decision making and functions in python.

Learn object oriented programming using python.

Write and debug iles handling in python.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Review the concepts of python functions.
CO2	Develop python program using decision making statement
CO3	Interpret object oriented programming in python.
CO4	Design and develop GUI applications
CO5	Find the error using Exception Handling.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO2	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO3	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO4	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO5	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓

SEMESTER -VI

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science Computer Science	
Course Code :	20U6NCCT02	Non Credit Course 2 : Aptitude and Soft Skills II	Batch Semester	2020-2023 VI
Hrs/week	3 Hours		Credits	-

COURSE OBJECTIVES

- To enable the students
- To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.
- To equip the students with the required soft skills that would instill confidence and courage inthem, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	Grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing, elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-V

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U5CSET1A	ELECTIVE 1: DATA MINING AND WAREHOUSING	Batch	2020-2023
			Semester	V
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

To enable the students

- To know the basics of data mining and warehousing.
- To Understand various techniques in data mining.
- To learn about architecture of data warehouse and its applications

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	To present survey on different learning, classification and data miningfoundations.
CO2	To and methods for data Mining application.
CO3	To solve problems for multi-core or distributed, concurrent/Parallel environments.
CO4	To survey and use latest trends and advances in data mining and warehousing.

MAPPING WITH PROGRAMME OUTCOMES

CO /POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER – V

Programme code:	B.Sc CS	Programme Title	Bachelor of Computer Science	
Course Code:	20U5CSET1B	TITLE: ELECTIVE : 1 MOBILE COMPUTING	Batch:	2020-2023
			Semester:	V
Hrs/Week:	4 Hrs		Credits:	3

COURSE OBJECTIVES

On Successful Completion of this subject the students should have knowledge on Mobile Computing.

- To introduce the mobile communication fundamentals.
- To enable the students to know about GSM and GPRS Technologies.
- To make the students learn and understand 3G, 4G and 5G Technologies.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the fundamentals of mobile computing.
CO2	Describe Mobile Computing through Telephony.
CO3	Enumerate the Emerging Technologies with GSM.
CO4	Elucidate on GPRS and WAP Technologies.
CO5	Determine CDMA and 3G Concepts and Implementation.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓

SEMESTER:V

Programme code:	B.Sc CS	Programme Title	Bachelor of Computer Science	
Course Code:	20U5CSET1C	ELECTIVE 1 : EMBEDDED SYSTEMS	Batch	2020-2023
			Semester	V
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

- To make the students to have basic Knowledge and understanding of fundamental embedded systems design paradigms, architectures, possibilities and challenges, both with respect to software and hardware
- Ability to analyze a system both as a whole and in parts and their interaction in the functionality and properties of the system.
- To make the students to have a clear understanding on industrial embedded systems and intelligent embedded system development.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Understand what is a microcontroller, microcomputer, embedded system
CO2	Understand different components of a micro-controller and their interactions
CO3	Become familiar with programming environment used to develop embedded systems
CO4	Understand key concepts of embedded systems like IO ,timers, interrupts, interaction with peripheral devices
CO5	Learn debugging techniques for an embedded system

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER:V

Programme code:	B.Sc CS	Programme Title	Bachelor of Computer Science	
Course Code:	20U5CSET2A	ELECTIVE 2 : E-COMMERCE	Batch	2020-2023
			Semester	V
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

To enable students

- To have knowledge on concepts of e-Commerce.
- To enhance the knowledge in business strategy and inter organisational transactions.
- To understand the concepts of E-Markets, Electronic Data Interchange and E-Business.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of management information systems;
CO2	Have the knowledge of the different types of management information systems
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems
CO5	Understand the E-Wallet operation

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – V

Programme Code	B.Sc CS	Programme Title	Bachelor of Computer Science	
Course Code:	20U5CSET2B	ELECTIVE 2 :CLIENT SERVER TECHNOLOGY	Batch	2020-2023
			Semester	V
Hrs/ Week	4 Hrs		Credits	3

COURSE OBJECTIVES

- To understand the concepts of client/server
- To learn the components of client and server application-Client & Server
- To learn the components of client and server application-Connectivity
- To learn the components of client and server application-Software & Hardware

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CONumber	CO Statement
CO1	Use Human/Computer Interaction design principles and best practices for graphical user interface design and development.
CO2	Design and implement advanced graphical user interfaces using basic and advanced Swing components such as JTable and JTree.
CO3	Manage components using advanced layout techniques of Group Layout and Grid Bag Layout.
CO4	Use I/O Object serialization.
CO5	Use the Components of Client/Server Applications–Hardware

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	-	-	-	-	-	✓	-
CO2	-	-	✓	-	-	✓	-	-	-	✓	✓	-
CO3	-	-	✓	-	-	✓	-	✓	-	-	✓	-
CO4	-	-	✓	-	-	✓	-	✓	-	-	✓	-

SEMESTER – V

Programme Code	B.Sc	Programme Title		Bachelor of Computer Science
Course Code	20U5CSET2C	ELECTIVE 2: Software Project Management	Batch	2020-2023
			Semester	V
Hrs/week	4		Credits	3

COURSE OBJECTIVES

- To get knowledge of how to handle project development activities
- To understand the threats and opportunities in Project managements
- To study various project cost, time estimation models.
- To study how to make quality software products.
- To Appreciate management issues like team structure and group dynamics

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Apply project management concepts and techniques to an IT project.
CO2	Identify issues that could lead to IT project success or failure.
CO3	Explain project management in terms of the software development process.
CO4	Describe the responsibilities of IT project managers.
CO5	Apply project management concepts through working in a group as team leader or active team member on an IT project

Mapping With Programme Outcomes

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	✓	-
CO2	-	✓	✓	-	-	✓	-	-	-	✓	✓	-
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO5	-	✓	✓	-	-	✓	-	✓	-	-	✓	-

SEMESTER-VI

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U6CSET3A	Elective 3 : Artificial Intelligence and Expert System	Batch	2020-2023
			Semester	VI
Hrs/week	4 Hours		Credits	3

Course Objectives

To enable the students

- To Understand different planning problems and have the basic knowledge how to design and implement AI planning systems
- Understand the strengths and limitations of various state-space search algorithms and choose the appropriate algorithms for a problem.

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the strengths and limitations of various state-space search algorithms and choose the appropriate algorithms for a problem
CO2	Learn the basics of the theory and practice of Artificial Intelligence as a discipline about intelligent agents capable of decision making.
CO3	Apply knowledge representation techniques and problem solving strategies to common AI applications
CO4	Design simple software to experiment with various AI concepts and analyze Results
CO5	Build self-learning and research skills to be able to tackle a topic of interest on his/her own or as part of a team

Mapping With Programme Outcomes

CO\ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-

CO2	-	✓	✓	-	-	✓	✓	-	-	-	✓	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓

SEMESTER VI

Programme Code	B.SC CS	Programme Title	Bachelor of Science Computer science	
Course Code	20U6CSET3B	Elective 3: Big Data Analytics	Batch	2020-2023
			Semester	VI
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

To enable the students

- To study the basic technologies that forms the foundations of Big Data.
- To understand the specialized aspects of big data including big data application, and big data analytics
- To study different types case studies on the current research and applications of the Hadoop and big data in industry

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the building blocks of Big Data
CO2	Differentiate and identify right database models for real time applications
CO3	Analyze recent research trends related to Hadoop File System, MapReduce and Google File System etc
CO4	Analyze the analytical aspects of Big Data
CO5	Explain the detailed architecture, database properties and storage requirements

Mapping With Programme Outcomes

CO PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER V

Programme Code :	B.Sc CS	Programme Title	Bachelor of Science (Computer Science)	
Course Code :	20U6CSET3C	Elective 3 : Enterprise Resource Planning	Batch	2020-2023
			Semester	VI
Hrs/week	4		Credits	3

COURSE OBJECTIVES

To develop the capability to streamline the different organizational processes and work flows in ERP and to understand the ways of Improving efficiency, performance, and productivity levels of ERP Projects.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understanding the challenges associated with managing extant ERP systems.
CO2	Learn the forces and organizational conditions leading to the acquisition of such enterprise wide systems.
CO3	The opportunity to identify extant and missing organizational competencies that may be drawn upon to create an appropriate ERP implementation method.
CO4	Understanding of issues and decisions that must be made when embarking upon a ERP selection and implementation journey.
CO5	Understand and implement the ERP tools for integrated system

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER – VI

Programme code:	B.Sc CS	Programme Title	Bachelor of Computer Science	
Course Code:	20U6CSET4A	ELECTIVE 4: COMPILER DESIGN	Batch	2020-2023
			Semester	VI
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

To learn the fundamentals of Compiler Designes

- To gain knowledge on High level Programming languages
- To gain an insight into the lexical Analysis components viz. the algorithms for implementation of finite automata
- To know the components and management aspects of parsing tables, types of Error and the methods Detection and Recovery

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Specify and analyse the lexical, syntactic and semantic structures of advanced language features
CO2	Separate the lexical, syntactic and semantic analysis into meaningful phases for a compiler to undertake language translation
CO3	Write a scanner, parser, and semantic analyser without the aid of automatic generators
CO4	Describe techniques for intermediate code and machine code optimisation
CO5	Design the structures and support required for compiling advanced language features.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	✓	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	✓	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	✓	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	✓	✓	-	-	-	-	-	✓

SEMESTER – VI

Programme code:	B.Sc	Programme Title	Bachelor of Computer Science	
Course Code:	20U6CSET4B	ELECTIVE 4: Mobile Operating System	Batch	2020-2023
			Semester	VI
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

To enable the students

- To understand the process of developing software for the mobile and create mobile applications on the Android Platform

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand the limitations and challenges of working in a mobile and wireless environment.
CO2	Describe and apply the different types of application models/architectures used to develop mobile software applications.
CO3	Describe the components and structure of a mobile development frameworks (Android SDK and Eclipse Android Development Tools
CO4	To learn how and when to apply the different components to develop a working system
CO5	Design, implement and deploy mobile applications using an appropriate software development environment.

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	✓	-	-	-	-	-	-
CO4	-	✓	✓	✓	✓	-	-	-	-	-	-
CO5	-	✓	✓	✓	✓	-	-	-	-	-	-

SEMESTER-VI

Programme code:	B.Sc	Programme Title	Bachelor of Computer Science	
Course code:	20U6CSET4C	Elective 4 : Cloud Computing	Batch	2020-2023
Hrs/Week	4 Hrs		Semester	5
			Credits	3

COURSE OBJECTIVES

To enable the students

To Understand the Cloud computing architectures, applications and challenges and learn about various cloud storages

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand History and Benifits in cloud computing
CO2	Analyse the Cloud Computing Architecture and Models
CO3	Identify the cloud data center and visualization technologies.
CO4	Analyse the visualization technology and security issues of cloud Computing
CO5	Evaluate various advanced cloud computing platforms

MAPPING WITH PROGRAMME OUTCOMES

CO /POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓

Kovai Kalaimagal College of Arts and Science

Re- Accredited with 'A' Grade by NAAC
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Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE OUTCOMES (CO)

BCA

For the Students Admitted in the Academic year 2020-2021.

SEMESTER I

Programme Code :	**ALL UG**	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	20U1TALT01	Language 1 : **Tamil - I**	**Batch**	2020-2023
			Semester	1
Hrs/week	5		**Credits**	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO9**	**PO10**	**PO11**
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO2	-	-	-	-	✓	✓	–	✓	–	–	✓
CO3	-	–	-	-	✓	✓	-	–	✓	–	–
CO4	-	-	-	-	✓	-	-	–	–	✓	–
CO5	✓	-	-	-	-	-	-	-	✓	-	-

SEMESTER-I

Programme Code	All I- Year UG Programmes	Programme Title	Bachelor of Computer Applications	
Course Code:	**20U1ENLT01**	Language 2 : **-Functional English – I**	**Batch**	**2020-2023**
Hrs/ Week	**5 Hrs**		**Semester**	**I**
			Credits	**3**

COURSE OBJECTIVES:

1. To enable the students to understand the basic grammar in English.
2. To acquaint students with the structure and strategies of conversation
3. To make the students appreciate the significant works and style of prose
4. To develop the skills of speaking and writing without flaws.
5. To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	✓	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-
CO3	-	-	✓	-	-	-	-	-	-	-	-

SEMESTER I

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	20U1CACT01	Core 1: C Programming	Batch	2020-2023
Hrs/week	5 Hrs		Semester	1
			Credits	4

COURSE OBJECTIVES

To enable the Students

- To know about problem solving techniques and algorithm fundamentals and basics of C Programming.
- To clearly understand decision making and branching concepts with various statements.
- To know about the concept of arrays, strings and functions with its various operations.
- To learn about the concept of structure, pointers
- To acquire the knowledge of file management.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the basic concepts of Problem solving and algorithms
CO2	Explain the loops and decision making statements to solve the problem
CO3	Apply different operations on arrays
CO4	Use functions to solve the given problem
CO5	Discuss about file system and operations on files

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	○
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code :	**BCA**	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	**20U1CACT02**	**Core 2: Digital Fundamentals And Architecture**	**Batch**	**2020-2023**
Hrs/week	**4 Hrs**		**Semester**	**1**
			Credits	**4**

COURSE OBJECTIVE

On Completion Of this Course,

- To Understand the various numbering System & Convertion problems
- To enhance the Knowledge of basic Logic circuits.
- To Learn about sequential circuit
- To Understand various data transfer techniques in digital computer**.**
- To gain the concepts of memory organization

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	**CO Statement**
CO1	Review various Numbering System & Conversion problems
CO2	Design basic circuit for Gates
CO3	Understand the concepts of sequential circuit.
CO4	Illustrate the basic input-output organization of computer, Asynchronous data transfer
CO5	Illustrate the Concepts of memory organization.

MAPPING WITH PROGRAMME OUTCOMES

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	20U1CACP03	Core 3 : C Programming - Practical	Batch	2020-2023
			Semester	1
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVES

- To enhance the students to learn field of C programming language with various techniques for enhance their analysis and problem solving techniques.
- To learn basic principles of objects, arrays and pointers for efficient implemenataion in real world problems.
- To gain skills to handle strings.
- To gain the knowledge of file operations.

COURSE OUTCOMES (CO)

Upon successful completion of this lab Course, student should be able to

CO Number	Statement
CO1	Understand the basic structure of C programming for declaring and usage of variables.
CO2	Find the solution for given problem by using time and memory complexity.
CO3	Solve the given problem by using the loop and decision making statements
CO4	Implementation of various file operations for a given application

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U1CAAT01	Allied 1: Numerical Methods and Statistics	**Batch**	2020-2023
Hrs/week	5		**Semester**	1
			Credits	4

COURSE OBJECTIVES

To enable the Students

- To understand the different Methods of solving numerical, algebraic and Transcendental Equations
- To find derivatives of various formulae and Integration using numerical differentiation and integrate various functions using numerical integration.
- To have a knowledge of finding numerical solutions of ordinary differential Equations.
- To learn how to calculate various statistical constants.
- To gain knowledge about Correlation and Regression

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Find Numerical Solution of Algebaric and Transcental Equations.
CO2	Solve Simultaneous Linear Algebraic Equations by using different methods.
CO3	Explain the methods of Numerical Differentiation, Integeration of various functions and finding Numerical Solution of Ordinary Differential Equation using different methods.
CO4	Calculate the Statistical Constants.
CO5	Explain the concepts of Correlation and Regression and their applications in practical situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓	-	-	-	-

SEMESTER - I

Programme Code :	ALL UG	Programme Title	**Bachelor of Computer Applications**	
Course Code:	20U1VBET01	Value Based Education 1: சுற்றுப்புறச் சூழல் அறிவியல்	Batch	2020 – 2023
Hrs/ Week	2 Hrs		Semester	I
			Credits	2

நோக்கம்

மாணவர்கள் பல்வேறுவகையான இயற்கை வளங்களை புரிந்துகொண்டு அதை பாதுகாப்பது தங்கள் பொறுப்பு என உணரச்செய்தல்

சூழ்நிலை மண்டலக் கோட்பாடுகள், சூழ்நிலை மண்டலத்தின் வகைகள், அதனை சிதைப்போர், பல்லுயிர் பெருக்கத்தின் பல்வேறு நிலைகளையும், அவற்றின் பாதுகாப்பினையும் மாணவர்களைப் புரிந்துகொள்ளச் செய்தல்.

பல வகையான சுற்றுச்சூழல் மாசுபாடுகளையும் அவற்றின் காரணங்கள், விளைவுகள், அவற்றை தடுப்பதில் மாணவர்களின் பங்களிப்பு ஆகியவற்றை மாணவர்களை உணரச்செய்தல்.

இயற்கைச் சீற்றங்களினால் ஏற்படும் பாதிப்பிலிருந்து தற்காப்புகள் பற்றிய விழிப்புணர்வை மாணவர்களுக்கு ஏற்படுத்துதல்.

சுற்றுச்சூழல் வளங்களை இயற்கைச் சீற்றங்களிலிருந்து பாதுகாப்பதன் அவசியத்தையும், அதற்கான சட்டங்களையும் எடுத்துக்கூறுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	சுற்றுப்புறச்சூழலில் உள்ள பல்வேறு வகையான இயற்கை வளங்களையும் அவற்றைப் பாதுகாப்பதும் தங்கள் பொறுப்பு என உணரச்செய்தல்.
CO2	சூழ்நிலை மண்டலக் கோட்பாடுகள், வகைகள் மற்றும் பல்லுயிர் பெருக்கத்தின் முக்கியத்துவத்தை உணர்ந்து கொள்ளுதல்.
CO3	பல்வேறு வகையான சுற்றுச்சூழல் மாசுபாடுகளையும் அவற்றின் காரணங்கள், விளைவுகள், அவற்றை தடுப்பதில் மாணவர்களின் பங்களிப்பு ஆகியவற்றை மாணவர்களை உணர்ந்து கொள்ளுதல்.
CO4	இயற்கைச் சீற்றங்களினால் ஏற்படும் பாதிப்பிலிருந்து தற்காப்புகள் பற்றிய விழிப்புணர்வை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	சுற்றுச்சூழல் வளங்களை பாதுகாப்பதன் அவசியத்தையும், அதற்கான சட்டங்களையும் மாணவர்கள் பின்பற்றுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER : I

Programme Code :	All I- Year UG Programmes	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U1NMET01	Non Major Elective 1 **: Food Science and Nutrition**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	2 Hrs		**Credits**	**2**

COURSE OBJECTIVE

- To understand the importance of Nutrition and the role of food in the maintenance of good health.
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	**CO Statement**
CO1	Identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about classification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
CO1	-	-	-	-	-	✓	-	-	-	✓	-
CO2	-	-	-	-	-	✓	-	-	-	✓	-
CO3	-	-	-	-	-	✓	-	-	-	✓	-
CO4	-	-	-	-	-	✓	-	-	-	✓	-
CO5	-	-	-	-	-	✓	-	-	-	✓	-

SEMESTER-I

Programme Code:	All I- Year UG	**Programme Title**	**Bachelor of Computer Applications**	
Course Code:	20U1SBST01	**Skill Based Subject 1: Mathematics for Competitive Examinations -I**	**Batch**	2020-2023
Hrs/ Week	2 Hrs		**Semester**	I
			Credits	1

COURSE OBJECTIVES

To enable the Students

- To understand the fundamental arithmetic skills and various methods of problem solving.
- To learn about the average and Problems on numbers.
- To solve problem related to Ages, Calander and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	**CO Statement**
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races, games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO 1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-

SEMESTER-I

Programme Code:	All I- Year UG	Programme Title	All I- Year UG	
Course Code:	20U1SBST02	Skill Based Subject 2: Communication Skills I	Batch	2020-2023
Hrs/ Week	2 Hrs		Semester	I
			Credits	1

COURSE OBJECTIVES:

1. To make the students to understand the barriers in their communication and the ways to overcome the same.
2. To make the students to know various types of listening and the effect of enhancing the listening skills.
3. To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	✓	-	-	-	-	-	-	-	✓	-	-	-
CO2	-	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	-

SEMESTER II

Programme Code :	ALL UG	Programme Title	All I- Year UG	
Course Code :	20U2TALT02	Language 1 : **Tamil – II**	Batch	2020-2023
			Semester	2
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO2	–	-	-	-	–	✓	✓	–	–	–	✓

SEMESTER-II

Programme Code :	**All I-Year UG Programmes**	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	**20U2ENLT02**	**Language 2- Functional English – II**	**Batch**	2020 - 2023
			Semester	II
Hrs/week	5 **Hrs**		**Credits**	3

COURSE OBJECTIVES:

1. To enable the students to understand the basic grammar in English.
2. To acquaint students with the structure and strategies of conversation
3. To make the students appreciate the significant works and style of prose
4. To develop the skills of speaking and writing without flaws.
5. To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO8**	**PO9**	**PO10**	**PO11**
CO1	-	-	-	-	-	-	-	-	-	✓	-
CO2	✓	-	-	-	-	-	✓	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-

SEMESTER II

Programme code:	**BCA**	**Programme Title**	**Bachelor of Computer Applications**	
Course code:	**20U2CACT04**	**Title: Core 4: C++ Programming**	**Batch:**	**2020-2023**
Hrs/week:	**5 Hrs**		**Semester:**	**II**
			Credits:	**4**

COURSE OBJECTIVES

- ✓ To provide knowledge on Object-Oriented Programming Concepts using C++.
- ✓ To learn the concepts of classes and objects.
- ✓ To learn about the concepts of operator overloading and Inheritance.
- ✓ To understand the basic concepts of pointers and functions.
- ✓ To enhance the students knowledge in the concepts of File Handling

COURSE OUTCOMES (CO)

CO Number	CO Statement
CO1	Explain the fundamental concepts of OOPS languages and control structures.
CO2	Elucidate on classes, functions and constructor.
CO3	Discuss in detail about types of inheritance and solving problems using the same.
CO4	Explain about Arrays and Pointers and their Functions.
CO5	Demonstrate on File Handling Mechanism.

MAPPING WITH PROGRAM OUTCOMES:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	✓	-	✓	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	✓	-	✓	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	✓	✓
CO4	-	✓	✓	✓	-	✓	-	✓	-	✓	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	✓

SEMESTER II

Programme code:	BCA	Programme Title	Bachelor of Computer Applications	
Course code:	20U2CACT05	Title: Core 5: Data Structures	Batch	2020-2023
Hrs/week:	4 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES

- To study about the design and implementation of the data structure and how the data are manipulated in order to develop an application and also helps the students in understanding the use of data structure in the real world.
- To make the students to understand the basic concepts of Data Structures and Algorithms.
- To understand the abstract data types stack, queue, dequeue, and list.
- To understand the performance of the implementations of basic linear data structures.
- To understand prefix, infix, and postfix expression formats.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recalls information for writing algorithms in solving problems.
CO2	Choose appropriate data structure as applied to specified problem definition.
CO3	Apply problem solving skills and provide a foundation for advanced programming courses using an object-oriented programming methodology.
CO4	Use linear and non-linear data structures like stacks, queues, linked list etc., and show operations like searching, insertion, deletion, traversing mechanism etc. on various data structures
CO5	Illustrate to store and retrieve data stored in both main memory and in secondary memory.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO 7	PO8	PO9	PO 10	PO1 1
CO1	-	✓	✓	✓	-	✓	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓

SEMESTER II

Programme Code	BCA	Programme Title	Bachelor of Computer Applications	
Course Code	20U2CACP06	Core 6 : C++ Programming - Practical	Batch	2020-2023
			Semester	II
Hrs/week	3 Hours		Credits	3

COURSE OBJECTIVES:

- To enable the students to gain knowledge in developing C++ Programs for certain specified problems.
- To develop the applications using C++ Programming language.
- To apply the concepts like looping, control statements arrays, function overloading and file concepts.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Write programs in C++ to demonstrate Classes and objects
CO2	Use various types of arrays and constructors
CO3	Apply the concepts of virtual functions and function overloading
CO4	Write programs in C++ using special functions, constructor and destructor.
CO5	Use the file handling concepts

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	✓	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	✓	✓
CO5	-	✓	✓	✓	-	✓	-	-	-		

SEMESTER II

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	20U2ITAT02	Allied 2 : Discrete Mathematics	Batch	2020-2023
			Semester	II
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

- To enable the Students to understand the concept of set theory, Logic and Relations
- To learn the concept of languages and Grammars
- To know the concept of Graph theory and its applications

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concepts of set theory, partition of sets, inclusion and exclusion principles.
CO2	Write an argument using logical notation and determine if the argument is valid or invalid.
CO3	Describe the binary relations between two sets and determine if the relation is partial order relation or equivalence relation using set operations.
CO4	Explain the concepts of formal languages and construct the finite state automata.
CO5	State the concept of graphs, enumerate the types of graphs and their applications practical situations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓	-	-	-	-

SEMESTER II

Programme Code :	**BCA**	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	**20U2NMET02**	**Non Major Elective 2 : Floriculture**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals & Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO 9	PO1 0	PO11
CO1	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	-	-	-	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	✓	-

SEMESTER II

Programme Code	BCA	Programme Title	Bachelor of Computer Applications	
Course Code	20U2VBET03	Value Based Education 2: Ethics and Culture **	Batch	2020-2023
			Semester	II
Hrs/week	2		Credits	1

Ethics and Culture (மனிதவள மாண்பு - தனிமனித விழுமியங்கள்இசமுதாய விழுமியங்கள்)

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்இ குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டுஇ சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	✓	✓	-	-	✓	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	20U2SBST03	Skill Based Subject 3 : Mathematics for Competitive Examinations -II	Batch	2020-2023
			Semester	II
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

- To enable the Students to know about concept of Interest and Profit and loss.
- To know about methods of calculation concept of Interest and Profit and loss.
- To develop the ability in solving problems involving Permutation , Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-

SEMESTER – III

Programme code:	BCA	**Programme Title**	Bachelor of Computer Applications	
Course code:	20U3CACT07	**Core 7:** Operating Systems	**Batch**	2020-2023
Hrs/Week	5 Hrs		**Semester**	III
			Credits	4

COURSE OBJECTIVES:

- To gain knowledge on OS concepts and functioning of modern OS.
- To understand the structure of OS , process and Inter process Communications
- To understand the deadlock & Memory management concepts

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO	CO Statement
CO1	Define the concepts of operating systems and security
CO2	Explain operating system structure, process and threads
CO3	Illustrate Inter process Communication and scheduling
CO4	Describe deadlock and deadlock prevention
CO5	Explain memory management, file systems and directories

MAPPING WITH PROGRAMME OUTCOMES

COs/P	PO	PO	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO11
CO1	-	✓	✓	✓	-	✓	-	-	-	-	✓
CO2	-	✓	✓	✓	-	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	✓
CO5	-	✓	✓	✓	-	-	-	-	-	-	✓

SEMESTER – III

Programme code:	BCA	Programme Title	Bachelor of Computer Applications	
Course code:	20U3CACT08	**Core 8:** Java Programming	**Batch**	2020-2023
Hrs/Week	5 Hrs		**Semester**	III
			Credits	4

COURSE OBJECTIVES

- To understand fundamentals of object – oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.
- To be able to use the Java SDK environment to create, debug and run simple Java programs.
- To understand the Java Programming concepts so as to enable the students of Applications and Applets using Java

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Define the basic concepts of Object oriented programming
CO2	Explain the loops and decision making statements to solve the problem
CO3	Describe the concepts of threads and string
CO4	Discuss about the Applet programming
CO5	Apply about the different operations on files

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	-	✓

SEMESTER – III

Programme code:	BCA	**Programme Title**	Bachelor of Computer Applications	
Course code:	20U3CACT09	**Core 9: Data Communications and Networks**	**Batch**	2020-2023
Hrs/Week	6 Hrs		**Semester**	III
			Credits	4

COURSE OBJECTIVES:

- To comprehend the use of different types of transmission media and network devices.
- To understand the concepts of flow control, error control and LAN protocols.
- To understand the functions performed by Network Management System.

COURSE OUTCOMES (CO)

On successful completion of thecourse, students will be able to

CO Number	CO Statement
CO1	Define the various concepts of Network models
CO2	Explain the basics of physical layer and data transmission
CO3	Explain the data link layer controls
CO4	Use communication primitives in the network layer
CO5	Examine the transport layer and application layer

MAPPING WITH PROGRAMME OUTCOMES

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓

SEMESTER – III

Programme code:	BCA	Programme Title	Bachelor of Computer Applications	
Course code:	20U3CACP10	**Core 10:** Java Programming - Practical	**Batch**	2020-2023
Hrs/Week	6 Hrs		**Semester**	III
			Credits	3

COURSE OBJECTIVES:

- To enhance the students to learn field of java programming language with various techniques for enhance their analysis and problem solving techniques
- To learn basic principles of threads, applets and files for efficient implementation in real world problems.

COURSE OUTCOMES (CO)

Upon successful completion of this lab Course, student will be able to

CO Number	Statement
CO1	Understand the basic structure of java programming for declaring and usage of variables.
CO2	Choose the loop and decision making statements to solve given problem
CO3	Design the program using applets
CO4	Implementation of various file operations for a given application

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	-	✓

SEMESTER III

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Application	
Course Code :	20U3CAAT03	**Allied 3:** Operations Research	**Batch**	2020-2023
			Semester	III
Hrs/week	5		**Credits**	4

COURSE OBJECTIVES

To enable the Students

1. To Know Operation Research and LPP, solving LPP
2. To solve transportation and assignment problems
3. To acquire knowledge of queueing theory, PERT and CPM

COURSE OUTCOMES

CO Number	CO Statement
CO1	Define Operations Research, Linear Programming Problem and explain the methods of solving Solution of LPP using Graphical Method simplex method and Big M method
CO2	Solve Transportation and Assignment problems
CO3	Explain the concepts of Game Theory
CO4	Study the concepts of Queueing theory and solving simple problems
CO5	Know distinction between PERT & CPM

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	-	✓	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-
CO4	-	-	✓	✓	-	✓	-	-	✓	✓	✓
CO5	-	-	✓	✓	-	✓	-	-	-	✓	✓

SEMESTER III

Programme Code :	BCA	Programme Title:	Bachelor of Computer Applications	
Course Code :	20U3SBST05	**Skill based subject 5:** Mathematics for competitive Examinations III	**Batch**	2020-2023
			Semester	III
Hrs/week	2		**Credits**	1

COURSE OBJECTIVES

To enable the Students

- To make the students to know the concept of Pipes, Cistern and Probablity.
- To solve problem related to Problems on Boats and Streams .
- To make the students to know the concept of Alligation or mixture,Problem of Heights and distance,odd man out series.

COURSE OUTCOME (CO)

CO Number	CO Statements
CO1	Several tricks and formulas for pipes and cisterms are available which reduces the effort to solve the problem.
CO2	Solve the problems on time and distance train, boats and stream.
CO3	Apply the concept of Alligation and height & distance to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	-	✓	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-

SEMESTER-III

Programme Code:	BCA	Programme Title	Bachelor of Computer Applications	
Course Code:	20U3SBST06	**Skill Based Subject 6 :** Communication Skills- III	Batch	2020-2023
			Semester	III
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES:

1. To make the students to understand the barriers in their communication and the ways to over come the same

2. To make the students to know various types of listening and the effect of enhancing the listening skills

3. To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listining and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs/ POs	**PO1**	**PO2**	**PO3**	**PO4**	**PO 5**	**PO6**	**PO7**	**PO 8**	**PO9**	**PO10**	**PO11**
CO1	✓	-	-	✓	-	✓	-	-	-	-	-
CO2	✓	-	-	✓	-	✓	-	-	-	-	-
CO3	✓	-	-	✓	-	✓	-	-	-	-	-

SEMESTER: III

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	-	Value Based Education 3 : Yoga for Youth Empowerment	Batch	2020-2023
			Semester	III
Hrs/week	2 Hrs		Credits	-

COURSE OBJECTIVES

- To Provide the value Education and improve the students good character
- To understand the yogic life and physical health
- To maintain youthfulness and moderation in five aspects of life
- To enable the students concentration and personality development
- To understand the law of nature and yogasanas

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Understand the Philosophy of life science
CO2	Understand the core Human Values in environment.
CO3	Develop a sense of community responsibility in the larger social context.
CO4	Develop the Physical Health by understanding yogasanas with practical sessions

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO8	PO 9	PO 10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	Programme Title	Bachelor of Computer Applications	
Course Code :	20U3BTLT01	Non Credit Course 1 : Basic Tamil I :அடிப்படைத் தமிழ்	Batch	2020-2023
			Semester	III
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும் நோக்கம் :

- தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
- சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
- தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
- வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

COs /POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	Bachelor of Computer Applications	
Course Code :	**20U3ATLT01**	Advanced Tamil I: சிறப்புத் தமிழ்	**Batch**	2020-2023
			Semester	III
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO11
CO1	-	-	-	-	-	✓	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-

SEMESTER - III

Programme Code:	B.C.A	Programme Title	Bachelor of Computer Applications	
Course Code:	20U3SSCT1A	Self Study Course 1: Manitha Vazhklayum Gandhiadigalum** மனித வாழ்க்கையும் காந்தியடிகளும்ழூழ	Batch	2020-2023
			Semester	3
Hours/ Week	-		Credits	1

நோக்கம்

1. மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
2. இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
3. மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
4. நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
5. காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER - III

Programme Code :	ALL UG	Programme Title	Bachelor of Computer Applications	
Course Code:	20U3SSCT 1B	Self study Course – III இந்திய விடுதலைப் போரில் வ.உ.சி	Batch	2020 - 2023
Hrs/ Week	-		Semester	3
			Credits	1

நோக்கம்

1. வ.உ.சி யின் இளமைப் பருவம்ருபவ் கல்விருபவ் தொழில்ருபவ் வாழ்க்கை முறை பற்றி மாணவர்கள்
   அறிதல்.
2. சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம்ருபவ் முக்கியத்துவத்தை அறிதல்.
3. வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும்ருபவ் தன்னலமற்ற பொது வாழ்க்கைக்காக
   அவர் செய்த தியாக உணர்வை அறிதல்.
4. வ.உ.சி யின் தமிழ்ப்பற்றுருபவ் தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
5. விடுதலைப் போராட்டத்தில் வ.உ.சிருபவ் அவரது காலத்தில் சிறைக் கைதிகளின் நிலைருபவ் செட்டி
   நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூயஅின்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்குருபவ் ஏற்பட்ட தடைகள்ருபவ் முயற்சிகளில் வெற்றி பெறுதல்ருபவ் நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கைருபவ் ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம்ருபவ் விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்றுருபவ் மொழிக்காக அவரது செயல்பாடுருபவ் தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கைருபவ் பெண்கள் மீதான வ.உ.சி யின் பார்வைருபவ் இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO 2	PO3	PO 4	PO5	PO 6	PO 7	PO 8	PO 9	PO 10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER - III

Programme Code :	**ALL UG**	**Programme Title**	Bachelor of Computer **Applications**	
Course Code:	**20U3SSCT1C**	**Self study Course – III** **நேதாஜியின் வீர வரலாறு**	**Batch**	**2020 - 2023**
Hrs/ Week	**-**		**Semester**	**3**
			Credits	**1**

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.
5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER - III

Programme Code :	ALL UG	Programme Title	Bachelor of Computer Applications	
Course Code:	20U3SSCT1D	Self study Course – III A.P.J.Abdul Kalamin Vaalkai Varalaaru** அக்னிச் சிறகுகள	Batch	2019 - 2022
Hrs/ Week	-		Semester	3
			Credits	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும்

   தேசப்பற்றை வளர்த்தல்
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்
5. ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER - III

Programme Code :	ALL UG	Programme Title	Bachelor of Computer Applications	
Course Code:	20U3SSCT1E	Self study Course – I E.V.R Periyarin Vaalkai Varalaaru** ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்	Batch	2020 - 2023
Hrs/ Week	-		Semester	3
			Credits	1

நோக்கம்

1. பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.
2. நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.
3. அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.
4. பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.
5. சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓

SEMESTER IV

Programme Code:	BCA	Programme Title	Bachelor of Computer Applications	
Course Code:	20U4CACT11	**Core 11:** Web Designing	**Batch**	2020-2023
			Semester	IV
Hrs/ Week	5		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To get practiced with creating the schemas and XML Document.
- To acquire knowledge on creating web page to deploy the web applications.
- To understand scripting language in java & VB.

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Define the basic concepts of Internet technologies
CO2	Explain the style sheets and its common tasks
CO3	Define the features of XML and compatibility
CO4	Define XML structures, tags and their elements
CO5	Define the concepts of java script and operators, objects, events

MAPPING WITH PROGRAMME OUTCOMES

COs/	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO11
CO1	-	✓	✓	-	-	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓

SEMESTER IV

Programme code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course code:	20U4CACT 12	**Core 12 :** SYSTEMS ANALYSIS AND DESIGN	**Batch**	2020-2023
Hrs/week	5		**Semester**	IV
			Credits	3

COURSE OBJECTIVES

To enable the students

- To gather data to analyse and specify the requirements of a system.
- To design system components and environments..
- To build general and detailed models that assist programmers in implementing a system. .
- To design a database for storing data and a user interface for data input and output, as well as controls to protect the system and its data.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand the principles and tools of systems analysis and design
CO2	Solve a wide range of problems related to the analysis, design and construction of information systems
CO3	Apply Project Management and Requirement analysis,Principles to S/W project development.
CO4	Analyze the cost estimate and problem complexity using various Analyze estimation techniques
CO5	Plan and undertake a major individual project, prepare and deliver coherent and structured verbal and written technical reports

MAPPING WITH PROGRAMME OUTCOMES

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER IV

Programme Code	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code	**20U4CACT13**	Core 13: Computer Graphics and Multimedia	**Batch**	2020-2023
			Semester	**IV**
Hrs/week	5		**Credits**	3

Course Objectives:

- To provide knowledge to the students on the basic concepts of computer graphics.
- To appreciate the importance of technical ability and creativity within design practice.
- To become familiar with Blender Graphics, Photoshop editing, CorelDraw.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concepts of output primitives, Outline of the graphics system.
CO2	Understand different types of Multimedia File Format, Technologies and Standards
CO3	Design Basic 3d Scenes using Blender
CO4	Apply tools for designing visiting cards, letterheads, envelope design, greetings designs invitation cards etc.
CO5	To analyze different aspects of letter format and graphics

MAPPING WITH PROGRAMME OUTCOMES

CO/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	✓	✓	-	-	-	✓	✓	✓
CO4	-	✓	✓	✓	-	-	-	-	-	✓	✓
CO5	-	-	✓	✓	-	✓	-	-	-	✓	✓

SEMESTER IV

Programme code:	BCA	**Programme Title**	Bachelor of Computer Applications	
Course code:	20U4CACP14	CORE 14 : WEB DESIGINING PRACTICAL	**Batch**	2020-2021
Hrs/week:	6 Hrs		**Semester**	4
			Credits	3

COURSE OBJECTIVES:

- To enhance the students to learn field of web designing programming language with various techniques for enhance their web page developing techniques.
- To learn basic concepts of html, css and xml.

COURSE OUTCOMES (CO)

Upon successful completion of this lab Course, student should be able to

CO Number	Statement
CO1	Illustrate web page development and designing with use of html
CO2	Use Event Handling Functions
CO3	Apply the concept of java script in html
CO4	Apply the basic concept of XML
CO5	Develop a website.

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	✓	-	✓	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓
CO4	-	✓	✓	-	✓	✓	-	✓	-	-	✓
CO5	-	✓	✓	-	✓	✓	-	✓	-	-	✓

SEMESTER – IV

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U4CAAT04	Allied 4:Business Accounting	**Batch**	2020-2023
			Semester	V
Hrs/week	6		**Credits**	4

COURSE OBJECTIVES:

- To make the students understand the basic accounting concept and conventions.
- To enlighten the students on the importance of cost ascertainment reductionand control.
- To enable the students to understand the preparation of budgets in the business organizations.

COURSE OUTCOMES (CO)

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	Statement
CO1	Explain the basic accounting principles and the procedure to prepare journal and ledger
CO2	Prepare a Final accounts of Sole Trading concern.
CO3	Prepare a cost sheet with adjustments
CO4	Explain the concept of financial accounting and cost accounting.
CO5	Prepare a cash budget and sales budget

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	✓

SEMESTER IV

Programme Code :	BCA	**Programme Title:**	Bachelor of Computer Applications	
Course Code :	20U4SBST07	Skill Based Subject 7: Mathematics for Competitive Examinations IV	**Batch**	2020-2023
			Semester	IV
Hrs/week	2 Hours		**Credits**	1

COURSE OBJECTIVES

To enable the Students

- To make the students to know the concept of Problems of Interest andVenn Diagrams
- To solve problem related to Problems on Sequence and series.
- To develop the skills in solving problems in Mental Ability and Logical reasoning.

COURSE OUTCOME (CO)

CO NO	CO Statements
C01	Explicate the concept of finance and discover the inference using Venn- diagram.
C02	Solve the problems on logarithms,area,Volume, Sequence and series.
C03	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	✓	-	✓	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-

SEMESTER-IV

Programme Code:	BCA	Programme Title	Bachelor of Computer Applications	
Course Code:	20U4SBST08	Skill Based Subject 8: Communication Skills- IV	Batch	2020-2023
			Semester	IV
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES:

1.To know clearly the use of various symbols for pronunciating the words with proper sounds.

2. To make aware of various techniques of reading and writing different reports.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To be able to prounuce the words clearly with proper pronunciation.
CO2	Read the given materials properly and to write meaningful reports

MAPPING WITH PROGRAMME OUTCOMES

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	✓	-	-	✓	-	✓	-	-	-	-	-
CO2	✓	-	-	✓	-	✓	-	-	-	-	-
CO3	✓	-	-	✓	-	✓	-	-	-	-	-

SEMESTER IV

Programme Code :	BCA	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	**20U4VBET03**	**Value Based Education 3 :** Yoga for Youth Empowerment	**Batch**	2020-2023
			Semester	IV
Hrs/week	2 Hrs		**Credits**	4

COURSE OBJECTIVES

- To Provide the value Education and improve the students good character
- To understand the yogic life and physical health
- To maintain youthfulness and moderation in five aspects of life
- To enable the students concentration and personality development
- To understand the law of nature and yogasanas

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	Understand the Philosophy of life science
CO2	Understand the core Human Values in environment.
CO3	Develop a sense of community responsibility in the larger social context.
CO4	Develop the Physical Health by understanding yogasanas with practical sessions

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	**PO 1**	**PO 2**	**PO3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO8**	**PO 9**	**PO 10**	**PO 11**
CO1	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	-	-	-	-	-	✓	-	-	✓
CO4	-	-	-	-	-	-	-	✓	-	-	✓

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	20U4BTLT02	Non Credit Course 2: Basic Tamil-II : அடிப்படைத் தமிழ் #	**Batch**	2020-2023
			Semester	IV
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும் நோக்கம்:

- ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.
- தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.
- தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.
- தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்ககை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO11
CO1	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓
CO4	✓	-	✓	-	-	-	-	-	-	-	-

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	**Bachelor of Computer Applications**	
Course Code :	20U4ATLT02	Advanced Tamil-II : சிறப்புத் தமிழ்	**Batch**	2020-2023
			Semester	IV
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும் நோக்கம்:

- இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.
- திருக்குறளின் சிறப்பை அறியச் செய்தல்.
- சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.
- பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.
- மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபுபிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO5	PO 6	PO 7	PO 8	PO9	PO 10	PO11
CO1	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-
CO5	-	-	-	-	-	-	✓	-	✓	✓	-

SEMESTER – IV

Programme Code:	BCA	Programme Title	Bachelor of Computer Applications	
Course Code:	20U4SSCT2A	Self Study Course 2: Women Rights**	Batch	2020-2023
			Semester	IV
Hours/ Week	-		Credits	1

COURSE OBJECTIVES :

- To make the women students understand the legal systems, constitutional frame work and human rights in India.
- To understand and appreciate the women's claims to land and their right to property.
- To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
- To give a knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	**All II UG Courses**	**Programme Title**	**Bachelor of Computer Applications**	
Course Code:	**20U4SSCT2B**	**Self Study Course 2:** Introduction To Constitution Of India	**Batch**	2020-2023
			Semester	IV
Hrs/ Week	-		**Credits**	1

COURSE OBJECTIVES:

- To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	Impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	For understand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO6**	**PO 7**	**PO8**	**PO9**	**PO10**	**PO11**
CO1	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-		

SEMESTER- IV

Programme Code:	All II UG Courses	Programme Title	Bachelor of Computer Applications	
Course Code:	20U4SSCT2C	Self Study Course 2: HUMAN RIGHTS**	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

- To prepare for responsible citizenship with awareness of the relationship between Human Rights,democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Develop skills on human rights advocacy.
CO2	Appreciate the relationship between rights and duties.
CO3	Foster respect for tolerance and compassion for all living creature.
CO4	Create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	All II UG Courses	Programme Title	Bachelor of Computer Applications	
Course Code:	20U4SSCT2D	Self study course 2: CONSUMER AFFAIRS**	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

- To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	Comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO 1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	-	-	-	-	-	-	✓	✓	-	-
CO2	-	-	-	-	-	-	-	✓	✓	-	-

SEMESTER – V

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U5CACT15	**Core 15**. ASP.Net and C# Programming	**Batch**	2020-2023
			Semester	V
Hrs/week	5		**Credits**	4

COURSE OBJECTIVES

To enable the students

- To learn about the basic concepts of ASP .NET.
- To learn about the ASP .NET object model and its architecture.
- To learn about the C# and its functions.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand about ASP.Net environment and its applications.
CO2	Know about the various forms in Visual Basic and Session controls.
CO3	Write various applications using C# Language in the .NET Framework.
CO4	Develop distributed applications using .NET Framework.
CO5	Create various applications using C#.Net framework

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
CO1	-	✓	✓	-	-	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓

SEMESTER V

Programme Code :	BCA	Programme Title	Bachelor of Computer Applications	
Course Code :	20U5CACT16	Core 16: Relational Database Management System	Batch	2020-2023
Hrs/week	5		Semester	V
			Credits	4

COURSE OBJECTIVES

On Completion of this Course

- To understand the concepts of RDBMS.
- To have knowledge on DBMS & RDBMS.
- To enhance their on SQL, DDL, DML, DCL Statements, Select, group by and having clause. String and set operations, Aggregate Functions, Nested Sub Queries.
- Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describe the fundamental elements of relational database management systems
CO2	Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.
CO3	Use SQL query structure and modify the table
CO4	Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS.
CO5	Demonstrate programming PL/SQL including procedures, stored functions, cursors, packages.

MAPPING WITH PROGRAM OUTCOMES

COs/POs	PO1	PO2	PO3	PO 4	PO5	PO6	PO 7	PO8	PO 9	PO1 0	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER V

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U5CACP17	Core 17 : ASP .NET AND C# - PRACTICAL	**Batch**	2020-2023
			Semester	V
Hrs/week	6		**Credits**	3

Course Objectives

To enable the students to gain knowledge about the teaching methodologies useful for the implementation and console based application and web based application.

Course Outcomes (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Design, create, build, and debug arithmetic operations for displaying numeric output using .NET applications.
CO2	Developing a console application in ASP .NET.
CO3	Compute different operations using looping statements.
CO4	Developing applications using C#

MAPPING WITH PROGRAM OUTCOMES

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER V

Programme code:	BCA	**Programme Title**	Bachelor of Computer Applications	
Course code:	20U5CACP18	CORE 18 : RELATIONAL DATABASE MANAGEMENT SYSTEM PRACTICAL	**Batch**	2020-2023
Hrs/week:	6 Hrs		**Semester**	4
			Credits	3

COURSE OBJECTIVES:

To enable the students

- To the Implementation of RDBMS commands such as DDL, DML, and DCL.
- To know the learners in SQL,PL/SQL programming based on concept learned with program course.

COURSE OUTCOMES (CO)

Upon successful completion of this lab Course, student should be able to

CO Number	Statement
CO1	Identify the operators, basic commands, built-in functions in SQL
CO2	Implement RDBMS concept in developing simple applications using PL/SQL

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO1 0	PO11
CO1	-	✓	✓	-	-	✓	-		-	-	✓
CO2	-	✓	✓	-	-	✓	-		-	-	✓
CO3	-	✓	✓	-	-	✓	-		-	-	✓
CO4	-	✓	✓	-	-	✓	-		-	-	✓
CO5	-	✓	✓	-	-	✓	-		-	-	✓

SEMESTER-V

Programme Code :	BCA	**Programme Title**	Bachelor of Computer Applications	
Course Code :	20U5NCCT01	**Non Credit Course 1 :** Aptitude and Soft Skills I	**Batch**	2020-2023
			Semester	V
Hrs/week	3 Hours		**Credits**	-

COURSE OBJECTIVES

To enable the Students

1. To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.

2. To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.

3. To know about improving various soft skills required while working in a team.

4. To understand the various methods of solving problems involving numerical and logical reasoning.

5. To understand the methods of solving certain problems not using calculations but using only mental ability.

6. To know how to face the personal interview effectively.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
CO1	Apply the inter personal and problem solving skills in the placement drive.
CO2	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
CO3	Grasp the approaches and strategies to solve problems with speed and accuracy.
CO4	Ability to reason critically by analyzing , elevating and extending arguments.
CO5	Explain the concepts deal with graphs, tables, number sequence and texts.

APPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-

Kovai Kalaimagal College of Arts and Science

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Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE OUTCOMES (CO)

B.SC(IT)

For the Students Admitted in the Academic year 2020-2021.

SEMESTER I

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1TALT01**	**Language 1: Tamil – I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hours**		**Credits**	**3**

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	✓	✓	-	✓	-	-	✓	-
CO3	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER I

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1HILT01**	**Language 1:Hindi I**	**Batch**	**2021-2022**
			Semester	**I**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO) On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER I

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1MLLT01**	**Language 1: Malayalam I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO) On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Help the learners to learn other Indian languages like Sanskrit,Tamil etc., through Malayalam without much effort.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER-I

Programme Code	B.Sc.IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U1ENLT01	Language 2- Functional English – I	Batch	2020-2023
			Semester	I
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose.
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER I

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1ITCT01**	**Core 1: C Programming with Problem Solving Techniques**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**4 Hours**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the Students to provide the knowledge on problem solving techniques and algorithm
  fundamentals and skills that can be applied to the problems in other areas.
- To clearly understand decision making and branching concepts with various statements.
- To know about the concept of arrays, strings and functions with its various operations.
- To learn about the concept of structure, pointers and file management.
- To know about the Basic Flow Chart design and represents algorithm workflow.

COURSE OUTCOMES (CO)

On the successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the basic concepts of Problem solving and algorithms
CO2	Explain the loops and decision making statements to solve the problem
CO3	Apply different operations on arrays
CO4	Use functions to solve the given problem
CO5	Discuss about file system and operations on files

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	-	-	-	-	✓	-	✓

SEMESTER I

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U1ITCT02**	**Title :Core 2: Digital Fundamentals and Architecture**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To provide a knowledge about the concepts of Computer Fundamentals and enable the students to understand Digital Logic Circuits and Gates.
- To know about number system and binary codes.
- To understand the basics of combinational logic circuits and its operations.
- To know about the sequential circuits and its designing architecture.
- To know about the input -output and memory organizations.

COURSE OUTCOMES (CO):

On the successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Apply the principles of number system, binary codes and Boolean algebra to minimize logic expressions
CO2	Acquire knowledge about various logic gates and logic families and analyze basic circuits of these families
CO3	Develop K-maps to minimize and optimize logic functions up to 5 variables
CO4	Demonstrate computer architecture concepts related to design of modern processors, memories and I/Os.
CO5	Evaluate various design alternatives in processor organization

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO2	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO3	-	✓	✓	✓	-	-	-	-	-	✓	-	
CO4	-	✓	✓	✓	-	-	-	-	-	✓	-	-
CO5	-	✓	✓	✓	-	-	-	-	-	✓	-	-

SEMESTER I

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1ITCP03**	**Core 3: C Programming - Practical**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**3 Hours**		**Credits**	**3**

COURSE OBJECTIVES:

- To enable the students to gain knowledge in developing C Programs for certain specified problems.
- To develop the applications using C Programming language.To apply the concepts like looping, functions, pointers and file types.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Write programs using various data types in C.
CO2	Use various operators and expressions.
CO3	Apply the concept of Arrays, Pointers and strings
CO4	Apply the concept of loops and functional programming
CO5	Use the file handling concepts for maintaining record.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER I

Programme Code :	**B.Sc. IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code :	**20U1ITAT01**	**Allied 1:Numerical Methods and Statistics**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES:

- To enable the Students
- To understand the different Methods of solving numerical, algebraic and Transcendental Equations.
- To find derivatives using various formulae using numerical differentiation and integrate various functions using numerical integration.
- To have a knowledge of finding numerical solutions of ordinary differential Equations.
- To learn how to calculate various statistical constants.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Find Numerical Solution of Algebaric and Transcental Equations.
CO2	Solve Simultaneous Linear Algebraic Equations by using different methods.
CO3	Explain the methods of Numerical Differentiation, Integeration of various functions and finding Numerical Solution of Ordinary Differential Equation using different methods.
CO4	Calculate the Statistical Constants.
CO5	Explain the concepts of Correlation and Regression and their applications in practical situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER - I

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code:	**20U1VBET01**	**Title :**Value Based Education 1 -Environmental Studies **	**Batch**	**2020-2023**
			Semester	**I**
Hrs/ Week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation
- To make the students know on various types of environmental pollution, their causes , effects, their prevention and the students role in the same.
- To make the students to know about the various eco sysytem.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	**CO Statement**
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make the others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER I

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U1NMET01**	**Non Major Elective1 : Food Science and Nutrition**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2 Hours**		**Credits**	**2**

COURSE OBJECTIVE

- To understand the importance of Nutrition and the role of food in the maintenance of good health
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety

CO Number	CO Statement
CO1	identify the properties of various food components
CO2	Explain the role of nutrition in the maintenance of good health
CO3	Explain about classification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme Code :	**B.Sc IT**	**Programme Title**	Bachelor of Science Information Technology	
Course Code :	**20U1SBST01**	**Skill Based Subject 1 :** Mathematics for Competitive Examinations -I	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES

- To enable the Students
- To understand the fundamental arithmetic skills and various methods of problem solving.
- To learn about the average and Problems on numbers.
- To solve problem related to Ages, Calander and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races, games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER-I

Programme Code:	**B.Sc IT**	**Programme Title**	Bachelor of Science (Information Technology)	
Course Code:	**20U1SBST02**	**Skill Based Subject 2: Communication Skills- I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/ Week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to over come the same.
- To make the students to know various types of listening and the effect of enhancing the listeningskills **.**
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained.

COURSE OUTCOMES (CO):

On Successful completion of the course the students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	✓	-	-	-
CO2	-	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	-

SEMESTER II

Programme Code	B.Sc.IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code	20U2TALT02	Language 1: Tamil - II	Batch	2020-2023
			Semester	II
Hrs/week	5 Hours		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	✓	✓	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER II

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code	**20U2FRLT02**	**Language 1: French II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to understand the basic structure of French language.

COURSE OUTCOMES (CO) On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	have access to the works of great french writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code	**20U2HILT02**	**Language 1: Hindi II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO) On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U2MLLT02**	**Language 2: Malayalam II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO) On Successful Completion of the course the students should be able to

CO Number	**CO Statement**
CO1	Help the learners to learn other Indian languages like Sanskrit,Tamil etc.,through Malayalam without much effort.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER-II

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U2ENLT02**	**Language 2-Functional English – II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/ Week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):
On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U2ITCT04**	**Core 4 : C++ PROGRAMMING**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**4 Hours**		**Credits**	**4**

COURSE OBJECTIVES:

- To provide knowledge on object oriented programming concepts using C++.
- To enable the students to provide an in-depth knowledge about the concepts of language structure, program divisions of C++ programming language.
- To enhance the knowledge about dynamic memory management.
- To gain the knowledge about polymorphism.
- To enhance the students knowledge in writing C++ programs and the concepts of File Handling.

COURSE OUTCOMES (CO):

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Describe the object oriented paradigm with concepts of streams, classes, functions, data and objects
CO2	Summarize relative merits of object oriented programming language & concepts.
CO3	Apply pointers, constructors, destructors in dynamic memory management.
CO4	Describe the concept of function overloading, operator overloading and virtual functions
CO5	Explain about exception handling and class templates.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER II

Programme Code	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code	20U2ITCT05	Core 5 : Data Structures	Batch	2020-2023
			Semester	II
Hrs/week	4 Hours		Credits	4

COURSE OBJECTIVES

- To study about the design and implementation of the data structure and how the data are manipulated in order to develop an application and also helps the students in understanding the use of data structure in the real world.
- To make the students to understand the basic concepts of Data Structures and Algorithms.
- To understand the abstract data types stack, queue, deque, and list.
- To understand the performance of the implementations of basic linear data structures.
- To understand prefix, infix, and postfix expression formats.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recalls information for writing algorithms in solving problems.
CO2	Choose appropriate data structure as applied to specified problem definition.
CO3	Apply problem solving skills and provide a foundation for advanced programming courses using an object-oriented programming methodology.
CO4	Use linear and non-linear data structures like stacks, queues, linked list etc., and show operations like searching, insertion, deletion, traversing mechanism etc. on various data structures
CO5	Illustrate to store and retrieve data stored in both main memory and in secondary memory.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER II

Programme Code	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code	20U2ITCP06	Core 6 :C++ Programming -Practical	Batch	2020-2023
			Semester	II
Hrs/week	3 Hours		Credits	3

COURSE OBJECTIVES:

- To enable the students to gain knowledge in developing C++ Programs for certain specified problems.
- To develop the applications using C++ Programming language.
- To apply the concepts like looping, control statements arrays, function overloading and file concepts.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Write programs in C++ to demonstrate Classes and objects
CO2	Use various types of arrays and constructors
CO3	Apply the concepts of virtual functions and function overloading
CO4	Write programs in C++ using special functions, constructor and destructor.
CO5	Use the file handling concepts

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓

SEMESTER II

Programme Code :	B.Sc. IT	Programme Title	Bachelor of Science Information Technology	
Course Code :	20U2ITAT02	Allied 2 : Discrete Mathematics	Batch	2020-2023
			Semester	II
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

- To enable the Students to understand the concept of set theory, Logic and Relations
- To learn the concept of languages and Grammars
- To know the concept of Graph theory and its applications

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concepts of set theory, partition of sets, inclusion and exclusion principles.
CO2	Write an argument using logical notation and determine if the argument is valid or invalid.
CO3	Describe the binary relations between two sets and determine if the relation is partial order relation or equivalence relation using set operations.
CO4	Explain the concepts of formal languages and construct the finite state automata.
CO5	State the concept of graphs, enumerate the types of graphs and their applications practical situations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO4	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO5	-	-	-	✓	✓	✓	✓	-	-	-	-	-

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	**B.Sc. IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code :	**20U2NMET02**	**Non Major Elective 2 : Floriculture**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals &Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code :	**B.Sc.IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U2SBST03**	**Skill Based Subject 3 :Mathematics for Competitive Examinations –II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hours**		**Credits**	**1**

COURSE OBJECTIVES

- To enable the Students to know about concept of Interest and Profit and loss.
- To know about methods of calculation concept of Interest and Profit and loss.
- To develop the ability in solving problems involving Permutation,Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO3	-	-	-	✓	✓	✓	✓	-	-	-	-	-

SEMESTER – III

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U3ITCT07**	**CORE 7: OPERATING SYSTEMS**	**Batch** **Semester**	**2020-2023** **III**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES:

- To gain knowledge on OS concepts and functioning of modern OS.
- To understand the different types of operating systems concepts like shell, Multi-Tasking / Time-sharing and Distributed Operating System.
- To understand the basic structure of OS , process and threads.
- To understand the deadlock & Memory management concepts.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basics of operating systems like kernel,shell, types and views of operating systems
CO2	Implement operating system functions.
CO3	Describe the various CPU scheduling algorithms and remove deadlocks
CO4	Explain various memory management techniques and concept of thrashing
CO5	Recognize file system interface, protection and security mechanisms.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U3ITCT08**	**CORE 8: JAVA PROGRAMMING**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES

- To introduce the OOP concepts and basic syntax of java.
- To provide knowledge on classes, inheritance, interfaces and packages.
- To make the students to understand exception handling and multithreading.
- To gain the knowledge on Input/Output concepts and applets.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain object oriented programming concepts of java.
CO2	Comprehend building blocks of OOPs language, inheritance, package and interfaces
CO3	Identify exception handling methods
CO4	Develop multithreading object oriented programs
CO5	Develop an object oriented program handling data file.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	✓	-	✓

SEMESTER – III

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U3ITCT09**	**Core 9: Microprocessor and ALP**	**Batch** **Semester**	**2020-2023** **III**
Hrs/week	**6 Hours**		**Credits**	**4**

COURSE OBECTIVES

- To make the students to have basic Knowledge and understanding of fundamental microprocessor architecture, and operating models.
- To understand various types of processors and data process using Microprocessor architectures
- Understand the programs to run on 8086 microprocessor based systems.
- Understand and devise techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the various types of processors and data process using Microprocessor architectures.
CO2	Explain the programs to run on 8086 microprocessor based systems.
CO3	Design system using memory chips and peripheral chips for 16 bit 8086microprocessor.
CO4	Discribe the devise techniques for faster execution of instructions, improve speed ofoperations and enhance performance of microprocessors.
CO5	Distinguish between RISC and CISC processors and understand multi core processor and its advantages

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	✓	-	✓	✓
CO2	-	✓	✓	-	-	-	-	-	✓	-	✓	✓
CO3	-	✓	✓	-	-	-	-	-	✓	-	✓	✓
CO4	-	✓	✓	-	-	-	-	-	✓	-	✓	-
CO5	-	✓	✓	-	-	-	-	-	✓	-	-	-

SEMESTER – III

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U3ITCP10**	**Core 10: Java Programming - Practical**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**6 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- Understand fundamentals of object – oriented programming in Java, including defining classes, invoking methods using class libraries.
- To be able to use the Java SDK environment to create, debug and run simple Java programs.
- To enable the students to gain knowledge in developing Java Programs for certain specified problems.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity.
CO2	Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem
CO3	Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.
CO4	Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
CO5	Identify and describe common user interface components to design GUI in Java using Applet

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	✓	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	✓	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	✓	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	✓	✓	-	-	-	✓

SEMESTER-III

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U3ITAT03**	**Allied 3: Operations Research**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES

To enable the Students

- To Know Operation Research and LPP, solving LPP
- To solve transportation and assignment problems
- To acquire knowledge of queueing theory,PERT and CPM

CO Number	CO Statement
CO1	Define Operations Research, Linear Programming Problem and explain the methods of solving Solution of LPP using Graphical Method simplex method and Big M method
CO2	Solve Transportation and Assignment problems
CO3	Explain the concepts of Game Theory
CO4	Study the concepts of Queueing theory and solving simple problems
CO5	Know distinction between PERT & CPM

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	-	✓	-	-	-	-	-	-
CO2	-	-	-	✓	-	✓	-	-	-	-	-	-
CO3	-	-	-	✓	-	✓	-	-	-	-	-	-
CO4	-	-	✓	✓	-	✓	-	-	-	✓	✓	✓
CO5	-	-	✓	✓	-	✓	-	-	-	✓	✓	✓

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U3BTLT01**	**Non Credit Course 1:** Basic Tamil-I வுவைடந :அடிப்படைத் தமிழ்	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம் :

1. தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
2. சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
3. தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
4. வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U3ATLT01**	**Non Credit Course 1:** Advanced Tamil -I Title : rpwg;Gj; jkpo;;	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்
நோக்கம்:

- மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER – III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code :	20U3SSCT1A	Self Study Course1:Manitha vaazhkaiyum Gandhiadigalum** மனித வாழ்க்கையும் காந்தியடிகளும்	Batch	2020-2023
			Semester	III
Hrs/week	-		Credit	1

நோக்கம்

1. மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
2. இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
3. மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
4. நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்துகொள்ளச் செய்தல்.
5. காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குாந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	-	✓

SEMESTER-III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U3SSCT1B	Self study Course – 1 V.O.Chidambaranarin vaazhkaiVaralaaru** இந்திய விடுதலைப் போரில் வ.உ.சி	Batch	2020– 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

1. வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
2. சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
3. வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
4. வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
5. விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER-III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U3SSCT1C	Self study Course – 1 Nethaji Subash Chandrabosin vaazhkai Varalaaru** நேதாஜியின் வீர வரலாறு	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.

2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.

3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.

4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.

6. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

7. பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U3SSCT1D	Self study Course –1 A.P.J.Abdul Kalamin vaazhkai Varalaaru**அக்னிச் சிறகுகள	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும் தேசப்பற்றை வளர்த்தல்
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்
5. ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-

CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U3SSCT1E	Self study Course – I E.V.R Periyarin vaazhkai Varalaaru** ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

1. பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.
2. நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.
3. அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.
4. பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.
5. சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code:	20U3SSCT1F	Self study Course – I Kamarajarin vaazhkai Varalaaru** காமராசர் ஓர் வழிகாட்டி	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

1. காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.
2. காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.
3. உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.
4. காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.
5. திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER – IV

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U4ITCT11**	**CORE 11 :RELATIONAL DATABASE MANAGEMENT SYSTEM**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hours**		**Credits**	**4**

Course Objectives

On Completion of this Course

- To understand the concepts of RDBMS.
- To have knowledge on DBMS & RDBMS.
- To enhance their on SQL, DDL, DML, DCL Statements, Select, group by and having clause String and set operations, Aggregate Functions, Nested Sub Queries.
- To develop the skills of Embedded and Dynamic SQL.

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the concept of Database and Database Design
CO2	Use the Commands and understand table
CO3	Use SQL query structure and modify the table
CO4	Describe about function, grouping and PL/SQL
CO5	Define the concept of Embedded SQL and PL/SQL

MAPPING WITH PROGRAM OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	
CO2	-	✓	✓	-	-	-	-	-	-	-	
CO3	-	✓	✓	-	-	-	-	-	-	-	
CO4	-	✓	✓	-	-	-	-	-	-	-	
CO5	-	✓	✓	-	-	-	-	-	-	-	

SEMESTER – IV

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U4ITCT12**	**CORE 12: SYSTEM ANALYSIS AND DESIGN**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students

- To understand the principles and tools of systems analysis and design
- To gather data to analyse and specify the requirements of a system.
- To design system components and environments..
- To build general and detailed models that assist programmers in implementing a system. .
- To design a database for storing data and a user interface for data input and output, as well as controls to protect the system and its data.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the principles and tools of systems analysis and design
CO2	Solve a wide range of problems related to the analysis, design and construction of information systems
CO3	Apply Project Management and Requirement analysis,Principles to S/W project development.
CO4	Analyze the cost estimate and problem complexity using various Analyze estimation techniques
CO5	Plan and undertake a major individual project, prepare and deliver coherent and structured verbal and written technical reports

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	-	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	✓	-	✓

SEMESTER – IV

Programme Code	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U4ITCT13**	**Core 13 :Data Communication and Networks**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hours**		**Credits**	**3**

COURSE OBJECTIVES:

To enable the students to

- Build an understanding of the fundamental concepts of computer networking.
- Understand the various networking modals
- Understand the functions of each layer of OSI Layer.
- Introduce the student to advanced networking concepts, preparing the student forentry Advanced courses in computer networking.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describe the components of a data communications system.
CO2	Identify key considerations in selecting various transmission media in networks.
CO3	Identify and define roles and features of various data transmission protocols.
CO4	Describe various error detection and correction schemes.
CO5	Summarize the features and functions of multiplexing and Network Security.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	√	√	-	-	-	-	-	-	√	√
CO2	-	-	√	-	-	-	-	-	-	-	√	√
CO3	-	√	√	-	-	-	-	-	-	-	√	√
CO4	-	√	√	-	-	-	-	-	-	-	√	√
CO5	-	√	√	-	-	-	-	-	-	-	√	√

SEMESTER – IV

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U4ITCP14**	**CORE 14: RelationalDatabase Management System -Practical**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**6 Hours**		**Credits**	**3**

On Completion of this Course

- To understand the concepts of RDBMS.
- To have knowledge on DBMS & RDBMS.
- To enhance their on SQL, DDL, DML, DCL Statements, Select, group by and having clause String and set operations, Aggregate Functions, Nested Sub Queries.
- To develop the skills of Embedded and Dynamic SQL.

Course Outcomes (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Understand the concept of Database and Database Design
CO2	Understand the Commands and tables
CO3	Demonstrate SQL query structure and modify the table
CO4	Demonstrate about function, grouping and PL/SQL
CO5	Demonstrate the concept of Embedded SQL and PL/SQL

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	-	-	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	-	-	✓	-	✓	-	✓

SEMESTER-IV

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U4ITAT04**	**ALLIED 4: BUSINESS ACCOUNTING**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**6 Hours**		**Credits**	**4**

COURSE OBJECTIVE

- To make the students understand the accounting principles, branches of accounting and journal, ledger and trial balance.
- To enable the students to prepare the final accounts.
- To enlighten the students of various methods of costing.
- To make the students to calculate the stock level and differtiate between cost, management and financial accounting.
- To provide knowledge on various types of budjets.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the basic Accounting concepts and the procedure to prepare journal and ledger.
CO2	Prepare Final Accounts of sole proprietor concern.
CO3	Prepare the cost sheet.
CO4	Calculate the Pricing of Material Issues.
CO5	Explain the Budgetary control system and prepare the various types of budgets.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	-	-	-	-	-	-	-	✓
CO2	-	-	-	✓	-	-	-	-	-	-	-	✓
CO3	-	-	-	✓	-	-	-	-	-	-	-	✓
CO4	-	-	-	✓	-	-	-	-	-	-	-	✓
CO5	-	-	-	✓	-	-	-	-	-	-	-	✓

SMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U4BTLT02**	**Non Credit Course 2 : Basic Tamil-II Title : அடிப்படைத் தமிழ்**	**Batch**	2020-2023
			Semester	IV
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.
- தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.
- தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.
- தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (ஊழரசளந ழுரவஉழஅந)

CO Number	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்கை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U4SSCT2A**	**Self Study Course 2: Women Rights****	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the women students understand the legal systems, constitutional frame work and human rights in India.
- To understand and appreciate the women's claims to land and their right to property.
- To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
- To give a knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U4SSCT2B**	**Self Study Course 2:** **An Introduction to Constitution of India****	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	Forunderstand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U4SSCT2C**	**Self Study Course 2: Human Rights****	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Develop skills on human rights advocacy.
CO2	Appreciate the relationship between rights and duties.
CO3	Foster respect for tolerance and compassion for all living creature.
CO4	Create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code:	**20U4SSCT2D**	**Self Study Course 2: CONSUMER AFFAIRS***	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER – V

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U5ITCT15**	**Core 15: ASP.Net and C#**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hours**		**Credits**	**4**

COURSE OBJECTIVES

To enable the students

- To learn about the basic concepts of ASP .NET.
- To learn about the ASP .NET object model and its architecture.
- To learn about the C# and its functions.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand about ASP.Net environment and its applications.
CO2	Know about the various forms in Visual Basic and Session controls.
CO3	Write various applications using C# Language in the .NET Framework.
CO4	Develop distributed applications using .NET Framework.
CO5	Create various applications using C#.Net framework

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-

SEMESTER V

Programme Code	B.Sc IT	Programme Title	Bachelor of Science Information Technology	
Course Code	20U5ITCT16	Core 16: PHP & MySQL	Batch	2020-2023
			Semester	V
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

- Develops skills to create server-side scripts using PHP. Introduces server-side programming concepts and terminology. Explores a variety of server-side techniques and MySQL database manipulation.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Describe and use the features and syntax of programming language PHP
CO2	Create, translate, and process HTML information using the Common Gateway Information (CGI) protocol.
CO3	Apply PHP code to produce outcomes and solve problems.
CO4	Display and insert data using PHP and MySQL. Retrieve, insert, update, and delete data from the relational database MySQL
CO5	Test, debug, and deploy web pages containing PHP and MySQL.

MAPPING WITH PROGRAMME OUTCOMES

Cos/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	✓	✓	-	✓	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	-	-	-	-	-	-
CO4	✓	✓	✓	-	✓	✓	-	-	-	-	-
CO5	-	✓	✓	-	✓	✓	-	-	-	-	-

SEMESTER -V

Programme Code :	B.SC IT	Programme Title	Bachelor of Science Information Technology	
Course Code :	20U5ITCP17	Core 17 : ASP .NET AND C# - PRACTICAL	Batch	2020-2023
			Semester	V
Hrs/week	6 Hours		Credits	3

COURSE OBJECTIVES

To enable the students to gain knowledge about the teaching methodologies useful for the implementation and console based application and web based application.

COURSE OUTCOMES (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Design, create, build, and debug arithmetic operations for displaying numeric output using .NET applications.
CO2	Developing a console application in ASP .NET.
CO3	Compute different operations using looping statements.
CO4	Developing applications using C#

MAPPING WITH PROGRAM OUTCOMES

COs/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER -V

Programme Code	B.Sc IT	Programme Title	Bachelor of Science Information Technology	
Course Code	20U5ITCP18	CORE 18: PHP AND MY SQL -PRACTICAL	Batch	2020-2023
			Semester	V
Hrs/week	6 Hours		Credits	3

COURSE OBJECTIVE

To enable the students to gain knowledge in developing PHP and MySQL Programs for certain specified problems.

COURSE OUTCOMES (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Write PHP code to produce outcomes and solve problems.
CO2	Display and insert data using PHP and MySQL.
CO3	Test, debug, and deploy web pages containing PHP and MySQL.

Mapping With Programme Outcomes

CO/ Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER –VI

Programme Code :	B.Sc IT	Programme Title	Bachelor of Science Information Technology	
Course Code :	20U6ITCT19	Core 19: Fundamentals of Python Programming	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hours		Credits	4

COURSE OBJECTIVES

- ✓ To understand the fundamentals of Python Programming.
- ✓ To understand and practice embedded dynamic scripting on client side Internet Programming.
- ✓ To understand and practice web development techniques on client-side.
- ✓ Learning Outcomes: To enable the students to gain knowledge in Python Programming with OOPs Concepts.

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COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Exposed to Python syntax and semantics and be fluent in the use Python flow control and functions.
CO2	Create and run Python Programs using Lists, Dictionaries and handle File Systems.
CO3	Explain the concepts of Regular Expressions and Object-Oriented programming as used in Python.
CO4	Build Data Structures using Python.
CO5	Create programming projects from scratch using in-demand skill and technologies

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-		-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-		-	✓
CO5	-	✓	✓	-	-		-	-	-		-	

SEMESTER – VI

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code :	**20U6ITCT20**	**Core 20: Operations of E-Wallet and Information Security**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**6 Hours**		**Credits**	**4**

Course Objectives:

- To learn about the basic operations of E-Wallet and Information Security.
- To acquire knowledge in Risk Management and Planning.
- To understand the concepts of Logical and Physical Design.
- To enhance the key concepts of Security Technology.

COURSE OUTCOMES (CO)

At the end of the practical session, students would be well-versed in

CO Number	CO Statement
CO1	Explain the usage and operations of E-wallets
CO2	Explain the need of Information Security, polices, standards
CO3	Explain the various kinds of security technologies available.
CO4	Describe the information security implementation and maintenance models.
CO5	Describe the concepts of Infromation Security.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code :	**20U6ITCP21**	**Core 21: Python Programming-Practical**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**6 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To write, test, and debug simple Python programs.
- To develop the applications using Python programming language.

COURSE OUTCOMES:

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Develop proficiency in creatingapplications,testing and debugging of code written in Python using the Python Programming Language.
CO2	Understand the various data structures available in Python programming language and apply them in solving computational problems.
CO3	Perform text filtering with regular expressions in Python
CO4	Draw various kinds of plots using PyLab

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER-V

Programme Code	B.Sc	Programme Title	Bachelor of Science (Information Technology)	
Course Code	20U5ITET1B	ELECTIVE 1: SOFTWARE TESTING	Batch	2020-2023
			Semester	V
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

- To make the students to undertstand Software Testing principles.
- To discuss the distinctions between types of testing.
- To understand the essential charactersitics of tool used for test automation.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	List a range of different software testing techniques and strategies and be able to apply specific (automated) unit testing method to the projects.
CO2	Distinguish characteristics of structural testing methods
CO3	Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible
CO4	Discuss about the functional and system testing methods.
CO5	Demonstrate various issues for object oriented testing with planning, Management, Execution and Reporting.

Mapping With Program Outcomes

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code	**B.Sc**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code	**20U5ITET1C**	**ELECTIVE 1: CYBER SECURITY**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to have
- To learn about the overview of Information Security and Assurance
- To learn about exposure to the spectrum of security activities, methods and methodologies
- To understand on information security policies and procedures

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Analyze and resolve security issues in networks and computer systems to secure an IT infrastructure.
CO2	Design, develop, test and evaluate secure software.
CO3	*Develop policies and procedures to manage enterprise security risks*
CO4	Evaluate and communicate the human role in security systems with an emphasis on ethics, social engineering vulnerabilities and training.
CO5	Interpret and forensically investigate security incidents.

MAPPING WITH PROGRAMME OUTCOMES

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	✓	✓	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER – V

Programme Code	B.Sc IT	Programme Title	Bachlor of Science Information Technology	
Course Code	20U5ITET2A	ELECTIVE 2: Web Technology and its Applications	Batch	2020-2023
			Semester	V
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

On completion of this course,

- A student will be able to develop a web application using java technologies.
- The students will gain the skills and project-based experience needed for entry into web application and development careers.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Design a static webpage by applying HTML elements.
CO2	Apply CSS concepts for designing HTML web pages.
CO3	Develop DHTML pages by using JavaScript
CO4	Define the fundamental of scripting languages.

CO5	Describe about how to write a well formed / valid XML document

Mapping With Programme Outcomes

CO/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code	**B.Sc IT**	**Programme Title**	**Bachlor of Science (Information Technology)**	
Course Code	**20U5ITET2B**	**ELECTIVE 2: Software Engineering**	**Batch**	**2020-2023**
			Semester	**V**
Hours/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To learn the basics Concepts of Software Engineering .
- To Understand the Phases of Software Engineering Life Cycle.
- To learn about various types of Testing.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain a planning for a software project Development.
CO2	Prepare the SR analysis and Analysis Modelling Approaches. Apply Project Requirement analysis , Verification and validation
CO3	Generate designing Models
CO4	Developing Component based Software
CO5	Generate test cases using various testing techniques.

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – V

Programme Code	**B.Sc IT**	**Programme Title**	**Bachlor of Science Information Technology**	
Course Code	**20U5ITET2C**	**ELECTIVE 2: Software Project Management**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

- To get knowledge of how to handle project development activities
- To understand the threats and opportunities in Project managements
- To study various project cost, time estimation models.
- To study how to make quality software products.
- To Appreciate management issues like team structure and group dynamics

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Apply project management concepts and techniques to an IT project.
CO2	Identify issues that could lead to IT project success or failure.
CO3	Explain project management in terms of the software development process.
CO4	Describe the responsibilities of IT project managers.
CO5	Apply project management concepts through working in a group as team leader or active team member on an IT project

Mapping With Programme Outcomes

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	✓	-
CO2	-	✓	✓	-	-	✓	-	-	-	✓	✓	-
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO5	-	✓	✓	-	-	✓	-	✓	-	-	✓	-

SEMESTER-VI

Programme Code	B.Sc IT	Programme Title	Bachlor of Science. Information Technology	
Course Code	20U6ITET3A	Elective 3 : Artificial Intelligence and Expert System	Batch	2020-2023
			Semester	VI
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

To enable the students

- To understand different planning problems and have the basic knowledge how to design and implement AI planning systems
- To understand the strengths and limitations of various state-space search algorithms and choose the appropriate algorithms for a problem.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the strengths and limitations of various state-space search algorithmsand choose the appropriate algorithms for a problem
CO2	Learn the basics of the theory and practice of Artificial Intelligence as adiscipline about intelligent agents capable of decision making.
CO3	Apply knowledge representation techniques and problem solving strategies tocommon AI applications
CO4	Design simple software to experiment with various AI concepts and analyze results
CO5	Build self-learning and research skills to be able to tackle a topic of interest onhis/her own or as part of a team

Mapping With Programme Outcomes

CO PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	✓	✓	-	-	-	✓	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	-	✓	✓

SEMESTER VI

Programme Code	**B.SC IT**	**Programme Title**	**Bachelor of Science Information Technology**	
Course Code	**20U6ITET3B**	**Elective 3: Big Data Analytics**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students

- To study the basic technologies that forms the foundations of Big Data.
- To understand the specialized aspects of big data including big data application, and big data analytics
- To study different types case studies on the current research and applications of the Hadoop and big data in industry

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the building blocks of Big Data
CO2	Differentiate and identify right database models for real time applications
CO3	Analyze recent research trends related to Hadoop File System, MapReduce and Google File System etc
CO4	Analyze the analytical aspects of Big Data
CO5	Explain the detailed architecture, database properties and storage requirements

Mapping with Programme Outcomes

CO PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER – V

Programme Code	B.Sc IT	Programme Title	Bachelor of Science (Information Technology)	
Course Code	20U6ITET3C	ELECTIVE3:Mobile and Wireless Technology	Batch	2020-2023
			Semester	VI
Hrs/week	4 Hours		Credits	3

COURSE OBJECTIVES

To enable the students

- To understand mobile radio communication principles and to study the recent trends adopted in cellular systems and wireless standards.
- To understand the evolution of Mobile communication and cell concept to improve capacity of the system
- To understand the types of channel coding techniques, data transmission modes and services

COURSE OUTCOMES (CO)

On the successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Analyze Cellular Systems, CDMA, FDMA, network planning and TDMA Concepts.
CO2	Learn the fundamentals of GSM. viz., channels, coding techniques, data transmission, services.
CO3	Learn the concepts of the Mobile radio propagation, fading, convergence and the channel modeling.
CO4	Differentiate various Wireless LANs and its concepts.
CO5	Design the applications of wireless systems and standards

Mapping With Programme Outcomes

CO/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	✓	-
CO2	-	✓	✓	-	-	✓	-	-	-	✓	✓	-
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	-
CO5	-	✓	✓	-	-	✓	-	✓	-	-	✓	-

SEMESTER – VI

Programme code:	B.SC IT	Programme Title	Bachelor of Science Information Technology	
Course Code:	20U6ITET4A	ELECTIVE 4: COMPILER DESIGN	Batch	2020-2023
			Semester	VI
Hrs/Week:	4 Hours		Credits	3

COURSE OBJECTIVES

To enable the students

- To learn the fundamentals of Compiler Designs and knowledge on High level Programming languages.

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand the basics of compilation(computing)
CO2	Understand grammar of compilers
CO3	Understand the intermediate form of codes in compilers
CO4	Understand the code generation technique(Machine code)
CO5	Understand the optimization of code in compilers

MAPPING WITH PROGRAMME OUTCOMES

CO /Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-

SEMESTER – VI

Programme code:	B.SC IT	Programme Title	Bachelor of Science InformationTechnology	
Course Code:	20U6ITET4B	ELECTIVE 4: MOBILE OPERATING SYSTEM	Batch	2020-2023
			Semester	VI
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

To enable the students

- To understand the process of developing software for the mobile and create mobile applications on the Android Platform

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand the limitations and challenges of working in a mobile and wireless environment.
CO2	Describe and apply the different types of application models/architectures used to develop mobile software applications.
CO3	Describe the components and structure of a mobile development frameworks (Android SDK and Eclipse Android Development Tools
CO4	To learn how and when to apply the different components to develop a working system
CO5	Design, implement and deploy mobile applications using an appropriate software development environment.

MAPPING WITH PROGRAMME OUTCOMES

COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	-	✓	✓	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	✓	-	-	-	-	-	-
CO4	-	✓	✓	✓	✓	-	-	-	-	-	-
CO5	-	✓	✓	✓	✓	-	-	-	-	-	-

SEMESTER VI

Programme Code :	**B.Sc IT**	**Programme Title**	**Bachelor of Science (Information Technology)**	
Course Code :	**20U6ITET4C**	**Elective 4:CLOUD COMPUTING**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**4 Hours**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students :

- To Understand the Cloud computing architectures, applications and challenges and learn about various cloud storages

COURSE OUTCOMES (CO)

On successful completion of the course, students would be able to

CO Number	CO Statement
CO1	Understand History and Benifits in cloud computing
CO2	Analyse the Cloud Computing Architecture and Models
CO3	Identify the cloud data center and visualization technologies.
CO4	Analyse the visualization technology and security issues of cloud Computing
CO5	Evaluate various advanced cloud computing platforms

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓

Kovai Kalaimagal College of Arts and Science

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Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,

Coimbatore - 641 109.

DEPARTMENT OF MATHEMATICS (CA)

COURSE OUTCOMES (CO)

B.Sc MATHEMATICS (CA)

For the Students Admitted in the Academic year 2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES AND PROGRAMME OUTCOME

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1: Graduates would occupy covenant positions in various types of industries, executing their tasks with professionalism and professional ethics.

PEO2: Graduates would pursue research in socially relevant fields.

PEO3: Graduates would have concern for fellow human beings and contribute to the welfare of the society.

PROGRAMME OUTCOMES

After completion of three years of study, our B.Sc Mathematics (CA) graduates will be able to :

PO1: Communicates effectively to others in both oral and written form specifically in the globalized scenario.

PO2: Have strong foundation with basic concepts and acquire adequate domain specific knowledge.

PO3: Gain proficiency in computer technology, modern tools used for numerical and statistical computation.

PO4: Acquire adequate Knowledge in Inter-disciplinary subjects like accounts and computer science for understanding of application of mathematical concepts in such subjects.

PO5: Develop self confidence and hence positive attitude to face the challenges in the competitive world.

PO6: Understand, analyze the problem in multiple perspectives and provide innovative solutions.

PO7: Perform as an effective team leader with dynamic attitude to demonstrate mathematical and computing skills.

PO8: Recognize and apply professional ethics and social values to become a responsible citizen and have concern for environment protection and well being of the society.

PO9: Realize one's own potential and acquire the skills to the emotionally balanced in stress full situations.

PO10: Take efforts to become Job providers rather than job seekers.

PO11: Realizing the responsibilities towards the society and to protect the environment,use ours professional knowledge for providing better lining condition to the people.

PO12: Motivate the students to have longing for learning in grow to keep oneself abreast of the developments particularly in various application of Mathematical techniques in diverse fields of activities.

SEMESTER I

Programme Code :	B.Sc. Mathematics (CA)	Programme Title	Bachelor of Science Mathematics (CA)	
Course Code :	20U1TALT01	Title : Tamil - I	Batch	2020 - 2023
			Semester	1
Hrs/week	5		Credits	3

நோக்கம்

1. சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல் புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
2. தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
3. மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
4. மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	–	✓
CO2	-	-	-	-	✓	✓	–	✓	–	–	✓	-
CO3	-	–	-	-	✓	✓	-	–	✓	–	–	-
CO4	-	-	-	-	✓	-	-	–	–	✓	–	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER-I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code:	20U1ENLT01	Language II-Functional English – I	**Batch**	2020 - 2023
			Semester	I
Hrs/ Week	5 Hrs		**Credits**	3

COURSE OBJECTIVES:

To enable the students

- To understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	✓	✓
CO2	✓	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	✓	-	-	-	-	-	-	-	✓	✓

SEMESTER I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U1MCCT01	Title : Core 1 - Calculus	**Batch**	2020 - 2023
			Semester	I
Hrs/week	5 Hrs.		**Credits**	4

COURSE OBJECTIVES

- To enable the Students
- To gain knowledge about Envelope, Curvature and Evolute of Curve
- To evaluate Integral calculus for various forms.
- To understand the concept of Proper and improper integrals.
- To know how to evaluate multiple integrals.
- To know Beta, Gamma functions, Jaccobians their properties and their application.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define curvature, radius of curvature and methods of finding envelope of a curve.
CO2	Find the radius of curvature and derive pedal equation of a curve.
CO3	Evaluate special integrals.
CO4	Apply double integrals to find the area of a curve and evaluation of triple integrals.
CO5	Derive beta and gamma functions and evaluate of multiple integrals using beta and gamma functions using jacobian.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U1MCCT02	Title : Core 2 -Algebra and Trigonometry	**Batch**	2020 - 2023
			Semester	I
Hrs/week	6 Hrs.		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To gain knowledge about Summation of series using Binomial, Exponential theorem.
- To get expose with theory of Equations and its applications
- To Expand Trigonometrical functions and to acquire knowledge about logarithmic functions
- To know about the Descartes' Rule of signs-Rolle's Theorem and Horner's method.
- To understand the concepts of Logarithm of a complex numbers and Summation of Trigonometric Series.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Apply the binomial theorem, exponential theorem and logarithmic theorem to summation of series
CO2	Explain the theory of equations and transformation of equations
CO3	Apply the Rolle's Theorem and Horner's Method to find the root of the equation
CO4	Explain how to expand trigonometric functions and separate real and imaginary parts
CO5	Find the logarithm of complex numbers

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	✓	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	-	-	✓

SEMESTER I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U1MCAT01	Title : Allied 1 - Mathematical Statistics - I	**Batch**	2020 - 2023
			Semester	I
Hrs/week	5 Hrs.		**Credits**	4

COURSE OBJECTIVES

To enable the students

- To understand concepts of probability and Random variable
- To learn about Discrete and Continuous probability distributions.
- To know about moment generating and charateristics function and their properties.
- To understand the concepts of probability distributions.
- To gain knowledge about Correlation and Regression Analysis

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define the basic concepts of Probability and its applications.
CO2	Explain the types of random variables, Distribution functions and Mathematical Expectation
CO3	Derive the Moment Generating functions and Characteristic functions of various distributions
CO4	Determine the constants of various distributions and the fitting of various probability distributions
CO5	Calculate the correlation coefficient and form the regression between the variables and interpret them

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code:	20U1VBET01	**Value Based Education 1:** Environmental Studies	**Batch**	2020 - 2023
			Semester	I
Hrs/ Week	2 Hrs		**Credits**	1

COURSE OBJECTIVES:

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation
- To make the students know on various types of environmental pollution, their causes , effects, their prevention and the students role in the same.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Understand the interdisciplinary nature of environmental issues.
CO2	Understand the core concepts and methods from ecological and physical sciences and their application in environmental problem solving.
CO3	Develop a sense of community responsibility by becoming aware of scientific issues in the larger social context.
CO4	Develop the sense on ethical, cross cultural and historical context of environmental issues and the links between human and natural systems.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	-	-	-	-	-	-	-	-	-	-	✓	-
CO 2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO 3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 4	-	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER : I

Programme Code :	**B.Sc. Mathematics (CA)**	**Programme Title**	**Bachelor of Science Mathematics (CA)**	
Course Code :	20U1NMET01	**Non Major Elective 1** : Food Science and Nutrition	**Batch**	2020 - 2023
			Semester	I
Hrs/week	2 Hrs		**Credits**	2

COURSE OBJECTIVE

- To understand the importance of Nutrition and the role of food in the maintenance of good health.
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	**CO Statement**
CO1	identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about clasification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U1SBST01	Title :**Skill Based Subject 1 - Mathematics For Competitive Examinations - I**	**Batch** **Semester**	2020 - 2023 I
Hrs/week	2 Hours		**Credits**	1

COURSE OBJECTIVES

To enable the Students

- To understand the fundamental arithmetic skills and problem solving.
- To learn about the average and Problems on numbers.
- To solve problem related to Ages and Calander and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races and games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-I

Programme Code :	**B.Sc. Mathematics (CA)**	**Programme Title**	**Bachelor of Science Mathematics (CA)**	
Course Code:	**20U1SBST02**	**Skill Based Subject 2 - Communication Skills- I**	**Batch**	**2020 - 2023**
			Semester	**I**
Hrs/ Week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to over come the same
- To make the students to know various types of listening and the effect of enhancing the listening skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	✓	-	-	-	-	-	-	-
CO2	✓	-	-	-	✓	-	-	-	-	-	-	-
CO3	✓	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	Programme Title	Bachelor of Science Mathematics (CA)	
Course Code :	20U2TALT02	Title : Tamil – II	Batch	2020-2023
			Semester	II
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO11	PO1 2
CO 1	✓	✓	-	-	✓	-	✓	-	✓	-	–	✓
CO 2	–	-	-	-	–	✓	✓	–	–	–	✓	-
CO 3	–	–	-	-	–	–	-	–	–	–	✓	-
CO 4	-	-	-	-	✓	-	-	–	–	✓	–	-
CO 5	✓	-	-	-	-	-	-	-	✓	–	-	-

SEMESTER-II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code:	20U2ENLT02	Language II-Functional English – II	Batch	2020-2023
			Semester	II
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

1.To enable the students to understand the basic grammar in English.
2.To acquaint students with the structure and strategies of conversation
3.To make the students appreciate the significant works and style of prose
4. To develop the skills of speaking and writing without flaws.
5.To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO 11**	**PO 12**
CO1	-	-	-	-	-	-	-	-	-	✓	✓	✓
CO2	✓	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	✓	-	-	-	-	-	-	-	✓	✓

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U2MCCT03	Title : Core 3 - Analytical Geometry of Three Dimensions	**Batch**	2020-2023
			Semester	II
Hrs/week	4 Hrs		**Credits**	3

COURSE OBJECTIVES

To enable the Students

.To understand about straight lines in three dimensional Geometry.
.To have knowledge about Sphere, Cone and Cylinder and their applications.
.To learn about conicoids in Solid Geometry.
.To understand the concepts of cylinder and how to determine the equation of cylinder.
.To know about the concepts of tangent and normal palnes to the conicoids.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the concept of straight line, Coplanar lines and Shortest distance bewtween skew lines.
CO2	Determine the equation of a sphere, circle and the tangent plane at a given point.
CO3	Derive the equation of cone, right circular cone and solve the equauion of tangent plane and normal.
CO4	Determine the equation of a cyclinder and enveloping cylinder.
CO5	Apply the concepts of tangent and normal planes to the conicoids.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U2MCCT04	Title : Core 4 - Programming in C	**Batch**	2020-2023
			Semester	II
Hrs/week	4 Hrs.		**Credits**	3

COURSE OBJECTIVES

To enable the students

- To know about the basics of C Programming and its various computation logics.
- To understand the concept of operators.
- To clearly understand decision making and branching concepts with various statements.
- To know about the concept of arrays, strings and functions with its various operations.
- To learn about the user defined function.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recognize situations where computational methods and computers would be useful.
CO2	Identify the loops and decision making statements in C programming to create structure of a program
CO3	Classify functions to solve the given problem.
CO4	Understand advanced use of arrays in C++ programming.
CO5	Sketch user defined functions and class for user specified actions.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	✓	✓	-	-	-	-	✓
CO2	-	✓	✓	✓	✓	✓	✓	-	-	-	-	✓
CO3	-	✓	✓	✓	✓	✓	✓	-	-	-	-	✓
CO4	-	✓	✓	✓	✓	✓	✓	-	-	-	-	✓
CO5	-	✓	✓	✓	✓	✓	✓	-	-	-	-	✓

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U2MCCP05	Title : Core 5- Programming in C-Practical	**Batch**	2020-2023
			Semester	II
Hrs/week	3 Hrs.		**Credits**	2

COURSE OBJECTIVES

To enable the students

- To enhance the students to learn field of C programming language with various techniques for enhance their analysis and problem solving techniques.
- To learn basic principles of objects, arrays and pointers for efficient implemenataion in real world problems.
- To gain the knowledge of string functions.

COURSE OUTCOMES (CO)

On successful completion of this lab Course, student should be able to

CO Number	Statement
CO1	Understand the basic structure of C programming for declaring and usage of variables.
CO2	Find a solution for given problem by using time and memory complexity.
CO3	Solve given problem by using the loop and decision making statements.
CO4	Implementation of various file operations for a given application

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	✓	-	✓	-	-	-
CO2	-	✓	-	-	-	✓	✓	-	✓	-	-	-
CO3	-	✓	-	-	-	✓	✓	-	✓	-	-	-
CO4	-	✓	-	-	-	✓	✓	-	✓	-	-	-

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)		
Course Code :	20U2MCAT02	Title : Allied 2 - Mathematical Statistics – II	**Batch**	2020-2023	
			Semester	II	
Hrs/week	5 Hrs.		**Credits**	4	

COURSE OBJECTIVES

To enable the students

- To understand the concept of population and samples.
- To know about concept of estimation, chracteristics of estimation and method of estimation.
- To learn about test of significance.
- To understand the various methods of sampling and the concept of test of significance.
- To gain knowledge about ANOVA and Design of Experimentsand their practical applications

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the methods of sampling, concepts of test of significance and its applications
CO2	Explain the method of estimation and maximum likelihood estimator of various probability distributions
CO3	Apply the various tests of significance to practical problems
CO4	Explain optimum tests under different situations
CO5	Employ the concept of analysis of variance and design of experiments to practical situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U2VBET02	Title :Value Based Education II (அறவியலும் பண்பாடும்)ழு*	**Batch**	2020-2023
			Semester	II
Hrs/week	2		**Credits**	1

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்இ குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டுஇ சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-

CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	B.Sc Mathematics CA	**Programme Title**	Bachelor of Mathematics (CA)	
Course Code :	20U2NMET02	Non Major Elective 2 : Floriculture	**Batch**	2020-2023
			Semester	II
Hrs/week	2 Hrs		**Credits**	2

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals &Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U2SBST03	Title :Skill Based Subject 3: Mathematics for Competitive Examinations – II	**Batch**	2020-2023
			Semester	II
Hrs/week	2 Hours		**Credits**	

COURSE OBJECTIVES

To enable the Students

- To know about concept of Interest and Profit and loss.
- To develop the ability in solving Permutation , Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER III

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U3MCCT06	Title : Core 6 : Vector Calculus & Fourier Series	**Batch**	2020-2023
			Semester	III
Hours/week	6 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To understand the concept of vector Differentiation and Integration
- To make themselves clear of the concepts of line and surface Integrals.
- To gain knowledge about Fourier series and Half range Fourier series.
- To find a solution for multiple integrals by using Gauss divergence theorem, stoke's theorem and Green's theorem.
- To know about the concept of fourier coefficient.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO No	CO Statements
C01	Calculate vector scalar and vector products and recognise irrotational, solenoidal vector fields.
C02	Apply the concepts of Gradient, Divergence and curl to solve vector diiferentiation problems.
C03	Understand the various theorems relating to line, surface and volume integral.
C04	Solve the multiple integrals by applying Gauss divergence theorem, Stoke's theorem and Green's theorem.
C05	Find the Fourier co-efficient for periodic functions.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	✓	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓	-
CO3	-	-	-	-	-	✓	-	-	✓	-	-	✓
CO4	✓	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	✓	✓	-	-	-	-	-	✓

SEMESTER III

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U3MCCT07	Title : Core 7 :Statics	**Batch**	2020-2023
			Semester	III
Hours/week	6 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To understand nature of forces and resultant forces
- To make the student realize the concept of Parallel forces, Moments and Couples
- To know about the concepts of parallel force and moments.
- To gain knowledge about reduction of Coplanar forces and its applications
- To find equilibrium of three forces acting on a rigid body.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO NO	CO Statements
C01	Understand the basic priciples and to develop the ability to describe the position of forces and moments.
C02	Apply the concepts of Lamis theorem and (λ,μ) theorem.
C03	Apply the concepts of forces in finding the resultant of more than two force acting on a surface.
C04	Analyze the basics of coplanar forces and equilibrium of forces acting on a rigid body and can solve the simple problems related to it.
C05	Understand the basic concepts of theorems on moments and to find equilibrium of three forces acting on a rigid body.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	✓	-	-	✓
CO2	✓	✓	✓	-	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	✓	-	-	-	-	-
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	✓	-	-	✓

SEMESTER III

Programme Code:	B.Sc Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U3MCCT08	Title : Core 8: Programming in C++	**Batch**	2020-2023
			Semester	III
Hours/week	6 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To learn about class structure, member function & data members.
- To learn the concept of inheritance, types and example problems.
- To learn the concept of polymorphism, types and problems.
- To learn the concepts of operator overloading and inheritance.
- To learn the concept of file handling.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Define basic structure data types in C++
CO2	Explain functions & operations in C++
CO3	Define classes, objects, constructors & destructors
CO4	Apply the operator overloading & inheritance concept
CO5	Explain the files

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO2	-	-	✓	✓	-	✓	✓	-	-	-	✓	✓
CO3	-	-	✓	✓	-	-	✓	-	-	-	✓	✓
CO4	-	-	✓	✓	-	-	✓	-	-	✓	✓	✓
CO5	-	-	✓	✓	-	-	✓	-	-	-	✓	✓

SEMESTER III

Programme Code :	B.Sc Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)
Course Code :	20U3MCCP09	Title : Core 9: Programming in C++(Practical)	**Batch** 2020-2023
Hours/week	3 Hours		**Semester** III
			Credits 2

COURSE OBJECTIVES

To enable the Students

- To learn about class structure, member function & data members.
- To learn the concept of inheritance, types and example problems.
- To learn the concept of polymorphism, types and problems.
- To learn the concept of file handling.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Use function
C02	Apply member function to calculate employee payslip
C03	Apply different classes

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO2	-	-	✓	✓	-	✓	✓	-	-	✓	✓	✓
CO3	-	-	✓	✓	-	-	✓	-	-	✓	✓	✓

SEMESTER III

Programme Code :	B.Sc Mathematics CA	Programme Title	Bachelor of Mathematics	
Course Code :	20U3MCAT03	Title :Allied 3: Accountancy-I	Batch	2020-2023
			Semester	III
Hours/week	6 Hours		Credits	4

COURSE OBJECTIVES

To enable the Students

- To understand the basic accounting concept and convention.
- To know about the final accounts of sole trader.
- To import knowledge on non trading concern and bill of exchange.
- To provide knowledge on consignments and joint ventures.
- To acquire knowledge in bank reconciliation statement.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Explain the basic accounting concepts and the procedure to prepare journal and ledger
C02	Prepare a Final accounts of Sole Trader concern.
C03	Prepare accounting for of Non-Trading Concerns.
C04	Explain the concept of Joint Venture and Consignments
C05	Prepare Bank Reconciliation Statement.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U3SBST05	Skill based subject 5: Mathematics for competitive Examinations III	**Batch**	2020-2023
			Semester	III
Hours/week	2 Hours		**Credits**	1

COURSE OBJECTIVES

To enable the Students

- To make the students to know the concept of Pipes, Cistern and Probablity.
- To solve problems on Boats and Streams .
- To make the students to know the concept of Alligation or mixture,Problem of Heights and distance, odd man out series.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Solve the problems on pipes and cistern.
C02	Solve the problems on time and distance, train, boats and stream.
C03	Apply the concept of Alligation and height & distance to solve certain types of problems.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code :	**20U3BTLT01**	**Non Credit Course 1:** Basic Tamil-I Title : அடிப்படைத் தமிழ்	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	-		**Credits**	**-**

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம் :

- தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
- சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
- தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
- வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code :	**20U3ATLT01**	**Non Credit Course 1:** Advanced Tamil -I Title : சிறப்புத் தமிழ்	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER - III

Programme Code :	B.Sc.Mathematics(CA)	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code:	20U3SSCT1A	**Self study Course – I** **மனித வாழ்க்கையும் காந்தியடிகளும்மூழு**	**Batch**	2020-2023
			Semester	III
Hrs/ Week	-		**Credits**	1

நோக்கம்

- மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
- இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய

தீர்வுகளை அறியச் செய்தல்.

- மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
- நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
- காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc.Mathematics(CA)	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code:	20U6SSCT1B	**Self study Course – III** **இந்திய விடுதலைப் போரில் வ.உ.சிழுழு**	**Batch**	2020 - 2023
			Semester	III
Hrs/ Week	-		**Credits**	1

நோக்கம்

1. வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
2. சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
3. வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
4. வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
5. விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc.Mathematics(CA)	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code:	20U3SSCT1C	**Self study Course – III** **நேதாஜியின் வீர வரலாறுமூழு**	**Batch**	2020 - 2023
			Semester	3
Hrs/ Week	-		**Credits**	1

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.
5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Sc.Mathematics(CA)	**Programme Title**	Bachelor of Science Mathematics(CA)	
Course Code:	20U3SSCT1D	**Self study Course – III** **அக்னிச் சிறகுகளழூழு**	**Batch**	2020 - 2023
			Semester	3
Hrs/ Week	-		**Credits**	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும் தேசப்பற்றை வளர்த்தல்
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்
5. ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	ALL UG	Programme Title		
Course Code:	20U3SSCT1E	Self study Course – I	Batch	2020 - 2023
		E.V.R Periyarin vaazhkai Varalaaru**	Semester	3
Hrs/ Week	-	ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்	Credits	2

நோக்கம்

1. பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.
2. நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.
3. அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.
4. பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.
5. சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	ALL UG	Programme Title		
Course Code:	20U3SSCT1F	Self study Course – I Kamarajarin vaazhkai Varalaaru** காமராசர் ஓர் வழிகாட்டி	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

1. காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.
2. காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.
3. உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.
4. காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.
5. திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - ஊழரசளந ழுரவஉழஅந (ஊழு)

ஊழு ரேஅடிநச	ஊழு ளுவயவநஅநவெ
ஊழு1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
ஊழு2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
ஊழு3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
ஊழு4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
ஊழு5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER IV

Programme Code :	**B.Sc. Mathematics (CA)**	**Programme Title:**	**Bachelor of Science Mathematics (CA)**	
Course Code :	20U4MCCT10	Title : Core 10: Differential Equations & Laplace transforms	**Batch**	2020-2023
			Semester	IV
Hours/week	7 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To make the students solve ordinary differential Equations of First order and second order, partial Differential Equations
- To find the solution of second order linear differential equations.
- To find the solution of differential equations by eliminating arbitrary constants and arbitrary funcions.
- To gain knowledge about Laplace Transforms and Inverse Laplace Transforms.
- To understand Applications of Laplace Transforms.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	**CO Statements**
C01	Solve the differential equations of first order and of degree higher than one solvable for p, x and y.
C02	Solve linear differential equations of second order.
C03	Solve the partial differential equations by eliminating arbitary constants and arbitary functions and also by Lagranges linear equations.
C04	Solve the linear differential equations using the Laplace transform techniques.
C05	Apply the Inverse Laplace transform technique to first order and second order differential equations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	✓	-	-	-	-	-	✓	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	✓		-	-	-	-	-	✓
CO4	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	-	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER IV

Programme Code :	**B.Sc. Mathematics (CA)**	**Programme Title:**	**Bachelor of Science Mathematics (CA)**	
Course Code :	20U4MCCT11	Title : Core 11:Dynamics	**Batch**	2020-2023
			Semester	IV
Hours/week	6 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To understand concepts of Kinematics and Projectile motion of Particles,
- To learn about radial and transverse components in central orbit
- To gain knowledge about Simple Harmonic motion and its applications.
- To learn about the concept of impulsive force and collision of elastic force.
- To get exposed to the knowledge about the collision of bodies and Loss of Kinetic energy.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Understand and work with practical problems in dynamics.
C02	Evaluate the forces in central orbit by applying the action of central forces.
C03	Remember the motion which was studied under simple harmonic motion.
C04	Analyze the concepts of impulse, impulsive forces and the collision of elastic forces and be able to solve the simple problems.
C05	Know the basic concepts of laws of kinetic energy using smooth and oblique surface.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	✓	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER IV

Programme Code :	B.Sc Mathematics CA	Programme Title	Bachelor of Mathematics	
Course Code :	20U4MCCT12	Title : Core 12: Data Structure using C++	Batch	2020-2023
			Semester	IV
Hours/week	5 Hours		Credits	4

COURSE OBJECTIVES

To enable the Students

- To know the basic concepts of data structures.
- To understand the concept of stack and Queue
- To learn the concept of arrays and linked lists.
- To acquire the knowledge of trees.
- To know about the basic concepts of graphs and trees.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Define basic data structure concept
C02	Apply stack & Queue concepts
C03	Use link & list concepts
C04	Define trees
C05	Explain graph in C++

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO2	✓	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓
CO3	-	-	✓	✓	-	-	✓	-	-	-	✓	✓
CO4	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO5	-	-	✓	✓	-	-	✓	-	-	-	✓	✓

SEMESTER IV

Programme Code :	**B.Sc Mathematics CA**	**Programme Title**	**Bachelor of Mathematics**	
Course Code :	20U4MCCP13	Title : Core 13: Data structure using C++ (Practical)	**Batch**	2020-2023
			Semester	IV
Hours/week	3 Hours		**Credits**	2

COURSE OBJECTIVES

To enable the Students

- To know the basic concepts of data structures.
- To learn the concept of arrays, stack operations and linked lists.
- To know about the basic concepts of graphs and trees.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	**Statements**
CO1	Use push, pop, all, delete, polynomial & operations in array
C02	Use heap sort and binary swatch
C03	Use depth first & breath first search for graph

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	✓	✓	-	-	✓	-	-	✓	✓	✓
CO2	-	-	✓	✓	-	✓	✓	-	-	✓	✓	✓
CO3	-	-	✓	✓	-	-	✓	-	-	✓	✓	✓

SEMESTER IV

Programme Code :	**B.Sc Mathematics CA**	**Programme Title**	**Bachelor of Mathematics**		
Course Code :	20U4MCAT04	Title :Allied 4: Accountancy-II	**Batch**	2020-2023	
			Semester	IV	
Hours/week	6 Hours		**Credits**	4	

COURSE OBJECTIVES

To enable the Students

- To gain knowledge about the various methods of calculating depreciation.
- To know about the methods under single entry system.
- To provide knowledge in the preparation of departmental and branch accounts.
- To make the students to prepare hire purchase accounts.
- To familiarise the students about royalties and sublease.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Explain the methods of depreciation and to calculate the rate of depreciation.
C02	Calculate the statement of affairs method and conversion method.
C03	Prepare departmental accounts and branch accounts.
C04	Prepare of Hire Purchase and Instalment system
C05	Prepare of Royalties account.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER IV

Programme Code :	**B.Sc. Mathematics (CA)**	**Programme Title:**	**Bachelor of Science Mathematics (CA)**	
Course Code :	20U4SBST07	Skill Based Subject 7: Mathematics for Competitive Exmainations IV	**Batch**	2020-2023
			Semester	IV
Hours/week	2 Hours		**Credits**	1

COURSE OBJECTIVES

To enable the Students

- To make the students to know the methods of solving problems of Interest and Venn Diagrams
- To solve problems related to on Sequence and series.
- To develop the skills in solving problems for checking ones Mental Ability and Logical reasoning.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO No.	CO Statements
C01	Explain the concept of finance and derive the inference using Venn- diagram.
C02	Solve the problems on logarithms, area, Volume, Sequence and series.
C03	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	**Bachelor of Science Mathematics (CA)**	
Course Code :	**20U4BTLT02**	**Non Credit Course 2 : Basic Tamil-II Title : அடிப்படைத் தமிழ்**	**Batch**	2020-2023
			Semester	IV
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.
- தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.
- தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.
- தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்கை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	**Bachelor of Science Mathematics (CA)**	
Course Code :	**20U4ATLT02**	**Advanced Tamil-II # Title : சிறப்புத் தமிழ்**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.

திருக்குறளின் சிறப்பை அறியச் செய்தல்.

சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.

பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.

மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபு பிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	✓	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	✓	-	✓	✓	-	-

SEMESTER- IV

Programme Code:	B.sc.Mathematics(CA)	Programme Title	Bachelor of Science Mathematics(CA)	
Course Code:	20U4SSCT2A	Self Study Course 2 : Women's Rights**	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

- To make the women students understand the legal systems, constitutional frame work and human rights in India.
- To understand and appreciate the women's claims to land and their right to property.
- To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
- To give knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	B.sc.Mathematics(CA)	Programme Title	Bachelor of Science Mathematics(CA)	
Course Code:	20U4SSCT2C	Self Study Course 2: Human Rights**	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

- To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	develop skills on human rights advocacy.
CO2	appreciate the relationship between rights and duties.
CO3	foster respect for tolerance and compassion for all living creature.
CO4	create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER- IV

Programme Code:	**B.sc.Mathematics(CA)**	**Programme Title**	**Bachelor of Science Mathematics(CA)**	
Course Code:	**20U4SSCT2D**	**Self Study Course 2: Consumer Affairs****	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES

- To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCCT14	Title : Core 14: Real Analysis	**Batch**	2020-2023
			Semester	V
Hrs/week	6 Hours		**Credits**	5

COURSE OBJECTIVES

To enable the Students

- To know about Real number systems, Inequalities, Collections of countable sets.
- To understand the concept of Covering and Basic topology in metric spaces.
- To know about convergent, Cauchy, Continuous functions, Bolzano's theorem.
- To know the concepts of derivative and properties of derivative
- To know about Riemann and Riemann Stieltjes integral and properties.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Explain about real number system, collection of countable, uncountable sets and intersection theorem.
C02	Discuss the concepts of covering and basic topology in metric space.
C03	Understand the concepts of continuity, convergent sequences and metric space.
C04	Explain the concepts of derivatives, properties of derivatives and bounded variation.
C05	Understand the concept of variation and Riemann Stieltjes Integral.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-
CO2	-	✓	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCCT15	Title : Core 15:Modern Algebra	**Batch**	2020-2023
			Semester	V
Hrs/week	6 Hours		**Credits**	5

COURSE OBJECTIVES

To enable the Students

- To recall the concepts of sets, mapping and relations.
- To explain the concepts of groups and subgroups.
- To make use of cauchy's theorem and sylow's theorem.
- To compare the concepts of homomorphism, isomorphism and automorphism of groups.
- To relate the concepts of rings, ideals, Integral domain and Field of Quotients.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Recall the concepts of sets, mapping, relations and related examples.
C02	Explain the basic definitions and properties of groups, subgroup and find simple proofs for results in group theory.
C03	Explain the concepts of homomorphism, isomorphism and automorphism of groups and rings.
C04	Apply the concepts of homomorphism, isomorphism and automorphism of groups and related theorems.
C05	Extend the results from group theory to study the properties of rings and fields and to posses the ability to work within their algebraic structures.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	-	-	-	-	-	-
CO2	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-
CO3	-	✓	-	-	-	-	✓	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	✓	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	✓	-	-	-	-	✓

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Mathematics (CA)	
Course Code :	20U5MCCT16	Title : Core 16: Visual Basic	**Batch**	2020-2023
			Semester	V
Hours/week	5 Hours		**Credits**	4

COURSE OBJECTIVES

To enable the Students

- To understand the Fundamentals in VB.
- To acquire the knowledge of condition & loop statements.
- To know about Drop down Menus, Error Handlers
- To make the students to understand the basics of Dynamic arrays
- To understand the Data files.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain about basic concept in visual basic
C02	Define condition & loop statements
C03	Use numbers and error handling functions
C04	Explain modules & arrays
C05	Define files

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO2	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO3	-	-	✓	✓	-	-	✓	-	-	✓	✓	✓
CO4	-	✓	✓	✓	-	-	✓	-	-	-	✓	✓
CO5	-	-	✓	✓	-	-	✓	-	-	-	✓	✓

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Mathematics (CA)	
Course Code :	20U5MCCP17	Title : Core 17: Visual Basic (Practical)	**Batch**	2020-2023
			Semester	V
Hours/week	3 Hours		**Credits**	2

COURSE OBJECTIVES

To enable the Students

- To understand the Fundamentals in VB.
- To Know about Drop down Menus, Error Handlers
- To make the students to understand the basics of Dynamic arrays and Data files.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
CO1	Use textbox, combo box, command button and pop-up menu
C02	Use scroll bars, drop down menu and input boxes
C03	Calculate factorial and sort list of numbers

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	-	✓	✓	✓
CO2	-	-	✓	✓	-	-	✓	-	-	✓	✓	✓
CO3	-	-	✓	✓	-	✓	✓	-	-	✓	✓	✓

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCET1A	Elective 1: Optimization Techniques - I	**Batch**	2020-2023
			Semester	V
Hrs/week	5 Hours		**Credits**	3

COURSE OBJECTIVES

To enable the Students

- To demonstrate the fundamentals of Operations Research.
- To develop the students understand solving LPP using various methods.
- To discover with various methods to solving transportation problems.
- To summarize the assignment problems.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Define Operations research, Linear Programming problems.
C02	Explain various techniques to solve real life problem expressed in terms of LPP.
C03	Solving LPP using Big in method and Two phase method, Duality and Dual simplex method.
C04	Explain the uses of transportation models and solve transportation problems using various method.
C05	Solving assignment problems using Hungarian methods.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	✓	✓	-	-	✓	✓
CO3	-	-	✓	✓	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	✓	-	-	-
CO5	-	✓	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCET1B	Elective 1 : Software Engineering	**Batch**	2020-2023
			Semester	V
Hrs/week	5 Hours		**Credits**	3

COURSE OBJECTIVES

To enable the Students

- To acquire Knowledge about Software Designing and planning a software project.
- To understand estimation of software cost using various techniques.
- To understand how to specify a requirements for a software and design it accordingly.
- To learn about the Guidelines of Software Designing.
- To understand how to verify and validate a software.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Understand the concepts of software Designing and planning a software project.
C02	Apply the concept of software cost estimation.
C03	Explain the basic concepts of software requirements.
C04	Explain the guidelines of software designing.
C05	Explain debugging and system testing.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	✓	✓	-	-	-	✓	-	-	-
CO2	✓	-	-	✓	✓	-	-	-	-	-	✓	-
CO3	-	✓	✓	-	✓	-	-	-	-	✓	-	-
CO4	-	-	✓	✓	-	-	-	-	✓	-	-	-
CO5	-	✓	-	✓	✓	-	-	-	-	✓	-	-

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCET1C	Elective 1 : Linear Algebra	**Batch**	2020-2023
			Semester	V
Hrs/week	5 Hours		**Credits**	3

COURSEOBJECTIVES

To enable the Students

- To gain knowledge about Linear spaces and their properties.
- To understand the concepts of linear independence, rank and nullity.
- To know about Inner product spaces and verifying their orthogonality.
- To acquire the knowledge of principles of matrix algebra.
- To Know about theory of matrices and a concept of Eigen Values and Eigen vectors**.**

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Explain the basic concepts of vectorspace, subspace, Linear Transformation and Span of set.
C02	Verify the Linear independence basics and find dimensions, Rank and Nullity of the spaces.
C03	Define Inner product space and orthogonality.
C04	Apply the principles of matrix algebra to linear transformations.
C05	Find Eigen values and eigen vectors by using cayley hamilton theorem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	✓	-	-	-	✓	-	-	-	-	-	-
CO3	-	✓	-	✓	-	✓	✓	-	-	-	-	-
CO4	-	✓	-	✓	-	✓	-	-	✓	-	-	-
CO5	-	✓	-	✓	-	-	-	-	✓	-	-	-

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)		
Course Code :	20U5MCET2A	Elective 2 : Numerical Methods	**Batch**	2020-2023	
			Semester	V	
Hrs/week	5 Hours		**Credits**	3	

COURSE OBJECTIVES

To enable the Students

- To make the students understand solving Algebraic and Transcendental Equations.
- To understand the forward and backward difference table.
- To know about how and when to use various interpolation function finding the various numerical differentiation and integration formulae and using them to solve problems.
- To understand the methods of finding solution to the differential equations of various orders.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Solve Algebraic and transcental equations using various methods.
C02	Explain the forward and backward difference tables.
C03	Apply the concept of Interpolation to solve certain problems.
C04	Solve simple problems in Numerical Differentiation and Integration.
C05	Apply various methods to find numerical solution of first and second order differential equations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	✓	✓	✓	-	-	-	-	-	-
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	-	-	✓	-	-	✓	-	-	-
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓	-

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCET2B	Elective 2 : Number Theory	**Batch**	2020-2023
			Semester	V
Hrs/week	5 Hours		**Credits**	3

COURSE OBJECTIVES

To enable the Students

- To know the concepts of prime & Composite numbers.
- To understand the divisibility of integers and the Euclidean algorithm.
- To understand the concepts of Congruence and the application of Fermat and Wilson theorems.
- To understand the concept of primitive roots and use of Legendre's theorem.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Define and interpret the concept of Divisibility, common Divisor, Euclidean algorithm and least common multiple.
C02	Solving problems in primes and composites numbers.
C03	Understanding the concept of congruence.
C04	Explain theorem of fermat and wilson.
C05	Find primitive roots by using order of a (mod m) and Legendre' theorem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	-	✓	-	-	-	-	✓	-
CO2	-	✓	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	✓	-	-	-	-	-	-	-	✓

SEMESTER V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5MCET2C	Elective 2 : Digital electronics and computer fundamentals	**Batch**	2020-2023
			Semester	V
Hrs/week	5 Hours		**Credits**	3

COURSE OBJECTIVES

To enable the Students

- To understand the number system, conversion of one to the other and various course.
- To acquire Knowledge about Logic circuits and Boolean algebra.
- To know about various Input and Output devices.
- To understand in detail about RAM and REM
- To use the concepts of Boolean algebra solving certain problems.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Define the basic concepts of Number system and to conversion of Binary, Octal, Decimal and Hexadecimal.
C02	Understand the various Logical gates and their truth tables.
C03	Explain the various input and output devices.
C04	Explain about RAM and REM
C05	Solve certain problems using Boolean algebra.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	✓	✓	-	✓	-	-	-	✓
CO3	-	-	-	✓	✓	✓	-	-	-	-	-	-
CO4	-	✓	-	-	✓	✓	-	-	-	-	✓	-
CO5	-	-	✓	-	✓	✓	-	-	-	-	-	-

SEMESTER-V

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title:**	Bachelor of Science Mathematics (CA)	
Course Code :	20U5NCCT01	**Non Credit Course 1 :** Aptitude and Soft Skills I	**Batch**	2020-2023
			Semester	V
Hrs/week	3 Hours		**Credits**	-

COURSE OBJECTIVES

To enable the Students

- To acquire inter personal skills, problem solving skills and be an effective goal oriented teamplayer.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing , elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-V

Programme Code	B.Sc.Mathematics(CA)	Programme Title	Bachelor of Science Mathematics(CA)	
Course Code:	20U5SSCT03	Self Study Course III: General Awareness	**Batch**	2020-2023
			Semester	V
Hrs/ Week	-		**Credits**	1

COURSE OBJECTIVES:

- It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
- Develops a commitment to citizenship, through the ability to make informed decisions about public issues.
- Create an awareness of the achievements and perspectives of people of different nations and cultures, and of different races, genders and ethnicities.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to:

CO NO.	CO Statement
CO1	Get familiar with general awareness of the environment around him and its apply it to the society.
CO2	Reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	Have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	-	-	✓	-	-	✓	-	-	✓	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCCT18	Core :18:Complex Analysis	**Batch**	2020-2023
			Semester	VI
Hrs/week	6 Hrs.		**Credits**	5

COURSE OBJECTIVES

To enable the students

- To understand the fundamentals of analytical functions, harmonic functions.
- To acquire the knowledge of the concepts of transformations.
- To understand how to evaluate complex integration and derivative of analytic function.
- To understand the concepts of various series and types of singularities.
- To know the methods of evaluating definite integrals.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain the fundamentals of analytical functions, harmonic functions.
C02	Apply the concepts of transformations.
C03	Apply the concepts of complex integration in cauchy's theroem and derivatives of cauchy's integral formula.
C04	Compute the Taylor's and Laurent's expansions of simple functions.
C05	Find the nature of singularities and residues.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	✓	-	-	-
CO2	-	✓	-	✓	-	-	-	-	-	-	-	✓
CO3	✓	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	✓	-	-	✓	-	-	-	✓
CO5	-	-	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)		
Course Code :	20U6MCCT19	Core :19: Discrete Mathematics	**Batch**	2020-2023	
			Semester	VI	
Hrs/week	6 Hrs.		**Credits**	4	

COURSE OBJECTIVES

To enable the students

- To make the students to understand the mathematical logic in the concepts of tautology.
- To discover the concepts of set theory, relation and function.
- To learn about lattices , their types and groups.
- To understand clearly the concepts of Boolean algebra and formal languages.
- To know about the graph theory and the related problems.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Use logically valid forms of arguments to avoid logical errors by studying mathematical logic and learn the formulation of truth table and tautological implications.
C02	Explain the different types of sets and understand the concepts of relation and functions.
C03	Understand the concepts of posets, lattices, boolean algebra and groups.
C04	Explain the concepts of languages and grammars and their types.
C05	Explain the basic definitions of graph theory, types of graphs and trees.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	✓	-	-	-	-	✓	-	-	
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	-	-	✓	-	-	✓	-	-	-	-
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCCT20	Title : Core 20: MATLAB	**Batch**	2020-2023
			Semester	VI
Hrs/week	5 Hrs.		**Credits**	4

COURSE OBJECTIVES

To enable the students

- To know about the basics of MATLAB.
- To understand the method of computation of matrices and vectors.
- To know about solving equations, interpolating values, analyzing data and calculation of statistical concepts.
- To understand clearly solving problems related to numerical integration and differential equations.
- To know about plotting 2D and 3D images using MATLAB.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain about basic Matlab windows and commands.
C02	Solve matrix in Matlab.
C03	Find eigen value of matrix, mean and median.
C04	Solve differential equation and integration using Matlab commands.
C05	Explain to draw graph using 2-D plots and 3-D plots.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	-	✓	-	-
CO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO3		✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
CO4	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
CO5	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCCP21	Title : Core 21: MATLAB -Practical	**Batch**	2020-2023
			Semester	VI
Hrs/week	3 Hrs.		**Credits**	2

COURSE OBJECTIVES

To enable the students

- To know how to find a solution for simultaneous equations .
- To understand the method of finding eigen values and eigen vectors for matrix
- To know how to draw a graph for equations.
- To understand clearly how to evaluate the differentiation and integration of equation.
- To understand the method of finding mean, median, mode and standard deviation.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Design a solution for given simultaneous equations.
C02	Compute eigen values and eigen vectors for the given matrix.
C03	Draw a graph for given equations using fplot and explot commands.
C04	Compute the differentiation and integration of the given equation.
C05	Compute mean, median, mode and standard deviation for the given matrix.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO3	✓	✓	✓	-	-	✓	-	-	-	-	-	-
CO4	-	✓	-	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	-	✓	-	✓	-	-	-	-	-	-

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)		
Course Code :	20U6MCET3A	Elective 3 : Optimization Techniques - II	**Batch**	2020-2023	
			Semester	VI	
Hrs/week	5 Hrs.		**Credits**	3	

COURSE OBJECTIVES

To enable the students

- To understand the application of game theory and queuing theory in real life situation and methods of solving related problems.
- To discover about various types of inventories and their control and method of calculating EOQ.
- To know about Network scheduling by PERT/CPM and their calculation.
- To understand the concepts of replacement theory and its application.
- To understand the applications of sequencing and methods of solving related problems.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Understanding theory of games.
C02	Apply the fundamental Concept of inventory control
C03	Explain about Network scheduling by PERT/CPM and their calculation.
C04	Solve Replacement Problems
C05	Explain various techniques to solve sequencing problems

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO2	✓	✓	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	-	✓	-	✓	✓	-	-	-	-	✓
CO4	✓	✓	-	✓	-	✓	✓	-	-	-	-	-
CO5	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)		
Course Code :	20U6MCET3B	Elective 3 : Actuarial Mathematics	**Batch**	2020-2023	
			Semester	VI	
Hrs/week	5 Hrs.		**Credits**	3	

COURSE OBJECTIVES

To enable the students

- To understand the basics of probability and interest, calculation of force of mortality and annuities.
- To understand the method of construction of life tables.
- To know about calculation of premium, reserves and problems related to paid – up insurance.
- To understand about the theory of population and its functions.
- To know about the various risk models.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain the basics of probability and interest, amortization and Mortage refinancing
C02	Apply the method to construct the life tables.
C03	Solve the problems related to paid – up insurance.
C04	Analyze about population functions and residual life.
C05	Explain about risk models.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	✓	-	✓	-	✓	-	-	-	-
CO3	-	✓	-	✓	-	-	-	-	✓	-	-	-
CO4	-	-	✓	-	-	✓	-	-	-	-	-	-
CO5	-	✓	-	-	✓	✓	-	-	-	-	-	-

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCET3C	Elective 3 :Information Security	**Batch**	2020-2023
			Semester	VI
Hrs/week	5 Hrs.		**Credits**	3

COURSE OBJECTIVES

To enable the students

- To know about what is information security and about the components of information system.
- To know about the various reasons for having a strong security system.
- To understand the legel, ethical and provesional issues in informaton security.
- To understand fully about risk management.
- To chalk out a plan for information security and know about the various information security blue prints.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain the basic concept of information security and its characteristics
C02	Understand the various reasons for having a strong security system.
C03	Apply the legal, ethical and provisional issues in information security.
C04	Apply knowledge in risk management and planning
C05	Apply the concept of security in various technology

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	✓	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	-	✓	✓	✓	✓	✓	-	-	-	-	-
CO5	-	-	✓	✓	-	✓	✓	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCET4A	Elective 4 :Fuzzy Mathematics	**Batch**	2020-2023
			Semester	VI
Hrs/week	5 Hrs.		**Credits**	3

COURSE OBJECTIVES

To enable the students

- To know about the fuzzy sets and significance of paradigm shift from classical to fuzzy sets.
- To understand the properties of fuzzy sets.
- To know about the various types of operations on fuzzy sets.
- To know fully about fuzzy relations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Understand the basic concept of fuzzy sets and its characteristics
C02	Explain the properties of fuzzy sets
C03	Explain the various types of operations on fuzzy sets
C04	Apply Arithmetic operations in fuzzy sets
C05	Explain the fuzzy relations and its applications

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	-	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCET4B	Title : Elective 4 : Graph Theory	**Batch**	2020-2023
			Semester	VI
Hrs/week	5 Hrs.		**Credits**	3

COURSE OBJECTIVES

To enable the students

- To describe about the various types of graphs and operations on them.
- To illustrate the various types of trees and their properties.
- To demonstrate the concepts of planar and dual graph.
- To construct the matrix representation of graphs.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain the concepts of graph and operations on graph.
C02	Apply the concepts of tree and calculation of the distance in tree.
C03	Explain the concepts of spanning tree.
C04	Explain the concepts of Planar and Dual graph
C05	Understand the Matrix Representation of Graphs.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	-
CO4	-	-	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6MCET4C	Elective 4 : Computer Networks	**Batch**	2020-2023
			Semester	VI
Hrs/week	5 Hrs.		**Credits**	3

COURSE OBJECTIVES

To enable the students

- To know about various types of network, hardware, reference models and comparison between them.
- To understand the various types of transmission and protocols.
- To know about the basic concepts of cryptography and its applications.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Explain about the various protocols used in computer networks and hardware
C02	Explain the basic concept of physical layer
C03	Apply the knowledge in data link layer
C04	Apply the algorithms in network layer protocols
C05	Understand the basic concept of cryptography and its applications

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	-	-	-	-	-	-	-	-
CO2	✓	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	-	✓	✓	-	-	-	-	-	-	-	-
CO4	-	✓	-	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	-	✓	-	✓	-	-	-	-	-	-

SEMESTER VI

Programme Code :	B.Sc. Mathematics (CA)	**Programme Title**	Bachelor of Science Mathematics (CA)	
Course Code :	20U6NCCT02	Non Credit Course 2: Aptitude and Soft Skills II	**Batch**	2020-2023
			Semester	VI
Hrs/week	3 Hrs.		**Credits**	-

COURSE OBJECTIVES

To enable the students

- To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.
- To equip the students with the required soft skills that would instill confidence and courage inthem, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	Grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing , elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

Kovai Kalaimagal College of Arts and Science
Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

B. A. ENGLISH LITERATURE

PROGRAMME EDUCATIONAL OUTCOME (PEO),
PROGRAMME OUTCOMES (PO),
COURSE OUTCOMES (CO)

B. A. ENGLISH LITERATURE

For the Students Admitted in the Academic year 2020-2021.

Programme Educational Objectives (PEO)

The Graduates will

PEO1: Comprehend the world of English Literature in depth and diverse literary works.

PEO2: Acquire a thorough knowledge on the historical, literary and theoretical aspects of English Literature.

PEO3: Develop a flair for English Language and understand the various techniques and patterns employed in various literary works.

Programme Outcomes (PO)

After completion of three years of study, our B.A.English Literature Graduates will be able to:

PO1: Exhibit proficiency in oral and written communication.

PO2: Acquire adequate knowledge over the historical and Cultural backgrounds of English Literature around the world.

PO3: Acquire basic Computer skills such as MS Word, Excel, Power Point Presentation and Internet.

PO4: Acquire additional knowledge in other life supporting disciplines such as floriculture and Food Science.

PO5: Create innovative methodologies and thinking differently to solve any kind of complex problems for the betterment of oneself as well as the society.

PO6: Create innovative methodologies to solve complex problems for the betterment of the society through critical thinking.

PO7: An ability to function effectively and pro actively as a teams, to accomplish a common goal.

PO8: Carrying out the task assigned by the organization with professional ethics and at the same time work for the well being of the society.

PO9: Aware of one's own weaknesses and strengths, emotions and the way to control emotions to maintain good interpersonal relationships.

PO10: Undertake entrepreneurship as a desirable and feasible career option.

PO11: Realizing the responsibilities towards the society and to protect the environment, work towards for providing better living condition to the people.

PO12: Learn continuously for updating knowledge and technologies in the field of Literature and Mass Media.

SEMESTER I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code :	21U1TALT01	**Title :** Tamil - I	**Batch**	2021-2024
			Semester	I
Hrs/week	5		**Credits**	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல் புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	–	✓
CO2	-	-	-	-	✓	✓	–	✓	–	–	✓	-
CO3	-	–	-	-	✓	✓	-	–	✓	–	–	-
CO4	-	-	-	-	✓	-	-	–	–	✓	–	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

பாடத்திட்டம்

அலகு - 1 செய்யுள் திரட்டு : மரபுக் கவிதைகள் (10 மணிநேரம்)

1. பாரதியார் - புதுமைப்பெண் (பாரதியார் கவிதைகள்)
2. பாரதிதாசன் - புத்தகச் சாலை (பாரதிதாசன் கவிதைகள்)
3. கவிமணி - புத்தரும் ஏழைச் சிறுவனும் (மலரும் மாலையும்)
4. கண்ணதாசன் - பிறப்பில் வருவது (கண்ணதாசன் கவிதைகள்)

அலகு - 2 செய்யுள் திரட்டு : புதுக் கவிதைகள் (13 மணிநேரம்)

1. புவியரசு - ரகசியம் (ஒரு முக்கிய அறிவிப்பு)
2. சிற்பி - தெற்கு வளைவு பாட்டையா (ஒரு கிராமத்து நதி)
3. அப்துல் ரகுமான் - மாதிரி (ஆலாபனை)
4. வைரமுத்து - மரங்களைப் பாடுவேன் (வைரமுத்து கவிதைகள்)
5. கனிமொழி - என் வீடு (கருவறை வாசனை)
6. முத்துக்குமார் - தூர் (பட்டாம்பூச்சி விற்பவன்)
7. திலிப் குமார் - எனது மௌனங்கள் (ஒத்திகை)
8. சுடலைமணி - பிறந்தநாள் பூங்கா(நட்சத்திரக்கிழவி)

அலகு - 3 சிறுகதைத் தொகுப்பு (13 மணிநேரம்)

1. புதுமைப்பித்தன் - காஞ்சனை.
2. ராஜம்கிருஷ்ணன் - சூரியக்கதிர்கள். (பெண்மையச் சிறுகதைகள்)
3. தி.ஜானகிராமன் - சிலிர்ப்பு. (கொட்டுமேளம்)
4. பிரபஞ்சன் - எனக்கும் தெரியும் (நேற்று மனிதர்கள்).
5. முத்துலிங்கம் - தாத்தா விட்டுப்போன தட்டச்சு மிசின் (கொழுத்தாடு பிடிப்பேன்)
6. வேணுகோபால் - தீரா துயரம், (ஒரு துளி துயரம்)
7. வெ. சுப்ரமணியபாரதி - மயங்கும் மனங்கள் (மரணித்த கணவனின் டைரி)
8. தாமரை - பசுத்தோல் (சந்திரக் கதிர்கள்)

அலுகு 4 இலக்கணம், பயன்பாட்டுத்தமிழ் 12 மணி நேரம்

1. நிறுத்தற் குறிகள் இடும் இடங்கள் - காற்புள்ளி, அரைப்புள்ளி, முக்காற்புள்ளி, முற்றுப்புள்ளி, புள்ளி, உணர்ச்சிக்குறி, கேள்விக்குறி, இரட்டை மேற்கோள்குறி, ஒற்றைமேற்கோள் குறி.
2. ஒருமை, பன்மை பிழைகளை நீக்குதல், மரபு பிழைகள், வழுஉச்சொற்களை நீக்குதல், பிறமொழிச் சொற்களை நீக்குதல்.

SEMESTER I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code :	21U1HILT01	**Title :**Hindi I	**Batch**	2021-2024
			Semester	I
Hrs/week	5		**Credits**	3

COURSE OBJECTIVE:

• Improves grammatical knowledge

• Will continue to read and learn about articles and think about them

• It is possible to read and understand short stories and understand the thoughts and life of the people of this state

• Translation knowledge and the ability to read and analyze a message are also available

		Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO3	M	S	S	M	S	M	S	S	M	S	S	M
CO3	S	M	M	M	M	S	S	M	S	M	M	S
CO4	L	S	L	S	L	S	L	M	M	M	L	S
CO5	S	S	M	M	S	M	L	L	L	L	S	M

SEMESTER I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code :	21U1MLLT01	**Title :** Malayalam I	**Batch**	2021-2024
			Semester	I
Hrs/week	5		**Credits**	3

COURSE OBJECTIVE:

- Improves grammatical knowledge
- Will continue to read and learn about articles and think about them
- It is possible to read and understand short stories and understand the thoughts and life of the people of this state
- Translation knowledge and the ability to read and analyze a message are also available
- Translation knowledge and the ability to read and analyze a message are also

COURSE OUTCOME

S.No	COURSE OUTCOME	
CO1	Understand the text styles and grammatical elements	**K1**
CO2	Discuss the content of a reading passage	**K1**
CO3	Develop an interest in the appreciation of short stories	**K2**
CO4	Comprehend the grammatical structures and sentence making	**K3**
CO5	Understand the language and developing English to Malayalam translation skill	**K4**

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO3	M	S	S	M	S	M	S	S	M	S	S	M
CO3	S	M	M	M	M	S	S	M	S	M	M	M
CO4	L	S	L	S	L	S	L	M	M	M	L	S
CO5	S	S	M	M	S	M	L	L	L	L	M	M

SEMESTER-I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U1ENLT01	**Language 2:**Functional English – I	**Batch**	2021-2024
Hrs/ Week	5 Hrs		**Semester**	I
			Credits	3

COURSE OBJECTIVES:

- to enable the students to understand the basic grammar in English.
- to acquaint students with the structure and strategies of conversation
- to make the students appreciate the significant works and style of prose
- to develop the skills of speaking and writing without flaws.
- to develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	-	-	✓	✓	-	✓	-	✓	-
CO2	-	✓	-	✓	-	✓	-	-	✓	-	-	✓
CO3	✓	-	✓	-	✓	-	✓	✓	✓	✓	-	✓

SEMESTER-I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U1ENCT01	**Core 1:**Poetry	Batch	2021-2024
			Semester	I
Hrs/ Week	6 Hrs		Credits	4

COURSE OBJECTIVES:

- To enable the students to understand and appreciate poetry as a literary form. Analyse the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.
- To appreciate the imagination of the poets by reading their poems and enjoy the richness of English language**.**

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	apply various elements of poetry namely imagery, figurative language, tone, sounds and rhythm while writing the poem.
CO2	write simple poems.
CO3	describe the learnt terms and techniques in writing poetry.
CO4	develope the creative writing by referring outstanding works and authors.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	✓	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	-	✓	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER-I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U1ENCTO2	**Core 2:** Novel	**Batch**	2021-2024
			Semester	I
Hrs/ Week	6 Hrs		**Credits**	4

COURSE OBJECTIVES:

- To inspire a love of fiction in students, to open up their minds, to stimulate the empathic imagination by allowing them to see the world through other's eyes as well to foster intercultural dialogue.
- To understand the human emotions and would be able to respect the values of life

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Develop an understanding of fiction
CO2	Familiarize students with the cultural diversity of the world and to extend various perspective readings
CO3	Develop themselves into being humane.
CO4	familiarize with the elements of life like marriage, love, friendship, gender, nostalgia and free will and how to deal with it

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	-	✓	-	✓	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	✓	-
CO3	✓	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	✓

SEMESTER-I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U1ENAT01	**Allied I:** Social History of England	**Batch**	2021-2024
			Semester	I
Hrs/ Week	6 Hrs		**Credits**	5

COURSE OBJECTIVES:

- To enable the students to understand the social history of England which helps them to understand the background of English Literature.
- To understand the revolutionization which happened in the previous centuries that led to the development of the century at present.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Get familiar with different life styles and social events in England.
CO2	Evaluate the growth and development of England in different ages.
CO3	analyze a comprehensive view of social and cultural changes in an Era vital to the development of political, economic, religious and intellectual histories of the period.
CO4	analyze the revolutionary and social changes that took place in the history of England.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	-	✓	-	-	-	✓	-
CO2	-	-	-	-	-	✓	-	-	-	✓	-	-
CO3	-	✓	-	-	-	-	-	✓	-	-	-	-
CO4	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - I

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U1VBET01	**Value Based Education 1** : Environmental Studies**	Batch	2021-2024
			Semester	I
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation.
- To make the students know on various types of environmental pollution, their causes, effect their prevention and the students' role in the same.
- To make the students to know about the various eco system.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make the others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER II

Programme Code	**B.A. English Literature**	**Programme Title**	**Bachelor of English Literature**	
Course Code :	21U2TALT02	**Title :** Tamil – II	**Batch**	2021-2024
			Semester	II
Hrs/week	5		**Credits**	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல் இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	–	✓
CO2	–	-	-	-	–	✓	✓	–	–	–	✓	-
CO3	–	–	-	-	–	–	-	–	–	–	✓	-
CO4	-	-	-	-	✓	-	-	–	–	✓	–	-
CO5	✓	-	-	-	-	-	-	-	✓	–	-	-

SEMESTER II

Programme Code	**B.A. English Literature**	**Programme Title**	**Bachelor of English Literature**	
Course Code :	21U2HILT02	**Title :** Hindi II	**Batch**	2021-2024
			Semester	II
Hrs/week	5		**Credits**	3

COURSE OBJECTIVES:

- A basic understanding of contemporary poetry can be gained and the nature of modern poetry can be realized.
- Realizing the nature of drama and its nature and improving the knowledge of reading and understanding the nature of contemporary plays.
- Understands the benefits of correspondence and can enhance the correspondence you need.
- Translation is especially useful for translating from Hindi to English

COURSE OUTCOME

S.No.	COURSE OUTCOME
CO1	Understand the text styles and grammatical elements
CO2	Discuss the content of a reading passage
CO3	Develop an interest in the appreciation of short stories
CO4	Comprehend the grammatical structures and sentence making
CO5	Understand the language and developing English to Hindi translation skill

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO3	M	S	S	M	S	S	S	S	M	S	S	M
CO3	S	M	M	M	M	S	S	M	S	M	M	M
CO4	L	S	L	S	L	S	L	M	M	M	L	S
CO5	S	S	M	S	L	S	S	S	S	S	M	S

SEMESTER II

Programme Code	**B.A. English Literature**	**Programme Title**	**Bachelor of English Literature**	
Course Code :	21U2MLLT02	**Title :** Malayalam II	**Batch**	2021-2024
			Semester	II
Hrs/week	5		**Credits**	3

COURSE OBJECTIVE:

- A basic understanding of contemporary poetry can be gained and the nature of modern poetry can be realized.
- Realizing the nature of drama and its nature and improving the knowledge of reading and understanding the nature of contemporary plays.
- Understands the benefits of correspondence and can enhance the correspondence you need.
- Translation is especially useful for translating from English to Malayalam

COURSE OUTCOME

S.No.	**COURSE OUTCOME**	**Blooms Level**
CO1	Get a basic understanding of Memories	**K1**
CO2	It will create basic knowledge about Environmental Psychology.	**K1**
CO3	It will create awareness about our environment.	**K2**
CO4	Knowledge is gain about our country, culture etc	**K3**
CO5	It will be an eye opener to the students towards our Mother Earth.	**K4**

Mapping with Programme Outcomes

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO3	M	S	S	M	S	S	S	S	M	S	S	S
CO3	S	M	M	M	M	S	S	M	S	M	M	M
CO4	L	S	L	S	L	S	L	M	M	M	S	L
CO5	S	S	M	S	L	S	S	S	S	S	S	M

SEMESTER-II

Programme Code	**B.A. English Literature**	**Programme Title**	**Bachelor of English Literature**	
Course Code:	21U2ENLT02	**Language 2:** Functional English II	**Batch**	2021-2024
			Semester	II
Hrs/ Week	5 Hrs		**Credits**	3

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation.
- To make the students appreciate the significant works and style of prose.
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	-	-	-	-	✓	-	✓	–	✓
CO2	✓	-	-	-	-	✓	-	-	-	-	✓	-
CO3	-	-	✓	-	-	-	-	-	✓	-	-	✓

SEMESTER-II

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U2ENCT03	**Core 3:** Prose	**Batch**	2021-2024
			Semester	II
Hrs/ Week	6 Hrs		**Credits**	4

COURSE OBJECTIVES:

- To enable the students to extend their knowledge of vocabulary and structures and to become more proficient.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	apply the intricacies of prose in English Literature.
CO2	describe the methodology of prose writing.
CO3	develop the style of English prose in their written communication.
CO4	apply and implement the in-depth knowledge on the classical writers.
CO5	apply the style of prose in English Literature.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	✓	-	-	-
CO2	-	-	✓	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER-II

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U2ENCT04	**Core 4:** Drama	**Batch**	2021-2024
			Semester	II
Hrs/ Week	6 Hrs		**Credits**	4

COURSE OBJECTIVES:

- To develop a taste for reading drama with a theoretical basis, and to enter imaginatively into other worlds, to consider issues and to explore relationships from the points of view of different people
- To develop a critical understanding of drama and various kinds of theatre and a range of dramatic skills and techniques.
- Todevelop knowledge of Theatre history and dramatic literature.
- To develop ethics, values and responsibilities of a Theatre artist.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Explore the diversity of drama and its intersection with community culture and society.
CO2	Foster a strong sense of involvement which motivates and encourages students to learn through active participation
CO3	analyze a play from a directorial point of view – playing particular attention to given circumstances, environmental facts and character analysis.
CO4	Develop confidence and self-esteem in their relationships with others and sensitivity towards others

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	✓	-	-	-
CO3	-	✓	-	-	✓	-	-	✓	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-

SEMESTER-II

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code:	21U2ENAT02	**Allied 2:** History of English Literature	**Batch**	2021-2024
			Semester	II
Hrs/ Week	6 Hrs		**Credits**	4

COURSE OBJECTIVES:

- To enable the students to understand the history of English literature down the ages and to enrich the students with a wide knowledge of the historical and biographical details of the literary stalwarts of various ages.
- To Evaluate the growth and development of English literature of different ages.
- To enable the students to study and judge the literary works in English.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Identify and examine English literature in the backdrops of the changes occurred during the period between Chaucer and Shakespeare.
CO2	Associate and classify ideas expressed in the literary texts of Jacobean and Restoration periods.
CO3	Interpret and Assess the sentiments expressed in the literary texts of Augustan period.
CO4	Analyse and Compare the literary texts of Romantic period with those of other periods.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	✓	-	-	-	-	-
CO2	-	✓	-	-	-	-	✓	-	-	-	✓	-
CO3	-	-	-	✓	-	-	-	-	✓	-	-	-
CO4	-	✓	-	-	-	-	✓	-	✓	-	-	✓

SEMESTER II

Programme Code	B.A. English Literature	Programme Title	Bachelor of English Literature	
Course Code :	21U2VBET03	**Value Based Education 3:**Ethics and Culture**	**Batch**	2021-2024
			Semester	II
Hrs/week	2		**Credits**	1

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்,குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டு, சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.

குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.

உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.

வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	–	–	-	-	✓	✓	–	-	✓	-	–	–
CO2	–	-	-	-	✓	–	–	–	✓	–	–	-
CO3	–	–	-	-	–	–	-	–	✓	–	–	-
CO4	✓	-	✓	-	–	-	-	–	–	–	–	-
CO5	✓	-	-	-	-	-	-	-	–	–	-	-

Kovai Kalaimagal College of Arts and Science
Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

DEPARTMENT OF COMMERECE

PROGRAMME EDUCATIONAL OUTCOME (PEO), PROGRAMME OUTCOMES (PO), COURSE OUTCOMES (CO)

B.COM

For the Students Admitted in the Academic year
2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

The Graduates of Commerce would be

PEO1: Occupying covenant positions in Banking, Finance, Insurance and Business process service industries.

PEO2: Occupying their tasks with professionalism and with professional ethics.

PEO3: Occupying responsible citizens with social consciousness and contributing to the welfare of the society.

PROGRAMME OUTCOMES (PO)

After completion of three years of study, our B.Com CA Graduates will be able to :

PO1: Exhibit proficiency in oral and written communication.

PO2: Prove their knowledge of accounting, business, taxation and financial management.

PO3: Exhibit their Technical Skills (such as word processing, Spreadsheet, Gambas 3,Accounting Package) in Auditing and Business Process Services by updating their knowledge with the upcoming new techniques.

PO4: Work on multidisciplinary tasks and will be aware of the new and emerging disciplines.

PO5: Prepare to take up any challenging task.

PO6: Apply technical skills in Analyzing, synthesizing and evaluating information to reach an answer or conclusion for complex business problems.

PO7: Work individually or as a team with responsibility to function effectively in multidisciplinary atmosphere.

PO8: Carry out the task assigned by the industries with professional ethics and at the same time with the concern for well being of the society.

PO9: Be aware of one's own weaknesses and strengths, emotions and the way to control emotions to maintain good interpersonal relationships.

PO10: Undertake entrepreneurship as a desirable and feasible career option.

PO11: Extend the services of the department for the betterment of the society and environmental protection.

PO12: Learn continuously for updating new knowledge and technologies in the field of commerce and computer applications**.**

SEMESTER - I

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U1TAL01	Language 1 : Tamil - I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்.
- புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்.
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

SEMESTER - I

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2HILT01	Language 1 : Hindi I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	

SEMESTER - I

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2FRLT01	Language 1 : French I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of French language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Have access to the works of great french writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - I

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2MLLT01	Language 1 : Malayalam I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to learn other Indian languages like Sanskrit,Tamil etc., through Malayalam without much effort.
CO2	develop the skills of speaking and writing without flaws.
CO3	help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - I

Programme Code	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U1ENLT01	Language 2 : Functional English – I	Batch	2020-2023
			Semester	I
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U1CMCT01**	**Core 1: Fundamentals of Organisation and Management**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To impart knowledge on business, trade and commerce.
- To make the students to understand the forms of business organisation.
- To impart knowledge about the functions of management.
- To acquire knowledge in the principles & process of organising, importance of directing and styles of leadership.
- To make the students to know the importance of staffing, process of controlling, techniques of co-ordination,steps in decision making and theories of motivation.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of business, trade and commerce.
CO2	Explain the various forms of business organisation.
CO3	Describe the levels of management and indicate the importance of planning.
CO4	Tell clearly what are the principles & process of organising, importance of directing and styles of leadership.
CO5	Brief clearly about the importance of staffing, process of controlling, techniques of co-ordination, steps in decision making and theories of motivation.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	✓	-	✓
CO2	-	✓	-	-	-	-	-	-	-	✓	-	-
CO3	-	✓	-	-	-	-	✓	-	✓	-	-	-
CO4	-	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO5	-	✓	-	-	✓	✓	✓	-	✓	-	-	✓

SEMESTER - I

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U1CMCT02**	**Core 2 : Financial Accounting - I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To make the students understand the basic accounting concepts and conventions.
- To enable the students to differentiate cash and credit transactions.
- To enable the students to prepare the final accounts of a sole trader.
- To impart knowledge in the concepts of consignment and joint venture.
- To enable the students to prepare the final accounts.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic Accounting concepts and the procedure to prepare journal and ledger.
CO2	Classify the cash transactions and credit transactions of a Business.
CO3	Prepare Final Accounts of sole proprietor concern.
CO4	Explain the concepts of consignment and Joint venture.
CO5	Prepare Bank Reconciliation Statement and accounting for Non-profit organisation.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U1CMCT01**	**Allied 1:Business Economics**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the students to understand about various economic concepts in business economics.
- To acquire a knowledge in the Concept of Demand and Supply.
- To make the students to understand the Production function Concepts.
- To Provide knowledge o Marker Structures.
- To familiarise the students with the Price Determination under perfect and Imperfect Competitions.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	**CO Statement**
CO1	Gathering extensive knowledge on application of Economic Concepts in Business.
CO2	Examine the Supply and Demand analysis and its impact on Economic Issues.
CO3	Describe the Production function and Cost estimates and their application to the Industries .
CO4	Classify the Market Structure and enumerating the Pricing Methods on the basis of various pricing policies.
CO5	Demonstrating the Price Determination under Perfect and Imperfect Competitions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	-	✓	-	-	-	-	-	-	-	-
CO2	-	✓	-	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	-	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	-	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	-	✓	-	✓	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U1VBET01	Value Based Education 1: Environmental Studies	Batch	2020-2023
			Semester	I
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation.
- To make the students know on various types of environmental pollution, their causes, effect their prevention and the students' role in the same.
- To make the students to know about the various eco system.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make the others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U1NMET01**	**Non Major Elective 1 : Food Science and Nutrition**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVES

- To understand the importance of Nutrition and the role of food in the maintenance of good health.
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about clasification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER - I

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U1SBST01**	**Skill Based Subject 1 : Mathematics For Competitive Examinations - I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES

- understand the fundamental arithmetic skills and problem solving.
- learn about the average and Problems on numbers.
- solve problem related to Ages, Calendar and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races, games of skills, stocks and shares.
CO3	Find solution to the problems on calendar and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER - II

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U2FRLT02**	**Language 2 : French II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of French language.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	**CO Statement**
CO1	have access to the works of great french writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - II

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2HILT02	Language 2 : Hindi II	Batch	2020-2023
			Semester	II
Hrs/week	5		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - II

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U2MLLT02**	**Language 2 :Malayalam II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5**		**Credits**	**3**

COURSE OBJECTIVES

To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	**CO Statement**
CO1	help the learners to learn other Indian languages like Sanskrit,Tamil etc., through Malayalam without much effort.
CO2	develop the skills of speaking and writing without flaws.
CO3	help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - II

Programme Code	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U2ENLT02	Language 2 :Functional English – II	Batch	2020-2023
			Semester	II
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in english.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	✓

SEMESTER - II

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2CMCT03	Core 3 :Principles of Marketing	Batch	2020-2023
			Semester	II
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To make the students understand about the modern marketing and marketing concepts.
- To know clearly about the Functions of Marketing.
- To Familiarize the Concepts of Marketing Mix and channels of distribution
- To enlighten the students on consumer behaviour and rights of consumers.
- To provide knowledge on advertisement and its impact on business.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concepts of marketing and various types of marketing.
CO2	Enumerate the functions of Marketing.
CO3	Describe the 7 P's of marketing mix.
CO4	Identify the need for studying Consumer Behaviour and Market Segmentation.
CO5	Demonstrate the advantages of advertising.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P11	P12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	✓	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	✓	-
CO5	-	✓	-	-	-	-	-	-	-	-	✓	-

SEMESTER - II

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U2CMCT04**	**Core 4 : Financial Accounting - II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To gain knowledge about the various methods of calculating depreciation and about accounting standards.
- To enable the students to know how to find out the average due date, account current and preparation of bills of exchange.
- To know about the methods under single entry system.
- To provide knowledge in the preparation of departmental and branch accounts.
- To make the students to prepare hire purchase and voyage account.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Numer	**CO Statement**
CO1	Calculate Depreciation and Reserves and Provisions.
CO2	Calculate the Average Due Date and Prepare Bills of Exchange.
CO3	Prepare the accounts using Single Entry system.
CO4	Computation of Departmental Accounts and Branch accounts.
CO5	Prepare the Hire purchase and Voyage accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	

SEMESTER - II

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2CMAT02	Allied 2 : Information Technology in Business	Batch	2020-2023
			Semester	II
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To enable the students to know the importance of computers used in business.
- To gain knowledge in input and output devices.
- To provide knowledge on hardware and software systems.
- To create awareness about office automation packages.
- To acquire knowledge in the concept of networking.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Computer terminology used in business.
CO2	Classify and compare the types of computer systems.
CO3	Enumerate the types of hardware and software.
CO4	Summarise new technology for shaping new strategies and business models.
CO5	Describe the network and its types.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	PO11	PO12
CO1	-	-	-	✓	-	-	-	-	-	-	-	-
CO2	-	-	-	✓	-	-	-	-	-	-	-	-
CO3	-	-	✓	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	-	✓	-	-	-	-	-	-	-	-
CO5	-	-	✓	✓	-	-	-	-	-	-	-	✓

SEMESTER - II

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U2VBET03	Value Based Education 3 : Ethics and Culture (அறவியலும் பண்பாடும்)	Batch	2020-2023
			Semester	II
Hrs/week	2 Hrs		Credits	1

Ethics and Culture (மனிதவள மாண்பு - தனிமனித விழுமியங்கள்இசமுதாய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டுஇ சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தையும் உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக வாழ்ந்து நமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- கவலைக்கு ஆதாரமான ஆசை மற்றும் சினம் ஆகியவற்றைத் தவிர்ப்பதன் மூலம் கவலையை ஒழிப்பதற்கான பயிற்சி பெறுதல்
- கல்வி, அரசியல், பொருளாதாரம் மற்றும் விஞ்ஞானம் ஆகியவற்றுக்கும் சமுதாயத்திற்கும் உள்ள தொடர்பினை அறிந்து கொள்ளுதல்

COURSE OUTCOME (CO)

CO Number	CO Statement
CO1	தன்னை உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	தனி மனித ஒழுக்கங்களை அறிந்து, முறைப்படி வாழ்ந்து சமுதாயத்தில் தங்களை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளச் செய்தல்.
CO4	சமுதாயத்தோடு இணக்கமாக வாழவும், சுயசிந்தனை, ஆற்றலை வளர்த்து பிரச்சினைகளுக்குத் தீர்வுகாணவும் வழி வகுத்தல்.
CO5	போட்டிகள் நிறைந்த இவ்வுலகில் சமுதாயம், அரசியல், பொருளாதாரம் ஆகிய சூழல்களைத் துணிச்சலாக எதிர்கொள்ள தன்னம்பிக்கையை வழங்குதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	-	-	-	-	✓	✓	-	✓	✓	-	-	-

SEMESTER - II

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U4NMET02	Non Major Elective 2 - Floriculture	Batch	2020-2023
			Semester	II
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVES

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals & Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken, as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER – II

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U2SBST03**	**Skill Based Subject 3 : Mathematics For Competitive Examinations –II**	**BATCH**	**2020-2023**
			SEMESTER	**II**
Hrs/week	**2 Hrs**		**CREDITS**	**1**

COURSE OBJECTIVES

- To know about concept of Interest and Profit and loss.
- To develop the ability in solving Permutation, Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER - III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U3CMCT05**	**Core 05 : Cost Accounting**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**5 Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To enlighten the students on various methods of costing.
- To make the students to calculate the stock level and Pricing of Material issues.
- To enable the students to compute the labour turnover and know about distribution summary.
- To understand the methods of costing adopted by different types of industries.
- To make the students to reconcile cost and financial statement.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Prepare the cost sheet, Tender and Quotation
CO2	Calculate the Stock Levels and Pricing of Material Issues.
CO3	Calculation of labour turnover and Overhead distribution summary.
CO4	Computation of Process Costing and Operating Costing.
CO5	Prepare the Job Costing ,Standard Costing and Reconciliation of cost and financial accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER – III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U3CMCT06**	**CORE 6 : Commercial Law**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**6 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to acquire knowledge on legal aspects of business.
- To gain knowledge in concepts of Performance, Discharge and breach of contract.
- To impart knowledge about the contract of agency.
- To familiarise the concept of indemnity, guarantee, bailment and pledge.
- To make the students aware about the contract of sale and Hire purchase.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain clearly the basic concepts of commercial Law, ,Build Operate and Transfer.
CO2	Demonstrate the knowledge about the Capacity, Performance, Discharge and Breach of contract.
CO3	Classify the agents and relationship with Principal and third parties.
CO4	Explain the concepts of Guarantee, Indemnity, Bailment and `Pledge.
CO5	Explain the concept of law of Sale of Goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U3CMCT07**	**Core 7 : Financial Accounting - III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**6 Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To enable the students to learn the accounting procedures of partnership firm.
- To provide thorough knowledge on settlement procedures of partnership firm.
- To impart knowledge about Dissolution of Partnership Firms.
- To Familiarise the students about Fire insurance Claims and Insolvency.
- To make the students understand about human resources accounting and inflation accounting.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To make revaluation of Assets and liabilities of a partnership firm and calculate the ratios for distribution of profits.
CO2	Calculation of dues to be settled in the event of retirement or death of the partner.
CO3	Explain the grounds under which a partnership firm can be dissolved.
CO4	Throw light on insolvency and fire claims.
CO5	Explain the Human Resource Accounting and Inflation Accounting.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER - III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U3CMCP08**	**Core 8 : Business Application Software - Practical**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students know how to prepare the chairman's speech, Auditors report, minutes of a meeting, invitation, invoice, class timetable etc., using Word Processing.
- To make the students understand the method of preparing mark list, final accounts, different types of charts, bank customers account etc., using spreadsheet.
- To make the students clearly know the preparation of power point for different occasions.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Type chairman's speech, Auditors report, minutes of the meeting, prepare an invitation, design an invoice, prepare a class timetable and convert document word format into a Portable Document Format and a Portable Document Format into a word document.
CO2	Using spreadsheet prepares a mark list of a number of students; final accounts draw different types of chart and create a pivot table.
CO3	Prepare power point presentation for various occasions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	-	-	-	-	-	-	✓
CO2	-	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	-	✓	-	-	-	-	-	-	-	-	✓

SEMESTER - III

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U3CMAT03	Allied 3 : Business Mathematics	Batch	2020-2023
			Semester	III
Hrs/week	6 Hrs		Credits	4

COURSE OBJECTIVES

To understand the basic concepts of set theory, Simple Interest and Compound Interest
To know the basic concepts of Matrices and Solution of Linear Equations using matrices
To learn the concept of differentiation of algebraic functions and its uses in business problems
To Evaluate of definite and indefinite integrals applicable to business problems.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concepts of set theory and solving problems in sequence and series.
CO2	Apply the concepts of simple interest and compound interest in real life problems
CO3	Recollect the basic definition and types of matrices and solve linear equations using matrix method.
CO4	Apply the concept of differential calculus in solving business problems.
CO5	Apply the knowledge of integral calculus in solving simple problems.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-
CO4	-	-	-	-	-	✓	-	-	-	-	-	-
CO5	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U3SBST05**	**Skill Based Subject 5 : Mathematics for Competitive Examinations –III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES

To make the students to know the concept of Pipes, Cistern and Probability.

To solve problem related to Problems on Boats and Streams.

To make the students to know the concept of Alligation or mixture, Problem of Heights and distance, odd man out series.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Solve the problems on pipes and cistern.
CO2	Solve the problems on time and distance, train, boats and stream.
CO3	Apply the concept of Alligation, height & distance to solve certain types of problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER - III

அடிப்படைத் தமிழ்

பகுதி – ஐஏ : தமிழ்த்தாள் - 1 - மூன்றாம் பருவம்

(12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு)

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம் :

- தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
- சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
- தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
- வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-

சிறப்புத் தமிழ்

பகுதி – ஐஏ : தமிழ்த்தாள் - 1 – மூன்றாம் பருவம்
(12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு)

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - ஊழரசளந ழுரவஉழஅந (ஊழு)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

epuy; tpisTfisf; nfhz;l tiuglk;

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER - III

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U3SSCT1A	Self study Course – I மனித வாழ்க்கையும் காந்தியடிகளும்	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

- மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
- இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
- மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
- நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
- காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குாந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U6SSCT1B	Self study Course – III வ.உ.சிதம்பரனாரின் வாழ்க்கை வரலாறு	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

1. வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
2. சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
3. வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
4. வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
5. விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேருன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO 7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code:	**20U3SSCT1C**	**Self study Course – III** நேதாஜி சுபாஷ் சந்திரபோஸின் வாழ்க்கை வரலாறு	**Batch**	**2020 - 2023**
			Semester	**3**
Hrs/ Week	**-**		**Credits**	**1**

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.
5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	**CO Statement**
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U3SSCT1D	Self study Course – III ஆ.ப.ஜெ. அப்துல் கலாமின் வாழ்க்கை வரலாறு	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும் தேசப்பற்றை வளர்த்தல்
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்
5. ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com	Programme Title		
Course Code:	20U3SSCT1E	Self study Course – I ஈ.வெ.ரா பெரியாரின் வாழ்க்கை வரலாறு	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.

நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.

அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.

பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.

சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com	Programme Title		
Course Code:	20U3SSCT1F	Self study Course – I காமராஜரின் வாழ்க்கை வரலாறு	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

- காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.
- காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.
- உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.
- காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.
- திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER – IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4CMCT09**	**Core 9 : Corporate Accounting**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To enable the students to be aware of shares issues and underwriting of shares.
- To make the students to know how to prepare journal entries in issue of preference shares and debentures.
- To prepare the final accounts of a company.
- To make students to know various methods of valuation of goodwill and shares.
- To make the students know about liquidation of companies and accounting standards for reporting.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of shares and the procedure to prepare journal and ledger.
CO2	Prepare journal entries for Issue of preference shares and debentures.
CO3	Prepare final accounts of a company.
CO4	Compute the value of goodwill and shares using different methods.
CO5	Prepare liquidator's final statement of accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER – IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4CMCT10**	**Core 10 : Company Law and Secretarial Practice**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To impart knowledge about the provisions of the Companies Act 2013, 2015 & 2018.
- To provide knowledge about the role of directors and their powers.
- To make the students understand the powers, duties & liabilities of a Company Secretary.
- To make the students know about conducting various meetings of the company and role of Company Secretary.
- To acquire knowledge about various modes of winding up of a company.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the formation of companies, Memorandum of Association and Articles of Association.
CO2	List out the powers, duties and liabilities of directors.
CO3	Explain the role of company secretary.
CO4	Classify the company meetings and write the minutes of a meeting.
CO5	Explain the various modes of winding up of a company.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER – IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4CMCP11**	**Core 11 : Tally – Practical**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students know how to create a company and various ledgers, accounting & inventory vouchers using Tally.
- To make the students understand to prepare the bill wise statements, bank reconciliation statement using tally.
- To make the students clearly know the calculation of cost allocation using tally.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Create a company with various ledgers, accounting vouchers & inventory vouchers .
CO2	Prepare the bill wise statements, bank reconciliation statement for various companies.
CO3	Make the students to calculate the various cost of production.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5		✓	✓			✓	-	-	-	-	-	✓

SEMESTER – IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4CMCT12**	**Core 12 : Industrial Law**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to have an overview of Factories Act 1948.
- To know the features of the Industrial Dispute Act & The Trade Union Act.
- To know about the payment of Wages Act 1936.
- To Learn about the payment of Bonus Act and the Employees' State Insurance Act.
- To create awareness about the Workmen's Compensation Act.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Enumerate the provisions and powers relating to Factories Act.
CO2	Explain the concept of Industrial Dispute Act and Trade Union Act.
CO3	Describe the mode of payment under Payment of Wages Act.
CO4	Determine the bonus under Payment of Bonus Act.
CO5	Examine the Employer's Liability and Non-Liability under The Workmen's Compensation Act.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	✓	-	-	-	✓
CO2	-	✓	-	-	-	-	-	✓	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5		✓	-			-	-	-	-	-	-	✓

SEMESTER - IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4CMCT13**	**Core 13 : Executive Business Communication**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To familiarise the essentials of effective business letters.
- To make the students understand how to make trade enquiries, complaints and writing circulars.
- To make the students to know how to make correspondence with banks, insurance companies and various agencies.
- To explain how the reports are prepared by individuals, Committees, Secretary, Executive Heads and preparation of press reports.
- To make the students to know about the part played by the technology in making effective communication and its uses.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Write various business letters.
CO2	Make trade enquiries, write collection & sales letters and make complaints.
CO3	To explain how to make correspondence with banks, insurance companies and various agencies.
CO4	To prepare various reports such as reports by individuals, Committees, Executive Heads, officers including the press reports.
CO5	To make use of various electronic devices for effective communication

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓
CO4	✓	-	-	-	-	-	-	-	-	-	-	✓
CO5	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER - IV

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U4CMAT04	Allied 4 : Business Statistics	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

1. To know the meaning and definition of Statistics and about various Statistical methods.
2. To have a clear idea on Correlation between variables and Regression analysis.
3. To know various components of Time series, Method of determining the same, concept of Index numbers , various types and their calculations.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the meaning and definition of Statistics and various statistical methods
CO2	Estimate the Statistical constants.
CO3	Define Correlation and Regression between two variables, their calculation and uses.
CO4	Explain the Time Series analysis and its uses
CO5	Explain types of Index Numbers, their calculations, and their uses.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER - IV

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U4SBST07**	**Skill Based Subject 7 : Mathematics For Competitive Examinations - IV**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES

- To make the students to know the methods of solving Problems of Interest and Venn Diagrams.
- To solve problems related to one Sequence and series.
- To develop the skills in solving problems for checking ones Mental Ability and Logical reasoning.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explicate the concept of finance and discover the inference using Venn- diagram.
CO2	Solve the problems on logarithms,area,Volume, Sequence and series.
CO3	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	✓	-	-	-	✓	-	-
CO2	✓	-	-	-	-	✓	-	-	-	✓	-	-
CO3	✓	-	-	-	-	✓	-	-	-	✓	-	-

அடிப்படைத் தமிழ்

பகுதி – ஐஏ : தமிழ்த்தாள் - 2 – நான்காம் பருவம்

(12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு)

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.
- தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.
- தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.
- தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்ககை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

சிறப்புத் தமிழ்

பகுதி – ஐஏ : தமிழ்த்தாள் - 2 – நான்காம் பருவம்

(12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு)

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.

திருக்குறளின் சிறப்பை அறியச் செய்தல்.

சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.

பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.

மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபு பிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

epuy; tpisTfisf; nfhz;l tiuglk;

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	✓	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	✓	-	✓	✓	-	-

SEMESTER- IV

Programme Code:	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U4SSCT2A	Self Study Course 2 : Women's Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

4. To make the women students understand the legal systems, constitutional frame work and human rights in India.
5. To understand and appreciate the women's claims to land and their right to property.
6. To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
7. To give knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	B.Com	Programme Title	Bachelor of Commerce	
Course Code:	20U4SSCT2C	Self Study Course 2: Human Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

- To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	develop skills on human rights advocacy.
CO2	appreciate the relationship between rights and duties.
CO3	foster respect for tolerance and compassion for all living creature.
CO4	create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMCT14**	**Core 14 : Banking Theory**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To know the importance of banking in economic development and functions of commercial banks.
- To know about the relationship between various types of customer and banker. Also know about bill of exchange and its characteristics.
- To know fully about the negotiable instruments.
- To know clearly about RBI, Commercial banks and their functions.
- To understand clearly about demonetization and various forms of cashless transactions.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain meaning, definition, types and importance of banking.
CO2	Explain about relationship between banker and customer, opening and closure of accounts, bill of exchange and its characteristics.
CO3	Explain about the various negotiable instruments and the statutory protection provided for the same.
CO4	Explain the functions of RBI and commercial banks.
CO5	Explain about advantages & disadvantages of demonetization and various cashless transactions.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMCT15**	**Core 15 – Taxation - I**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To make the students understand recent amendments in Income Tax.
- To make them know how to compute taxable income.
- To calculate the income from House Property, Business and Profession.
- To learn about the concept of Capital Gain.
- To provide adequate knowledge on tax filing**.**

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Income tax Act, Assessment year, Calculation of Total Income and Exempted Income.
CO2	Explain the Computation of taxable salary.
CO3	Calculate the Taxable Income from House Property, Profits & Gains of Business or Profession.
CO4	Explain how to calculate capital gains and its deduction from Gross Total Income.
CO5	Demonstrate how to file income tax returns.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMCT16**	**Core 16 : Principles of Auditing**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To understand the fundamental concepts of auditing, its advantages and recent trends in auditing.
- To know clearly about internal control, internal check and internal audit.
- To learn about vouching & its importance and various types of vouchers.
- To make the students to know about how verification and valuation of assets and liabilities is made and the role of auditors in it.
- To know about how the company auditor is appointed and his duties and responsibilities.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To explain about what is audit, its types and recent trends.
CO2	The students must be able to conduct internal audit.
CO3	Prepare different types of vouchers.
CO4	Explain how verification and valuation of assets and liabilities are made and the role of auditor in it.
CO5	Explain how the audit of various institutions is made by a company auditor and the preparation of audit report.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMCT17**	**Core 17 : Higher Corporate Accounting**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To Know about the Procedure of Amalgamation of Companies and Purchase of Companies.
- To know about the preparation of accounts of Holding Companies.
- To Know about the preparation of final accounts of Banking Companies.
- To know about the preparation of final accounts of Insurance Companies.
- To know about the Double Accounts System followed in Electricity Companies.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about amalgamation of companies and the different methods followed for the same.
CO2	Prepare accounts for holding companies.
CO3	Prepare final accounts of banking companies.
CO4	Prepare final accounts of insurance companies.
CO5	Apply double account system for preparing accounts of electricity companies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	-

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMET1A**	**Elective 1 : Business Research Methods**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To know what is business research and its types. Understand how to formulate research problems.
- To know about various sampling methods and methods of data collection.
- To know about various measurement and scaling techniques, statistical tools used in research and steps in drafting reports.
- To know the calculation of various statistical constants.
- To know how to use large and small tests of significance.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the business research, its types and how to formulate research problems.
CO2	Explain the methods of sampling and data collection.
CO3	Explain the measurement & scaling techniques and statistical tools used in research
CO4	Calculate various constants such as averages, measures of dispersion, correlation and construction of regression lines.
CO5	Apply various test of significance for drawing meaningful inferences.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - V

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U5CMET1B	Elective 1 : Strategic Management	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To make the students understand about the business environment, business policy and strategic management.
- To make the students know about the strategic analysis and strategic planning.
- To know about various forms of functional strategy.
- To know about the implementation and control of a strategy formulated in an organisation.
- To understand clearly about Business Process Reengineering and total quality management.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about the business environment, business policy and strategic management.
CO2	Explain how to make strategic analysis and strategic planning.
CO3	Explain how to formulate various functional strategy.
CO4	Explain how to implement and control of a strategy formulated in an organisation.
CO5	Explain the business process reengineering and total quality management.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMET1C**	**Elective 1 : Corporate Compliance Management**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students understand the concept, importance and the approach to compliance management.
- To make the students to know fully about due diligence, its importance & scope and its areas. Also make them to know about IPO, EPO & ESOP.
- To enable the students to know about the secretarial audit.
- To gain knowledge about importance of document verification.
- To know fully about setting up of business unit in India and abroad.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept, importance and the approaches to compliance management.
CO2	Explain the importance, scope of due diligence, IPO, EPO & ESOP.
CO3	To demonstrate the students knowledge about the secretarial audit.
CO4	Explain how to verify the important documents and prepare a report.
CO5	Explain how to set up business.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U5CMET2A	Elective 2 : Financial Markets	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To enable the students to understand about the various Financial Markets.
- To make the students to know about the capital market, stock exchange and their functions.
- To know about various credit rating agencies of India.
- To know about various functionaries of stock exchange.
- To provide knowledge about financial services, SEBI and various types and functions of credit rating.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To make the students explain what did he understand about various financial capital markets.
CO2	Explain about capital market, security market and their functions.
CO3	To make students explain what does he know about Credit Rating Agencies.
CO4	Explain the functions of stock exchanges.
CO5	Demonstrate his knowledge on Financial Services, SEBI and Credit Rating.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMET2B**	**Elective 2 : Retail Marketing**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students understand the importance and scope of retailing, challenges and opportunity to a retailer.
- To make the students understand the organised and unorganised retail formats and role of MNC's in retailing.
- To enable the students to know the various stages in establishing a retail shop.
- To make the students understand managing various aspects of retailing and its promotion.
- To make the students in analysing of profile of retail shopper and challenges in retailing in India.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describe the concept of retailing and challenges & opportunities for a retailer.
CO2	Explain the various organized and unorganized retail formats and role of MNCs in retailing.
CO3	Explain management at various stages of a establishing a retail business.
CO4	Tell about how to promote a retail business and about emerging trends in retail business.
CO5	Explain how to analyse a shoppers profile and what are the challenges in retailing in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - V

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U5CMET2C**	**Elective 2: Cost Audit**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To acquire the knowledge about meaning, scope, nature, purpose, advantages and disadvantages of cost audit.
- To make the students understand the techniques and programmes following cost audit.
- To know about qualification, rights, responsibilities and functions of a cost auditor.
- To make the students to know about preparation of cost audit reports and statutory provisions of cost audit rules.
- To know about other areas of audit such as Human Resource audit, Operational audit forecast audit etc.,

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define cost audit and explain the difference between cost audit, financial audit and management audit.
CO2	Explain the techniques and programme followed in cost audit and also about faces / stages of cost audit.
CO3	Tell clearly about rights, responsibilities and function of a cost auditor.
CO4	Explain the different aspects of cost audit and about statutory provision of cost audit rules.
CO5	Tell about the other areas of audit such as HR audit, Operational Audit, Forecast Audit, Social Audit, Tax Audit and Forensic Audit.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code	B. Com	Programme Title	Bachelor of Commerce	
Course Code:	20U5SSCT03	Self Study Course III: General Awareness	Batch	2020-2023
			Semester	V
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

1. It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
2. Develops a commitment to citizenship, through the ability to make informed decisions about public issues.
3. Create an awareness of the achievements and perspectives of people of different nations and cultures, and of different races, genders and ethnicities.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Get familiar with general awareness of the environment around him and its apply it to the society.
CO2	Reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	Have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	-	-	✓	-	-	✓	-	-	✓	✓

SEMESTER – VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMCT18**	**Core 18 - Management Accounting**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**5**

COURSE OBJECTIVES

- To develop an understanding of the conceptual framework of Management Accounting.
- To make the students understand about the ratio analysis, its merits & demerits and preparation of balance sheet.
- To make the students to know clearly about working capital, its sources and determinants, fund flow and cash flow analysis.
- To make the students to know how to find out marginal costing.
- To provide knowledge about budgeting & budgetary control, its importance and preparation of various types of budgets.

COURSE OUTCOME(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of Management Accounting, Cost Accounting & Financial Accounting and preparation of financial Statements.
CO2	Prepare various ratios for the given data and explain their various uses. Also prepare balance sheet from given ratios.
CO3	Demonstrate how to compute working capital, fund flow statement and cash flow statement.
CO4	Calculate margin costing & breakeven point from the given data.
CO5	Prepare various types of budgets.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER - VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMCT19**	**Core 19: Taxation -II**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To know clearly about indirect taxes and their advantages & disadvantages.
- To make the students understand fully about GST.
- To understand clearly about TNGST, GST Acts, registration procedure under GST and filing of returns.
- To know about levy & collection under IGST Act 2017.
- To make the students to know about Customs duty & the corresponding laws and about Customs duty drawback.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about advantages and disadvantages of Indirect taxes.
CO2	Explain how to calculate SGST, CGST, UGST and IGST.
CO3	File returns for GST.
CO4	Explain how to levy & collect tax under GST Act.
CO5	Explain how to levy & collect the customs duty and give exemption to certain goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	✓	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	-

SEMESTER - VI

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U6CMCT20	Core 20 - Financial Management	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To know about what is financial management and the role & functions of the finance manager.
- To know fully about the various types of Cost of Capital.
- To understand clearly about various measures of Financial Leverage and theories of Capital Structure.
- To understand the concepts of Working Capital Management and its computation. Also understand the various techniques of Capital Budgeting.
- To understand dividend theories and dividend policy.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain what is financial management and also the role & functions of financial manager.
CO2	Compute the cost of capital from the given information.
CO3	Apply the theories of capital structure for drawing suitable conclusion regarding the approach to be followed.
CO4	Calculate working capital and also prepare a capital budget from the given information.
CO5	Apply the various dividend theories and determine the dividend to be declared from the given information.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMCT21**	**Core 21: Project Work**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To know how to apply the various concepts the students has studied so far.
- To know how to collect the relevant data.
- To know how to analyse collected information for drawing required inferences.
- To draw valid conclusions.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Apply the relevant concepts suitably to study a particular problem.
CO2	To decide about the relevant method of collecting data, prepare exhaustive questionnaire and collect the information.
CO3	Use statistical methods and calculate the relevant constants.
CO4	Using the statistical constants calculated draw valid inferences.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMET3A**	**Elective 3 : Human Resource Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To know human resource management, its characteristics, scope, importance and functions.
- To understand about job and role analysis, techniques and sources of recruitment and recruitment practices in India.
- To learn about concept, objectives and advantages of placement and induction, employee training and its importance, career planning and development and its advantages and limitations.
- To understand about various techniques of performance of appraisal, job evaluation and its advantages & limitations and types of incentive compensation.
- To know about employee welfare, its types and statutory provisions and to measure job satisfaction and quality of work life. Also understand how to manage the stress.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about human resource management, its characteristics, scope, importance and functions.
CO2	Demonstrate job & role analysis and recruitment suitable persons using various techniques.
CO3	Explain the steps taken for placement & effective induction. Also explain the various types of employee training and their effectiveness. Also explain how to make successful career planning.
CO4	Explain the various methods of Performance Appraisal and job evaluation.
CO5	Explain the statutory provisions for employee welfare, types of employee welfare, measurement of job satisfaction and also about the methods of managing the stress.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMET3B**	**Elective 3: Customer Relationship Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students understand the various types of relationship marketing and about the customer life cycle.
- To make the students understand the various strategies of Customer Relationship Management, difference between CRM and relationship marketing and importance of Customer Relationship Management.
- To make the students understand the contact and enterprise marketing management, their concepts and about CRM in India.
- To enable the students to know the concepts of value chain, benchmarks and vendor selection.
- To make the students to know about data warehouse and data mining, best practices in marketing technologies in Indian scenario.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the relationship marketing, its types and customer life cycle.
CO2	Explain the concept of CRM, strategies and importance of CRM.
CO3	Explain the concepts of contact and enterprise marketing management.
CO4	Explain the concepts of value chain, benchmark and vendor selection.
CO5	Tell about data warehouse and data mining and the best practices in marketing technologies followed in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMET3C**	**Elective 3 : Management Information System**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To make the students understand fully about the meaning of MIS, role, importance and growth of MIS in an organisation and limitations of MIS.
- To enable the students to know the concepts, characteristics, types & categories of MIS and about development life cycle of MIS.
- To make the students to know the importance of Transaction Processing information repeating and executive information system in business and management.
- To make the students to know clearly about database management system and client server technology.
- To enable the students to know about various functional management information system and about business process outsourcing.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about meaning of MIS, role, importance and growth, limitation of MIS in an organization.
CO2	Explain about concepts, characteristics, types and categories of MIS and about development life cycle of MIS.
CO3	Explain about the importance of Transaction Processing information repeating and executive information system in business and management.
CO4	Explain about database management system and client server technology.
CO5	Explain about various functional management information system and about business process outsourcing.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U6CMET4A	Elective 4: Entrepreneurial Development	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

- Clearly understand concepts, definition, nature, characteristics, functions and types of entrepreneurship.
- To know how to prepare a project report for starting a business.
- To know about the various institutions and commercial banks that render services to entrepreneurs.
- To know about how to get finance for starting a business from various institutions including commercial banks and about venture capitalist.
- To know about the various incentives and subsidies given and the role of entrepreneurs in exports and imports.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain what is entrepreneurship.
CO2	Prepare project report for starting a business.
CO3	Explain about the various institutions and commercial banks that encourage entrepreneurship.
CO4	Explain about various institutions which help start-ups by providing finance.
CO5	Explain the incentives and subsidies given by the government and how entrepreneurs help in promoting exports and substituting imports.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
CO2	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
CO3	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
CO4	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
CO5	-	✓	-	-	-	✓	-	-	-	✓	✓	✓

SEMESTER - VI

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U6CMET4B	Elective 4: Consumer Marketing	Batch	2020-2023
			Semester	VI
Hrs/week	5Hrs		Credits	3

COURSE OBJECTIVES

- To know about various consumer needs and various theories of motivation and their application needed for consumer marketing.
- To understand about how to build consumer value & satisfaction, how to retain customers and the benefits of market segmentation.
- To know about various theories of learning, their importance and applications.
- To understand the concept of perception, its types and methods & measurement of positioning.
- To know about various types of advertising & their role in marketing, building brand equity and ethics in advertisement.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the consumer needs and various theories of motivation and their application needed for consumer marketing.
CO2	Explain the build consumer value & satisfaction, how to retain customers and the benefits of market segmentation.
CO3	Explain the various theories of learning, their importance and applications.
CO4	Explain the concept of perception, its types and methods & measurement of positioning.
CO5	Demonstrate the types of advertising and ethics in advertisement

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - VI

Programme Code :	**B.Com**	**Programme Title**	**Bachelor of Commerce**	
Course Code :	**20U6CMET4C**	**Elective 4 : Principles And Practices of Insurance**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To know about meaning, purpose, need of insurance, IRDA Act and recent development in insurance sector.
- To know about the life insurance policies, calculation of premium and surrender value in each type of policy.
- To know about general insurance and its types and the method of making claim of recovery.
- To know fully about various kinds of policies available in accident & motor insurance and about settlement of claims.
- To know about all the aspects of fire and marine insurance.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the meaning, need of insurance, IRDA Act and recent development in the insurance sector.
CO2	Explain the classification of life insurance policies and how to calculate premium and surrender value in policies.
CO3	Explain the types of general insurance and to calculate the claim of recovery.
CO4	Explain the principles and procedures of motor vehicle insurance.
CO5	Explain fire insurance and marine insurance.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

Kovai Kalaimagal College of Arts and Science
Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

B.Com.(Computer Applications)

PROGRAMME EDUCATIONAL OUTCOME (PEO), PROGRAMME OUTCOMES (PO), COURSE OUTCOMES (CO)

B.Com.(Computer Applications)

For the Students Admitted in the Academic year 2020-2021.

Programme Educational Objectives (PEO)

The Graduates of Commerce with computer application would be

PEO1: Occuping a decent position in Banking, Finance and Outsourcing industries.

PEO2: Become successful entrepreneurs.

PEO3: Contribute to the community development and environmental protection.

PROGRAMME OUTCOMES (PO)

After completion of three years of study, our B.Com CA Graduates will be able to :

PO1: Exhibit proficiency in oral and written communication.

PO2: Prove their knowledge of accounting, business, taxation and financial management.

PO3: Exhibit their Technical Skills (such as Word processing, Spread sheet, Visual basic,gambas 3, Accounting Package) in Auditing and Business Process Services by updating their Knowledge with the upcoming new techniques.

PO4: Work on multidisciplinary tasks and will be aware of the new and emerging disciplines.

PO5: Prepare to take up any challenging task.

PO6: Apply technical skills in Analyzing, synthesizing and evaluating information to reach a answer or conclusion for complex business problems.

PO7: Work individually or as a team with responsibility to Function effectively in a Multi disciplinary atmosphere

PO8: Carry out the task assigned by the industries with professional ethics and at the same time with the concern for well being of the society.

PO9: Be aware of one's own weaknesses and strengths, emotions and the way to control Emotions to maintain good interpersonal relationships.

PO10: Undertake entrepreneurship as a desirable and feasible career option.

PO11: Extend the services of the department for the betterment of the society and environmental Protection.

PO12: Learn continuously for updating new knowledge and technologies in the field of Commerce and computer applications.

SEMESTER I

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1TALT01	Language 1 : Tamil - I	Batch	2020-2023
			Semester	I
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	✓	✓	-	✓	-	-	✓	-
CO3	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER I

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1HILT01	Language 1: Hindi I	Batch	2020 -2023
			Semeste	I
Hrs/week	5		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO 3	PO 4	PO 5	PO6	PO 7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	

SEMESTER-I

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U1ENLT01	Language II- Functional English – I	Batch	2020-2023
			Semester	I
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

1. To enable the students to understand the basic grammar in English.
2. To acquaint students with the structure and strategies of conversation
3. To make the students appreciate the significant works and style of prose
4. To develop the skills of speaking and writing without flaws.
5. To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without committing grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	✓

SEMESTER - I

Programme Code:	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1CCCT01	Core 1: Fundamentals of Organisation and Management	Batch	2020-2023
			Semester	I
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES:

5. To impart knowledge on trade and commerce
6. To make the students to understand the forms of business organisation.
7. To impart the knowledge about the functions of management.
8. To acquire knowledge in the principles & process of organising, importance of directing and styles of leadership.
9. To make the students to know the importance of staffing, process of controlling, techniques of co-ordination ,steps in decision making and theories of motivation.

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of business, trade and commerce.
CO2	Explain the various forms of business organisation.
CO3	Describe the levels of management and indicate the importance of planning.
CO4	Tell clearly what are the principles & process of organising, importance of directing and styles of leadership.
CO5	Brief clearly about the importance of staffing, process of controlling, techniques of co-ordination, steps in decision making and theories of motivation.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
CO1	-	●	-	-	-	-	-	-	-	-	-	●
CO2	-	●	-	-	-	-	-	-	-	-	-	●
CO3	-	●	-	-	-	-	-	-	-	-	-	●
CO4	-	●	-	-	-	-	-	-	-	-	-	●
CO5	-	●	-	-	-	-	-	-	-	-	-	●

SEMESTER – I

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U1CCCT02	Core 2: Financial Accounting	Batch	2020-2023
			Semester	I
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

- To make the students to understand the basic accounting concepts and Computerised accounting.
- To enable the students to prepare the final accounts of a sole trader.
- To Provide adequate knowledge on Accounting of Non-Trading Concerns.
- To impart knowledge on Hire Purchase system.
- To gain knowledge about the various methods of calculating depreciation and single entry system.

COURSE OUTCOMES (CO)

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic Accounting concepts and Computerised accounting.
CO2	Prepare Final Accounts of sole trading concern.
CO3	Evaluation of Accounting of Non-Trading Concerns.
CO4	Discuss on Hire Purchase system.
CO5	Calculate the value of depreciation by using different methods of depreciation**.**

MAPPING WITH PROGRAMME OUTCOMES:

CO/ PO	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER – I

Programme Code:	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U1CCCP03	Core 3: Business Application Software I- Practical	Batch	2020-2023
			Semester	I
Hrs/week:	2 Hrs		Credits	2

COURSE OBJECTIVE :

- To make the students know how to prepare the chairman's speech, Auditors report, minutes of a meeting, invitation,invoice,class time table etc., using word processing.
- To make the students understand the method of preparing marklist final accounts,different types of charts,bank customers account etc., using spreadsheet.

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	Create a new document, work with a document and display documents using various views.
CO2	Send letters to multiple recipients using mail merge.
CO3	Do calculations and prepare charts in Excel.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER-I

Programme Code	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1CCAT01	Allied 1: Business Economics	Batch	2020-2023
			Semester	I
Hrs/week:	4 Hrs		Credits	3

COURSE OBJECTIVES:

- To enable the students to understand about various economic concepts in business Economics
- To acquire a knowledge in the Concept of Demand and Supply.
- To make the students to understand the Production function Concepts.
- To Provide knowledge o Marker Structures.
- To familiarise the students with the Price Determination under perfect and Imperfect Competitions.

COURSE OUTCOME:

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	Gathering extensive knowledge on application of Economic Concepts in Business.
CO2	Examine the Supply and Demand analysis and its impact on Economic Issues.
CO3	Describe the Production function and Cost estimates and their application to the Industries .
CO4	Classify the Market Structure and enumerating the Pricing Methods on the basis of various pricing policies.
CO5	Demonstrating the Price Determination under Perfect and Imperfect Competitions.

MAPPING WITH PROGRAMME OUTCOME:

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER - I

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1VBET01	Value Based Education 1: Environmental Studies	Batch	2020 - 2023
			Semester	I
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation.
- To make the students know on various types of environmental pollution, their causes, effect their prevention and the students' role in the same.
- To make the students to know about the various eco system.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Be a responsible citizen in the conservation of natural resources.
CO2	To be able to make others to know about various ecosystems.
CO3	Make the society aware of the importance of conservation of biodiversity and take suitable steps towards that direction.
CO4	Make the others to know about how this earth is being polluted by various types of pollution and realised the responsibility to take various measures to control such pollution.
CO5	Make the public aware of the dangerous of global warming and the immediate steps to be taken to reduce its impact.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER : I

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1NMET01	Non Major Elective 1 : Food Science and Nutrition	Batch	2020-2023
			Semester	I
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVE

10. To understand the importance of Nutrition and the role of food in the maintenance of good health.
11. To know about the functions, deficiency and toxicity of nutrients.
12. To understand Malnutrition and its prevention
13. To know about various adulterants in food and the methods of detecting them.
14. To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about clasification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1SBST01	Skill Based Subject 1 : Mathematics For Competitive Examinations - I	Batch	2020-2023
			Semester	I
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

To enable the Students

f) To understand the fundamental arithmetic skills and problem solving.
g) To learn about the average and Problems on numbers.
h) To solve problem related to Ages and Calander and Clocks.

COURSE OUTCOMES (CO)

- On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races and games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO 7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER-I

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U1SBST02	Skill Based Subject 2 : Communication Skills I	Batch	2020-2023
			Semester	I
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to overcome the same.
- To make the students to know various types of listening and the effect of enhancing the listening skills.
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	to communicate meaningfully and effectively with others
CO2	to explain various types of listening and be a careful listener
CO3	to deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO1	PO12
CO	✓	-	-	-	-	-	-	-	✓	-	-	-
CO	-	-	✓	-	-	-	-	-	-	-	-	✓
CO	-	-	-	-	-	✓	-	-	-	-	✓	-

SEMESTER II

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U2TALT02	Language 1 : Tamil – II	Batch	2020 - 2023
			Semester	2
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் [illegible]
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் [illegible]

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	✓	✓	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER-II

Programme Code	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U2ENLT02	Language II Functional English – II	Batch	2020-2023
			Semester	II
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

1. To enable the students to understand the basic grammar in English.
2. To acquaint students with the structure and strategies of conversation
3. To make the students appreciate the significant works and style of prose
4. To develop the skills of speaking and writing without flaws.
5. To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	✓	-	-	-	-	-	✓	-	-	-	-	✓
CO3	-	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER – II

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U2CCCT04	Core 4: Principles of Marketing	Batch	2020-2023
			Semester	II
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES:

1. To make the students understand about the modern marketing and marketing concepts.
2. To enlighten the students' knowledge on consumer behaviour and rights of consumers.
3. To provide knowledge on advertisement and its uses**.**

COURSE OUTCOMES (CO):

On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	Discuss the key concepts and principles of marketing.
CO2	Explain the main factors involved in marketing functions.
CO3	Recall the components of the marketing mix.
CO4	Detail the importance of consumer behavior as it relates to buying behavior.
CO5	Present their views about advertising media and adverting agencies**.**

MAPPING WITH PROGRAMME OUTCOMES:

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programme Code:	B.COM(CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U2CCCT05	Core 5: Higher Financial Accounting	Batch	2020-2023
			Semester	II
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES:

- To enable the students to learn the accounting procedures of partnership firm.
- To provide thorough knowledge on settlement procedures of partnership firm.
- To make the students understand about human resources accounting and inflation accounting.

COURSE OUTCOMES(CO):

On Successful Completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Elucidate various methods of capital, goodwill and Accounting procedures for admitting a partner.
CO2	Calculate gaining ratio of retiring partner.
CO3	Prepare the settlement of accounts and distribution of capital in dissolution and insolvency.
CO4	Apply their knowledge in calculating the fire insurance claims on stock.
CO5	Narrate the Human resource, inflation accounting and accounting standards .

MAPPING WITH PROGRAMME OUTCOMES:

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER – II

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U2CCCP06	Core 6: Business Application Software II - Practical	Batch	2020-2023
			Semester	II
Hrs/week:	3 Hrs		Credits	2

COURSE OUTCOMES (COs) :

On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	Create e-mail id, attach documents, forward and download attachments .
CO2	Collect details through various search engines.
CO3	Create Effective power point Presentation.
CO4	Apply designs to enhance the quality of the Presentation.
CO5	Create Tables and Queries,Sorts,edit and Filter a database.

MAPPING WITH PROGRAMME OUTCOMES:

CO/ PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER – II

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U2CCAT02	Allied 2: Computer and Information System	Batch	2019-2022
			Semester	II
Hrs/week:	3 Hrs		Credits	2

COURSE OBJECTIVES:

- To provide basic conceptual knowledge about the computer and information system.
- To enable the students to learn the functional aspects of Operating System.
- To make the students understand about data processing, system analysis and design.

COURSE OUTCOMES (COs) :

On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain computer-based information systems and technologies applied in business problems.
CO2	Describe an information system for an organization and steps to develop programs.
CO3	Know fully about hardware and compare different softwares that make networks more efficient and effective.
CO4	Explain the current techniques, skills and tools necessary for computing.
CO5	Give in detail the process of system Analysis and Design.

MAPPING WITH PROGRAMME OUTCOMES:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER II

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U2VBET02	Value Education II (அறவியலும் பண்பாடும்)	Batch	2020 - 2023
			Semester	II
Hrs/week	2		Credits	1

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள், குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டு, சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U2NMET02	Non Major Elective 2 : Floriculture	Batch	2020-2023
			Semester	II
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals & Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U2SBST03	Skill Based Subject 3 : Mathematics for Competitive Examinations II	Batch	2020-2023
			Semester	II
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

- To know about concept of Interest and Profit and loss.
- To develop the ability in solving Permutation, Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER-II

Programme Code :	B.COM (CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U2SBST04	Skill Based Subject 4: Communication Skills II	Batch	2020-2023
			Semester	II
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVES:

1. To make the students to understand the barriers in their communication and the ways to over come the same

2. To make the students to know various types of listening and the effect of enhancing the listening skills

3. To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	✓	-	-	-	-	-	-	-	✓	-	-	-
CO2	-	-	✓	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	-

SEMESTER - III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3CCCT07	Core 7 : Cost Accounting	Batch	2020-2023
			Semester	III
Hrs/week:	5 Hrs		Credits	6

COURSE OBJECTIVES:

- To enlighten the students on various methods of Costing.
- To make the students to calculate the stock level and Pricing of Material issues.
- To enable the students to compute the labour turnover and know about distribution summary.
- To understand the methods of costing adopted by different types of industries.
- To make the students to reconcile cost and Financial statement.

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	Prepare the cost sheet, Tender and Quotation
CO2	Calculate the Stock Levels and Pricing of Material Issues.
CO3	Calculation of labour turnover and Overhead distribution summary.
CO4	Computation of Process Costing and Operating Costing.
CO5	Prepare the Job Costing ,Standard Costing,Contract Costing and Reconciliation of cost and financial accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER – III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3CCCT08	Core 8 : Commercial Law	Batch	2020-2023
			Semester	III
Hrs/week:	5 Hrs		Credits	5

COURSE OBJECTIVES:

- To enable the students to acquire knowledge on legal aspects of business
- To gain knowledge in concepts of Performance, Discharge and breachof contract.
- To impart knowledge about the contract of agency.
- To familiarise the concept of indemnity, guarantee, bailment and pledge.
- To make the students aware about the contract of sale and hire purchase.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain clearly the basic concepts of commercial Law, Contract , Build Operate and Transfer.
CO2	Demonstrate the knowledge about the Capacity, Performance, Discharge and Breach of contract.
CO3	Classify the agents and relationship with Principal and third parties.
CO4	Expalin the concepts of Guarantee, Indemnity, Bailment and Pledge.
CO5	Explain the concept of law of Sale of Goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programme Code:	B.COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3CCCT09	Core 9 : Database Management system	Batch	2020-2023
			Semester	III
Hrs/week:	4 Hrs		Credits	3

COURSE OBJECTIVES:

To make the students to understand

- basic concepts of Database,its system and Evolution.
- database development life cycles, Various Data models,types and their comparison.
- Implemenation of Relational Database.
- Physical database system and managing the database,enrollment and functions of Database administration control.
- Interaction to Structured Query Language using oracle and its uses.

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	To analyse Data Base design methodology.
CO2	Acquire knowledge in fundamentals of Data Base Management System.
CO3	Be able to analyse the difference between traditional file system and DBMS.
CO4	Able to handle with different Data Base languages.
CO5	Draw various data models for Data Base and Write queries mathematically.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO5	PO 6	PO7	PO 8	PO9	P10	P11	P12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER - III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3CCCP10	Core 10 : Oracle Practical	Batch	2020-2023
			Semester	III
Hrs/week:	4 Hrs		Credits	3

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to understand about ,

CO Number	CO Statement
CO1	Brief knowledge about SQL Fundamentals.
CO2	Unary & Binary table operations.
CO3	Handle with different Data Base languages.
CO4	Table View, Log & Triggers.
CO5	Alter, Update, Manipulate the table content

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO6	PO 7	PO 8	PO 9	P10	P11	P12
CO1	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	-	✓	-	-	✓	-	-	-	-	-	-
CO3	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	-	✓	-	-	✓	-	-	-	-	-	-
CO5	-	-	✓	-	-	✓	-	-	-		-	✓

SEMESTER-III

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U3CCCT11	Core 11 : Banking Theory	Batch	2020-2023
			Semester	III
Hrs/week	4 Hrs		Credits	2

COURSE OBJECTIVE

- To know the importace of banking in economic development and functions of commercial banks.
- To know about the relationship between various types of customer and banker. Also know about bill of exchange and its characteristics.
- To know fully about the negotiable instruments.
- To know clearly about RBI, Commercial banks and their functions.
- To understand clearly about demonetization and various forms of cashless transactions.

COURSE OUTCOMES (Cos):

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain meaning, definition , types and importance of banking.
CO2	Explain about relationship between banker and customer, opening and closure of accounts, bill of exchange and its characteristics.
CO3	Explain about the various negotiable instruments and the statutory protection provided for the same.
CO4	Explain the functions of RBI and commercial banks.
CO5	Explain about advantages & disadvantages of demonetization and various cashless transactions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3CCAT03	Allied 3 : Business Mathematics	Batch	2020-2023
			Semester	III
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

To enable the Students

- To understand the basic concepts of set theory, Simple Interest and Compound Interest
- To know the basic concepts of Matrices and Solution of Linear Equations using matrices
- To learn the concept of differentiation of algebraic functions and its uses in business problems
- To Evaluate of definite and Indefinite integrals applicable to business problems.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Study the concepts of set theory and solving problems in sequence and series
CO2	Apply the concepts of simple interest and compound interest in real life problems
CO3	Recollect the basic definition and types of matrices and solving linear equations using matrix method
CO4	Analyse the meaning of derivatives and applying in business problems
CO5	Acquire the knowledge of Integral Calculus.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER - III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3SBST05	Skill Based Subject 5: Mathematics for Competitive Examinations III	Batch	2020-2023
			Semester	III
Hrs/week:	2 Hrs		Credits	1

COURSE OBJECTIVE :

i) To make the students to know the concept of Pipes, Cistern and Probablity.

j) To solve problem related to Problems on Boats and Streams .

k) To make the students to know the concept of Alligation or mixture,Problem of Heights and distance,odd man out series.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Several tricks and formulas for pipes and cisterms are available which reduces the effort to solve the problem.
CO2	Solve the problems on time and distance train, boats and stream.
CO3	Apply the concept of Alligation and height & distance to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-		-	-	-	✓	-	-	-	-	-	-
CO2	-		-	-	-	✓	-	-	-	-	-	-
CO3	-		-	-	-	✓	-	-	-	-	-	-
CO4	-		-	-	-	✓	-	-	-	-	-	-
CO5	-		-	-	-	✓	-	-	-	-	-	-

SEMESTER - III

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U3SBST06	Skill Based Subject 6: Communication Skill III	Batch	2020-2023
			Semester	III
Hrs/week:	2 Hrs		Credits	1

COURSE OBJECTIVE :

- To make the students to understand the barriers in their communication and the ways to over come the same
- To make the students to know various types of listening and the effect of enhancing the listining skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	to communicate meaningfully and effectively with others
CO2	to explain various types of listining and be a careful listener
CO3	to deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code :	B.Com(CA)	Programme Title	Bachelor of Commerce with ComputerApplications	
Course Code :	20U3BTLT01	அடிப்படைத் தமிழ் 1	Batch	2020-2023
			Semester	III

நோக்கம் :

- தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
- சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
- தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
- வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO/ PO	PO 1	PO 2	PO 3	PO4	PO 5	PO6	PO 7	PO 8	PO 9	PO 10	PO11	PO12
CO 1	-	-	-	-	-	-	-	-	-	-	-	-
CO 2	-	-	-	-	-	-	-	-	✓	-	-	-
CO 3	-	-	-	-	-	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER III

Programme Code :	B.Com(CA)	Programme Title	Bachelor of Commerce with ComputerApplications	
Course Code :	20U3ATLT01	சிறப்புத் தமிழ் 1	Batch	2020-2023
			Semester	III

பகுதி – ஐஏ : தமிழ்த்தாள் - 1 – மூன்றாம் பருவம்
(12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு)
அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO11	PO12
CO 1	-	-	-	-	-	✓	-	-	-	-	-	-
CO 2	✓	-	-	-	-	-	-	-	-	-	-	-
CO 3	✓	-	-	-	-	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	-	✓	-	-	-
CO 5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER - III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1A	Self study Course – I மனித வாழ்க்கையும் காந்தியடிகளும் / Manitha Vaalkaiyum Gandhiadigalum	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

1. மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
2. இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
3. மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
4. நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
5. காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்றுஅறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குாந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO7	PO 8	PO9	PO1 0	PO1 1	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1B	Self study Course – III இந்திய விடுதலைப் போரில் வ.உ.சி ∴ V.O.Chidambarathin Vaalkai Varalaaru	Batch	2020 - 2023
Hrs/ Week	-		Credits	1

நோக்கம்

- வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
- சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
- வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
- வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
- விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.

CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO7	PO 8	PO9	PO1 0	PO1 1	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1C	Self study Course – III நேதாஜியின் வீர வரலாறு ∴Nethaji Subash Chandrabosin Vaalkai Varalaaru	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இராணுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி

   மாணவர்களுக்கு உணர்த்துதல்.
5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு

   உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.

CO3	நேதாஜியின் நாட்டுப் பற்று, சுதந்திரப் போராட்டத்தில் நேதாஜியின் பங்களிப்பு பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு நாட்டுப் பற்றினை ஏற்படுத்தி இந்திய தேசிய இராணுவம் உருவாக்குதல், காந்தியடிகளினுடனான நேதாஜியின் நட்பு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடுகள் மூலம் இளைஞர்களிடையே ஏற்படுத்திய தாக்கம் பற்றி மாணவர்கள் அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால கனவு, போர் முயற்சி, திட்டம், கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றிய செய்திகளை மாணவர்கள் அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	**PO 1**	**PO 2**	**PO3**	**PO 4**	**PO 5**	**PO6**	**PO 7**	**PO 8**	**PO 9**	**PO1 0**	**PO1 1**	**PO12**
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1D	Self study Course – III அக்னிச் சிறகுகள /A.P.J Abdul Kalamin Vaalkai Varalaaru	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களிடையே சவால்களை எதிர்கொள்ளும் திறன்களையும், நாட்டுப்பற்றினையும்
   வளர்த்தல்.
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை
   வழி மாணவர்கள் அறியச் செய்தல்

- ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	சவால்களை எதிர் கொண்டு வெற்றிபெறும் வழிமுறைகளையும், நாட்டுப்பற்றின் மேன்மைகளையும், தன்னலமற்ற சேவையே நாட்டை உயர்த்தும் என்பதையும் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவளாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1E	Self study Course – I ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்.: Periyarin Vaalkai Varalaaru	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.

நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.

அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.

பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.

சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com (CA)	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U3SSCT1F	Self study Course – I காமராசர் ஓர் வழிகாட்டி. Kamarajarin Vaalkai Varalaaru	Batch	2020 - 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.

காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.

உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.

காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.

திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

CO3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO1 1	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER: IV

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCCT12	Core 12 : Corporate Accounting	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hrs		Credits	5

COURSE OBJECTIVE :

15. To enable the students to be aware of shares issues and underwriting of shares.
16. To make the students to know how to prepare journal entries in issue of preference shares and debentures.
17. To prepare the final accounts of a company.
18. To make the students to know various methods of valuation of goodwill and shares.
19. To make the students know about liquidation of companies and Accounting standard for reporting.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of shares and the procedure to prepare journal and ledger.
CO2	Prepare journal entries for Issue of preference shares and debentures.
CO3	Prepare final accounts of a company.
CO4	Compute the value of goodwill and shares using different methods.
CO5	Prepare liquidator's final statement of accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER : IV

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCCT13	Core 13 : Company Law and Secretarial Practice	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To impart knowledge about the provisions of the Companies Act 2013, 2015 & 2018.
- To provide knowledge about the role of directors and their powers.
- To make the students understand the powers, duties & liabilities of a company Secretary.
- To make the students know about conducting various meeting of the company and role of Company Secretary.
- To acquire knowledge about various modes of winding up of a Company.

COURSE OUTCOME(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the formation of companies, Memorandum of Association and Articles of Association.
CO2	List out the powers, duties and liabilities of directors.
CO3	Explain the role of company secretary.
CO4	Classify the company meetings and write the minutes of a meeting.
CO5	Explain the various modes of winding up of a company.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO11	PO12
CO 1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO 2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO 3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO 4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO 5		✓	-			✓	-	-	-	-	-	✓

SEMESTER- IV

Programme Code:	B.COM(CA)	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCCT14	Core 14 : Object Oriented Programming with C++	Batch	2019-2022
			Semester	IV
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

To make the students to understand

- Evaluation of Programming language,structure of 'C' Programming basic concepts of OOPS, differnece between C and C++ Programming.
- Identifiers, Data types ,operators , Control structures and branching in C++ Programming.
- Classes ,objects and functions in C++.
- Constructor and Destructor and their functions also about inheritance and its types.
- Principles for operator and function overloading also about files and their corresponding operation.

COURSE OUTCOME

On successful completion of the course, students should be able to achieve

CO Number	CO Statement
CO1	Explain basic knowledge on Object Oriented concepts.
CO2	Discuss on small/medium scale C++ programs with simple graphical user interface. Understand the file handling and error handling mechanisms in C++
CO3	Ability to develop applications using Object Oriented Programming Concepts using C++
CO4	Elaborate the concept of data abstraction, encapsulation and overload functions.
CO5	Understand the role of inheritance, polymorphism, dynamic binding and generic structures in building reusable code.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
CO 1	-	✓	✓	-	✓	-	✓	-	-	-	-	✓
CO 2	-	✓	✓	-	✓	-	✓	-	-	-	✓	✓
CO 3	-	✓	✓	-	✓	-	✓	-	✓	-	-	✓
CO 4	-	✓	✓	-	✓	-	✓	-	-	-	-	✓
CO 5	-	✓	✓	-	✓	✓	✓	-	-	-	-	✓

SEMESTER : IV

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCCP15	Core 15 : Object Oriented Programming with C++-Practical	Batch	2020-2023
			Semester	IV
Hrs/week	3 Hrs		Credits	2

COURSE OUTCOME

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Apply object-oriented programming features to program design and implementation
CO2	Implement the object oriented concepts in developing application using C++.
CO3	Develop applications using Inheritance and polymorphism in C++.
CO4	Write, compile and execute programs using appropriatepredefined functions in C++.
CO5	Understand object-oriented concepts and how they are supported by C++

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	✓	-	-	✓	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	□	-	-	-
CO3	-	-	✓	-	-	✓	-	-	✓	-	✓	✓
CO4	-	-	✓	-	-	✓	-	-	-	-	-	□
CO5	-	-	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER : IV

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCCT16	Core 16: Executive Business Communication	Batch	2020-2023
			Semester	IV
Hrs/week	4 Hrs		Credits	2

COURSE OBJECTIVE

- To familiarise the esentials of effective business letters.
- To make the sudents understand how to make trade enquiries, complaints and writing circulars.
- To make the students to know how to make correspondance with banks, insurance companies and various agencies.
- To explain how the reports are prepared by individuals, Committees, Secretary, Executive Heads and preparation of press reports.
- To make the students to know about the part played by the technology in making

COURSE OUTCOMES (Cos):

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Write various business letters.
CO2	Make trade enquires, write collection & sales letter and make complaints .
CO3	To explain how to make Correspondence, with banks, insurance companies and various agencies.
CO4	To prepare varioius reports such as reports by indiviuala, Committees Secretary, Executive Heads, officers including the press reports.
CO5	To make use of various electronic devices for effective communication.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO 2	PO3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓
CO4	✓	-	-	-	-	-	-	-	-	-	-	✓
CO5	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER : IV

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U4CCAT04	Allied 4: Business Statistics	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

To enable the Students

- To know the meaning and definition of Statistics and about various Statistical methods.
- To have a clear idea on Correlation between variables and Regression analysis.
- To know various components of Time series, Method of determining the same, concept of Index numbers , various types and their calculations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the meaning and definition of Statistics and various statistical methods
CO2	Estimate various Statistical constants.
CO3	Define Correlation and Regression between two variables,their analysis and uses.
CO4	Explain the Time Series analysis and its uses
CO5	Explain types of Index Numbers, their calculations,and their uses.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	✓
CO2	-	-	-	-	-	✓	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	-	✓
CO4	-	-	-	-	-	✓	-	-	-	-	-	✓
CO5	-	-	-	-	-	✓	-	-	-	-	-	✓

SEMESTER : IV

Programme Code :	B.Com CA	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code :	20U4SBST07	Skill Based Subject 7 : Mathematics For Competitive Examinations -IV	Batch	2020-2023
			Semester	IV
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVE :

- To make the students to know the concept of Problems of Interest andVenn Diagrams
- To solve problem related to Problems on Sequence and series.
- To develop the skills in solving problems in Mental Ability and Logical reasoning.

COURSE OUTCOME :

On successful completion of the course, students should be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explicate the concept of finance and discover the inference using Venn-diagram.
CO2	Solve the problems on logarithms,area,Volume, Sequence and series.
CO3	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER : IV

Programme Code :	B.Com CA	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code :	20U4SBST08	Skill Based Subject 8: Communication Skills- IV	Batch	2020-2023
			Semester	IV
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVE

- To know clearly the use of various symbols for pronunciating the words with proper sounds.
- To make aware of various techniques of reading and writing different reports.

COURSE OUTCOME :

CO Number	CO Statement
CO1	To be able to prounuce the words clearly with proper pronunciation.
CO2	Read the given materials properly and to write meaningful reports

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO1 0	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER IV

Programme Code :	B.Com(CA)	Programme Title	Bachelor of Commerce with ComputerApplications	
Course Code :	20U4ATLT02	சிறப்புத் தமிழ;	Batch	2020 - 2023
			Semester	IV

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.

திருக்குறளின் சிறப்பை அறியச் செய்தல்.

சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.

பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.

மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபுபிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO11	PO 12
CO1	-	-	-	-	✓	-	-	-	✓	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	✓	-	✓	✓	-	-

SEMESTER IV

Programme Code :	B.Com(CA)	Programme Title	Bachelor of Commerce with ComputerApplications	
Course Code :	20U4BTLT02	அடிப்படைத் தமிழ் 2	Batch	2020-2023
			Semester	IV

நோக்கம்:

ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.

தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.

தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.

தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO No.	CO Statement
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்ககை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO7	PO 8	PO 9	PO 10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER- IV

Programme Code :	B.Com CA	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code :	20U4SSCT2A	Self Study Course 2 : Women Rights	Batch	2020-2023
			Semester	IV
			Credits	1

COURSE OBJECTIVES:

- To make the women students understand the legal systems, constitutional frame work and human rights in India.
- To understand and appreciate the women's claims to land and their right to property.
- To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
- To give a knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO 2	PO 3	PO 4	PO 5	PO6	PO 7	PO8	PO 9	PO1 0	PO1 1	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	**B.Com (CA)**	**Programme Title**	**Bachelor of Commerce with Computer Applications**	
Course Code:	**20U4SSCT2B**	**Self Study Course 2: A n Introduction to Constitution of India**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	for understand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	**PO1**	**PO2**	**PO3**	**PO 4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER- IV

Programme Code:	**B.Com(CA)**	**Programme Title**	**Bachelor of Commerce with Computer Applications**	
Course Code:	**20U4SSCT2C**	**Self Study Course 2: Human Rights**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES

6. To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
7. To impart education on national and international regime on Human Rights.
8. To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	**CO Statement**
CO1	develop skills on human rights advocacy.
CO2	appreciate the relationship between rights and duties.
CO3	foster respect for tolerance and compassion for all living creature.
CO4	create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER- IV

Programme Code:	B.Com	Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	20U4SSCT2D	Self Study Course 2: Consumer Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	2		Credits	1

COURSE OBJECTIVES

- To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCCT17	Core 17 : Financial Markets	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE:

- To enable the students to understand about the various Financial Markets.
- To make the students to know about the capital market, stock exchange and their functions.
- To know about various credit rating agencies of India.
- To know about various functionaries of stock exchange.
- To provide knowledge about financial services, SEBI and various types and functions of credit rating.

COURSE OUTCOMES:

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	To make the students explain what did he understand about various financial capital markets.
CO2	Explain about capital market, security market and their functions.
CO3	To make students explain what does he know about Credit Rating Agencies.
CO4	Explain the functions of Stock exchange.
CO5	Demonstrate his knowledge on Financial Services, SEBI and Credit Rating

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCCT18	Core 18: Taxation I	Batch	2020-2023
			Semester	V
Hrs/week	6 Hrs		Credits	5

COURSE OBJECTIVE

- To make the students understand recent amendments in Income Tax.
- To make them know how to compute taxable income.
- To Calculate the income from House Property , Business and Profession.
- To Learn about the concept of Capital Gain.
- To provide adequate knowledge on tax filing

COURSE OUTCOME

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Income tax Act, Assessment year, Calculation of Total Income and Exempted Income
CO2	Explain the Computation of taxable salary.
CO3	Calculate the Taxable Income from House Property, Profits & Gains of Business or Profession.
CO4	Explain how to calculate capital gains and its deduction from Gross Total Income
CO5	Demonstrate how to file income tax returns

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCCT19	Core 19: Visual Basic	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

:To make the students to know clearly about

- front end tool for Customer Interaction in Business.
- Visual Basic Tool Box.
- Data and Variables and control flow statements.
- Menu Editor and Common Dialog control
- Database connecting tools and updating a database file

COURSE OUTCOME

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understanding Graphical User Interface and Event-driven Programming, Properties
CO2	Concept of Windows Forms, common controls, design-view, code view, class diagram view.
CO3	Understand the concept of Control Structures, elementary data structures, and collection classes
CO4	To Know the procedures, sub-procedures, and functions to create manageable code.
CO5	Understanding Database connectivity.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCCP20	Core 20 – Visual Basic - Practical	Batch	2020-2023
			Semester	V
Hrs/week	4 Hrs		Credits	3

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Design, create, build, and debug Visual Basic applications.
CO2	Apply arithmetic operations for displaying numeric output.
CO3	Apply decision & loop structures for determining different operations.
CO4	Create one and two dimensional arrays for sorting, calculating, and displaying of data.
CO5	Write and apply procedures, sub-procedures, and functions to create manageable code.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-		-	-	-	-	-	✓
CO4	-	✓	-	-	-		-	-	-	-	-	✓
CO5	-	✓	-	-	-		-	-	-	-	-	✓

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET1A	Elective 1: Principles of Auditing	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE:

- To understand the fundamental concepts of auditing, its advantages and recent trends in auditing.
- To know clearly about internal control, internal check and internal audit.
- To learn about vouching & its importance and various types of vouchers.
- To make the students to know about how verification and valuation of assets and liabilities is made and the role of auditors in it.
- To know about how the company auditor is appointed and his duties and responsibilities.

COURSE OUTCOMES:

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To explain about what is audit, its types and recent trends
CO2	The students must be able to conduct internal audit.
CO3	Prepare different types of vouchers.
CO4	Explain how verification and valuation of assets and liabilities are made and the role of auditor in it.
CO5	Explain how the audit of various institutions is made by a company auditor and the preparation of audit report.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET1B	Elective 1: Principles and Practices of Insurance	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE:

- To know about meaning, purpose, need of insurance, IRDA Act and recent development in insurance sector.
- To Know about the life insurance policies, calculation of premium and surrender value in each type of policy.
- To know about general insurance and its types and the method of making claim of recovery .
- To know fully about various kinds of policies available in accident & motor insurance and about settlement of claims.
- To know about all the aspects of fire and marine insurance.

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Discuss the recent development in the Insurance Sector.
CO2	Explain the classification of life Insurance Policies.
CO3	Describe the types of General Insurance.
CO4	Enumerate the Principles and Procedures for Motor Vehicle Insurance.
CO5	Define Fire Insurance and Marine Insurance.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET1C	Elective 1 : Management Information System	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To make the students understand fully about the meaning of MIS, role, importance and growth of MIS in an organsiation and limitations opf MIS.
- To enable the students to know the concepts, characteristics, types & categories of MIS and about development life cycle of MIS.
- To make the students to know the importance of Transaction Processing information repeating and executive information system in business and management.
- To make the students to know clearly about database management system and client server technology.
- To enable the students to know about various functional management information system and about business process outsourcing.

COURSE OUTCOMES (Cos):

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about meaning of MIS,role, importance and growth, limitation of MIS in an organization.
CO2	Explain about concepts, characteristics, types and categories of MIS and about development life cycle of MIS.
CO3	Explain about the importance of Transaction Processing information repeating and executive information system in business and management.
CO4	Explain about database management system and client server technology.
CO5	Explain about various functional management information system and about business process outsourcing.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO2	PO3	PO 4	PO5	PO6	PO7	PO 8	PO9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET2A	Elective 2: E-Commerce	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

To make the students to know clearly about

- Framework , Classification and applications of E-Commerce.
- Benefits, Legal security and Privacy issues of Electronic Data Interchange.
- Network security and firewalls, data and message security and web and security.
- Consumer oriented electronic Commerce and Mercantile Models.
- Types of Electronic payment systems, risks involved, E-advertising ,E-Marketing and Carrier Opportunities in electronic Commerce..

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand about the Concepts of E-Commerce.
CO2	Explain about Benefits, and Privacy isssues of Electronic Data Interchange
CO3	Describes about the Network Security.
CO4	Discuss about the Consumer Oriented applications
CO5	Outline about Electronic payment system.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Com CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCET2B	Elective 2 : Business Research Methods	Batch	2020-2023
			Semester	VI
Hrs/week	5Hrs		Credits	3

COURSE OBJECTIVES

- To know what is business research and its types. Understand how to formulate research problems.
- To know about various sampling methods and methods of data collection.
- To know about various measurement and scaling techniques, statistical tools used in research and steps in drafting reports.
- To know the calculation of various statistical constants.
- To know how to use large and small tests of significance.

COURSE OBJECTIVE

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the business research, its types and how to formulate research problems.
CO2	Explain the methods of sampling and data collection.
CO3	Explain the measurement & scaling techniques and statistical tools used in research
CO4	Calculate various constants such as averages, measures of dispersion, correlation and construction of regression lines.
CO5	Apply various test of significance for drawing meaningful inferences.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET2C	Elective 2: Financial Management	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To know about what is financial management and the role & functions of the finance manager.
- To know fully about the various types of Cost of Capital.
- To understand clearly about various measures of Financial Leverage and theories of Capital Structure.
- To understand the concepts of Working Capital Management and its computation. Also understand the various techniques of Capital Budgeting.
- To understand dividend theories and dividend policy.

COURSE OUTCOMES (Cos):

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain what is financial management and also the role & functions of financial manager.
CO2	Compute the cost of capital from the given information.
CO3	Apply the theories of capital structure for drawing suitable conclusion regarding the approach to be followed.
CO4	Calculate working capital and also prepare a capital budget from the given information
CO5	Apply the various dividend theories and determine the dividend to be declared from the given information.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO 2	PO3	PO 4	PO5	PO6	PO7	PO 8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code:	20U5NCCT03	Aptitude & Soft Skills- I	Batch	2020-2023
			Semester	V
Hrs/ Week	3 Hrs		Credits	-

COURSE OBJECTIVES

- To acquire inter personal skills, problem solving skills and be an effective goal oriented teamplayer.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Apply the inter personal and problem solving skills in the placement drive.
CO2	To apply the behavioral skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
CO3	grasp the approaches and strategies to solve problems with speed and accuracy.
CO4	• Ability to reason critically by analyzing, elevating and extending arguments.
CO5	• Explain the concepts deal with graphs, tables, number sequence and texts.

SEMESTER-V

Programme Code:	**B. COM CA**	**Programme Title**	**Bachelor of Commerce With Computer Applications**	
Course Code:	**20U5SSCT03**	**Self Study Course III:** General Awareness	**Batch**	2020-2023
			Semester	V
Hrs/ Week	-		**Credits**	1

COURSE OBJECTIVES:

- It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
- Develops a commitment to citizenship, through the ability to make informed decisions about public issues.

Create an awareness of the achievements and perspectives of people of different nations and

- cultures, and of different races, genders and ethnicities.
-

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to:

CO Number	CO Statement
CO1	Get familiar with general awareness of the environment around him and its apply it to the society.
CO2	Reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	Have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	-	-	✓	-	-	✓	-	-	✓	✓

SEMESTER – VI

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code	20U6CCCT21	Core 21 : Internet And Web Design	Batch	2020-2023
			Semester	VI
Hrs/week:	5 hrs		Credits	3

COURSE OBJECTIVES:

To make the students to know clearly about ,

- Evolution of Internet , applications of Internet ,transmissiom Protocols and their uses.
- HTML and Creating web pages using HTML tags.
- List and uses of Special tags.
- Preparing tables and linking documents.
- Forms used by the websites, dynamis HTML,features,advantages and disadvanta ges of VB script.

COURSE OUTCOMES (Cos):

On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	understand concepts of static web pages through HTML and JavaScript.
CO2	Explain about Creating web pages using HTML tags.
CO3	Explain about List and uses of Special tags.
CO4	Elaborate about Preparing tables and linking documents..
CO5	Explain about features, advantages and disadvantages of VB script

MAPPING WITH PROGRAMME OUTCOMES

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCCT22	Core 22: Taxation -II	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To know clearly about indirect taxes and their advantages & disadvantages.
- To make the students understand fully about GST.
- To understand clearly about TNGST,GST Acts, registration procedure under GST and filing of returns.
- To know about levy & collection under IGST Act 2017.
- To make the students to know about Customs duty & the corresponding laws and about Customs duty drawback..

COURSE OUTCOMES (Cos):

On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain about advantages and disadvantages of Indirect taxes.
CO2	Explain how to calculate SGST, CGST,UGST and IGST.
CO3	File returns for GST.
CO4	Explain how to levy & collect tax under GST Act.
CO5	Explain how to levy & collect the customs duty and give exemption to certain goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCCP23	Core 23: HTML-Practical	Batch	2020-2023
			Semester	VI
Hrs/week	4 Hrs		Credits	2

COURSE OUTCOMES (Cos):
On Successful Completion of the course, students will be able to

CO Number	CO Statement
CO1	Understand relationship of HTML, CSS & JavaScript
CO2	Use critical thinking skills to design and create websites.
CO3	Usage of frames and forms.
CO4	To know the use and creation of CSS.
CO5	To implement different constructs and programming techniques provided by Java Script.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCCT24	Core 24 - Management Accounting	Batch	2020-2023
			Semester	VI
Hrs/week	6 Hrs		Credits	5

COURSE OBJECTIVE

- To develop an understanding of the conceptual framework of Management Accounting.
- To make the students understand about the ratio analysis, its merits & demerits and preparation of balance sheet.
- To make the students to know clearly about working capital, its sources and determinants, fund flow and cash flow analysis.
- To make the students to know how to find out marginal costing.
- To provide knowledge about budgeting & budgetary control, its importance and preparation of various types of budgets.

COURSE OUTCOME

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the cocept of Management Accounting,Cost Accounting & Financial Accounting and preparation of financial Statements..
CO2	Prepare various ratios for the given data and explain their various uses.Also prepare balancesheet from given ratios.
CO3	Demonstrate how to compute working capital, fund flow statement and cash flow statement.
CO4	Calculate margin costing & break even point from the given data.
CO5	Prepare various types of budgets.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO 7	PO8	PO9	PO1 0	PO11	PO12
-	-	✓	-	-	-	-	-	-	-	-	-	✓
-	-	✓	-	-	-	-	-	-	-	-	-	✓
-	-	✓	-	-	-	-	-	-	-	-	-	✓
-	-	✓	-	-	-	-	-	-	-	-	-	✓
-	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U5CCET3A	Elective 3: Cyber Law	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE:

To make the students to know clearly about ,

- Cyber law and concepts of cyber space.Cyber law in E-Commerce.
- Various security aspects, intellectual property aspects, Indian copy rights and Indian Patents Act.
- Evidence aspects and their applicability ,criminal aspect and its prevention.
- Legal framework for Electronic Data Interchange.
- Information Technology Law.

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following

outcomes

CO Number	CO Statement
CO1	Understand about the concepts of cyber law.
CO2	Outline about the Security Aspects.
CO3	Describes about the Computer Crime.
CO4	Discuss about EDI.
CO5	Acquire a knowledge on Electronic Governance.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO 3	PO4	PO5	PO 6	PO7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCET3B	Elective 3 : Entrepreneurial Development	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- Clearly understand concepts, definition, nature, characteristics, functions and types of entrepreneurship.
- To know how to prepare a project report for starting a business.
- To know about the various institutions and commercial banks that render services to entrepreneurs.
- To know about how to get finance for starting a business from various institutions including commercial banks and about venture capitalist.
- To know about the various incentives and subsidies given and the role of entrepreneurs in exports and imports.

COURSE OUTCOMES (Cos):

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain what is entrepreneurship..
CO2	Prepare project report for starting a business.
CO3	Explain about the various institutions and commercial banks that encourage entrepreneurship.
CO4	Explain about various institutions which help startups by providing finance
CO5	Explain the incentives and subsidies given by the government and how entrepreneurs help in promoting exports and substituting imports

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code:	B. COM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCET3C	Elective 3 : Consumer Marketing	Batch	2020-2023
			Semester	VI
Hrs/week	5Hrs		Credits	3

COURSE OBJECTIVE

- To know about various consumer needs and various theories of motivation and their application needed for consumer marketing.
- To understand about how to build consumer value & satisfaction, how to retain customers and the benefits of market segmentation.
- To know about various theories of learning, their importance and applications.
- To understand the concept of perception, its types and methods & measurement of positioning.
- To know about various types of advertising & their role in marketing, building brand equity and ethics in advertisement.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the consumer needs and various theories of motivation and their application needed for consumer marketing.
CO2	Explain the build consumer value & satisfaction, how to retain customers and the benefits of market segmentation.
CO3	Explain the various theories of learning, their importance and applications.
CO4	Explain the concept of perception, its types and methods & measurement of positioning.
CO5	Demonstrate the types of advertising and ethics in advertisement

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code:	BCOM CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCET4A	Elective 4: Human Resource Management	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To know human resource management, its characteristics, scope, importance and functions.
- To understand about job and role analysis, techniques and sources of recruitment and recruitment practices in India.
- To learn about concept, objectives and advantages of placement and induction, employee training and its importance, career planning and development and its advantages and limitations.
- To understand about various techniques of performance of appraisal, job evaluation and its advantages & limitations and types of incentive compensation.
- To know about employee welfare , its types and statutory provisions and to measure job satisfaction and quality of work life. Also understand how to manage the stress.

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain about human resource management, its characteristics, scope, importance and functions.
CO2	Demonstrate job & role analysis and recruitment suitable persons using various techniques
CO3	Explain the steps taken for placement & effective induction. Also explain the various types of employee training and their effectiveness.Also explain how to make successful career planning.
CO4	Explain the various methods of Performance Appraisal and job evaluation

CO5	Explain the statutory provisons for employee welfare, types of employee welfare, measurement of job satisfaction and also about the methods of managing the stress

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	B.Com CA	Programme Title	Bachelor of Commerce With Computer Applications	
Course Code :	20U6CCET4B	Elective 4 : Customer Relationship Management	Batch	2020-2023
			Semester	VI
Hrs/week	5Hrs		Credits	3

COURSE OBJECTIVE

- To make the students understand the the various types of relationship marketing and about the customer life cycle.
- To make the students understand the various strategies of Customer Relationship Management, difference between CRM and relationship marketing and importance of Customer Relationship Management.
- To make the students understand the contact and enterprise marketing management, their concepts and about CRM in India.
- To enable the students to know the concepts of value chain, benchmarks and vendor selection.
- To make the students to know about data warehouse and data mining, best practices in marketing technologies in Indian scenario

COURSE OUTCOMES :

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the relationship marketing,its types and customer life cycle
CO2	Explain the concept of CRM, strategies and importance of CRM
CO3	Explain the concepts of contact and enterprise marketing management
CO4	Explain the concepts of value chain, benchmark and vendor selection.
CO5	Tell about data warehouse and data mining and the best practices in marketing technologies followed in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

Kovai Kalaimagal College of Arts and Science

Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

B.Com.(Professional Accounting)

PROGRAMME EDUCATIONAL OUTCOME (PEO), PROGRAMME OUTCOMES (PO), COURSE OUTCOMES (CO)

B.Com.(Professional Accounting)

For the Students Admitted in the Academic year 2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO) AND PROGRAMME OUT COMES

PROGRAMME EDUCATIONAL OBJECTIVES

Graduates of commerce with professional accounting would be

PEO1: Occupying covenant positions in Banking, Finance, Insurance and Business process service industries.
PEO2: Occupying their tasks with professionalism and with Professional ethics.
PEO3: Occupying responsible citizens with social consciousness and contributing to the welfare of the society.

PROGRAMME OUTCOMES (PO)

After Completion of three years of study our B.Com (PA) graduates will be able to

PO1: Exhibit proficiency in oral and written communication.
PO2: Prove their knowledge of accounting, business, taxation and financial management
PO3: Exhibit their Technical Skills (such as Word processing, Spreadsheet, Gambas 3, Accounting Package) in Auditing and Business Process Services by updating their knowledge with the upcoming new techniques.
PO4: Work on multidisciplinary tasks and will be aware of the new and emerging disciplines.
PO5: Prepare to take up any challenging task.
PO6: Apply technical skills in Analyzing, synthesizing and evaluating information to reach an answer or conclusion for complex business problems.
PO7: Work individually or as a team with responsibility to Function effectively in a multidisciplinary atmosphere.
PO8: Carry out the task assigned by the industries with professional ethics and at the same time with the concern for well being of the society.
PO9: Be aware of one's own weaknesses and strengths, emotions and the way to Control emotions to maintain good interpersonal relationships.
PO10: Undertake entrepreneurship as a desirable and feasible career option.
PO11: Extend the services of the department for the betterment of the society and environmental protection.
PO12: Learn continuously for updating new knowledge and technologies in the field of commerce and computer applications.

SEMESTER I

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U1TALT01	Language 1 : Tamil - I	Batch	2020 - 2023
			Semester	I
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- புதுக்கவிதைகள், சிறுகதைகள் ஆகியவற்றைப் வாசிக்க வைத்தல், எழுத வைத்தல்
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும், பேசுவதற்கும், கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றன என்பதை அறிந்துகொள்ளல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிதல்.
CO2	வாழ்வியல் நெறிகளை உணர்ந்து மனிதநேயத்துடனும் உயர்ந்த குறிக்கோளுடனும் சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	இலக்கியங்களின் வாயிலாக பல்வேறு வகையான வாழ்க்கைத்தரம் மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமூகம் மற்றும் பெண்ணியம் சார்ந்த கவிதைகளும், கருத்து பரிமாற்றத்திறனுக்கு அடிப்படையாக உள்ள இலக்கணமும், இன்றைய சமுதாய நிகழ்வுகளைப் பிரதிபலிக்கும் சிறுகதையும், தன்முயற்சிப்படிப்பின் வாயிலாக, நமது ஊரின் சிறப்புகளையும் மற்றும் வரலாற்றுச் செய்திகளையும் மாணவர்கள் அறிந்து கொள்ள செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	–	✓
CO2	-	-	-	-	✓	✓	–	✓	–	–	✓	-
CO3	-	–	-	-	✓	✓	-	–	✓	–	–	-
CO4	-	-	-	-	✓	-	-	–	–	✓	–	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER-I

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U1ENLT01	Language 2 - Functional English – I	Batch	2020 - 2023
			Semester	I
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

To enable the students

- To understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	✓	✓
CO2	✓	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	✓	-	-	-	-	-	-	-	✓	✓

SEMESTER : I

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U1CPCT01	Core 1: Fundamentals of Organisation and Management	Batch	2020-2023
			Semester	I
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To impart knowledge on business, trade and commerce.
- To make the students to understand the forms of business organisation.
- To impart knowledge about the functions of management.
- To acquire knowledge in the principles & process of organising, importance of directing and styles of leadership.
- To make the students to know the importance of staffing, process of controlling, techniques of co-ordination, steps in decision making and theories of motivation.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of business, trade and commerce.
CO2	Explain the various forms of business organisation.
CO3	Describe the levels of management and indicate the importance of planning.
CO4	Tell clearly what are the principles & process of organising, importance of directing and styles of leadership.
CO5	Brief clearly about the importance of staffing, process of controlling, techniques of co-ordination, steps in decision making and theories of motivation.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	✓	-	✓
CO2	-	✓	-	-	-	-	-	-	-	✓	-	-
CO3	-	✓	-	-	-	-	✓	-	✓	-	-	-
CO4	-	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO5	-	✓	-	-	✓	✓	✓	-	✓	-	-	✓

SEMESTER : I

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U1CPCT02**	**Core 2 : Financial Accounting - I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVE

- To make the students understand the basic accounting concepts and conventions.
- To enable the students to differentiate cash and credit transactions.
- To enable the students to prepare the final accounts of a sole trader.
- To impart knowledge in the concepts of consignment and joint venture.
- To enable the students to prepare the final accounts.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic Accounting concepts and the procedure to prepare journal and ledger.
CO2	Classify the cash transactions and credit transactions of a Business.
CO3	Prepare Final Accounts of sole proprietor concern.
CO4	Explain the concepts of consignment and Joint venture.
CO5	Prepare Bank Reconciliation Statement and accounting for Non-profit organisation.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER : I

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U1CPAT01**	**Allied 1:Business Economics**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the students to understand about various economic concepts in business economics.
- To acquire a knowledge in the Concept of Demand and Supply.
- To make the students to understand the Production function Concepts.
- To Provide knowledge of Marker Structures.
- To familiarise the students with the Price Determination under perfect and Imperfect Competitions.

COURSE OUTCOMES(CO)

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Gathering extensive knowledge on application of Economic Concepts in Business.
CO2	Examine the Supply and Demand analysis and its impact on Economic Issues.
CO3	Describe the Production function and Cost estimates and their application to the Industries .
CO4	Classify the Market Structure and enumerating the Pricing Methods on the basis of various pricing policies.
CO5	Demonstrating the Price Determination under Perfect and Imperfect Competitions.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	-	-	-	-	-	-	-	-
CO2	-	✓	-	✓	-	-	-	-	-	-	-	✓
CO3	-	✓	-	✓	-	-	-	-	-	-	-	✓
CO4	-	✓	-	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	-	✓	-	✓	-	-	-	-	-	✓

SEMESTER - I

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U1VBET01	Value Based Education 1: Environmental Studies	Batch	2020 - 2023
			Semester	I
Hrs/ Week	2 Hrs		Credits	1

COURSE OBJECTIVES:

- To make the students understand the various types of natural resources and their responsibility in the conservation of the same.
- To impart on various eco systems, biodiversity at various levels and their conservation
- To make the students know on various types of environmental pollution, their causes , effects, their prevention and the students role in the same.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Understand the interdisciplinary nature of environmental issues.
CO2	Understand the core concepts and methods from ecological and physical sciences and their application in environmental problem solving.
CO3	Develop a sense of community responsibility by becoming aware of scientific issues in the larger social context.
CO4	Develop the sense on ethical, cross cultural and historical context of environmental issues and the links between human and natural systems.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER : I

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U1NMET01**	**Non Major Elective 1 : Food Science and Nutrition**	**Batch**	**2020 - 2023**
			Semester	**I**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To understand the importance of Nutrition and the role of food in the maintenance of good health.
- To know about the functions, deficiency and toxicity of nutrients.
- To understand Malnutrition and its prevention
- To know about various adulterants in food and the methods of detecting them.
- To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about clasification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U1SBST01	Skill Based Subject 1 - Mathematics For Competitive Examinations - I	Batch	2020 - 2023
			Semester	I
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

To enable the Students

- To understand the fundamental arithmetic skills and problem solving.
- To learn about the average and Problems on numbers.
- To solve problem related to Ages and Calander and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races and games of skills, stocks and shares.
CO3	Find solution to the problems on calender and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-I

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code:	**20U1SBST02**	**Skill Based Subject 2 - Communication Skills- I**	**Batch**	**2020 - 2023**
			Semester	**I**
Hrs/ Week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to over come the same
- To make the students to know various types of listening and the effect of enhancing the listening skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to achieve the following outcomes.

CO Number	**CO Statement**
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	✓	-	-	-	-	-	-	-
CO2	✓	-	-	-	✓	-	-	-	-	-	-	-
CO3	✓	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U2TALT02	Language 1 : Tamil – II	Batch	2020-2023
			Semester	II
Hrs/week	5		Credits	3

நோக்கம்

- சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.
- அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.
- தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருத்தல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	✓	✓	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER-II

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U2ENLT02	Language II-Functional English – II	Batch	2020-2023
			Semester	II
Hrs/ Week	5 Hrs		Credits	3

COURSE OBJECTIVES:

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation
- To make the students appreciate the significant works and style of prose
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
CO1	-	-	-	-	-	-	-	-	-	✓	✓	✓
CO2	✓	-	-	-	-	-	-	-	-	-	✓	✓
CO3	-	-	✓	-	-	-	-	-	-	-	✓	✓

SEMESTER: II

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U2CPCT03	Core 3 :Principles of Marketing	Batch	2020-2023
			Semester	II
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To make the students understand about the modern marketing and marketing Concepts.
- To know clearly about the Functions of Marketing.
- To Familiarize the Concepts of Marketing Mix and channels of distribution
- To enlighten the students on consumer behaviour and rights of consumers.
- To provide knowledge on advertisement and its impact on business.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concepts of marketing and various types of marketing
CO2	Enumerate the functions of Marketing.
CO3	Describe the 7 P's of marketing mix.
CO4	Identify the need for studying Consumer Behaviour and Market Segmentation.
CO5	Demonstrate the advantages of advertising.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P11	P12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	✓	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	✓	-
CO5	-	✓	-	-	-	-	-	-	-	-	✓	-

SEMESTER : II

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U2CPCT04**	**Core 4 : Financial Accounting - II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVE

- To gain knowledge about the various methods of calculating depreciation and about accounting standards.
- To enable the students to know how to find out the average due date, account current and preparation of bills of exchange.
- To know about the methods under single entry system.
- To provide knowledge in the preparation of departmental and branch accounts.
- To make the students to prepare hire purchase and voyage account.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Calculate Depreciation and Reserves and Provisions.
CO2	Calculate the Average Due Date and Prepare Bills of Exchange.
CO3	Prepare the accounts using Single Entry system.
CO4	Computation of Departmental Accounts and Branch accounts.
CO5	Prepare the Hire purchase and Voyage accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER II

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U2CPAT02**	**Allied 2 : Business Finance**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To know the meaning and definition of Business Finance and Function of Finance Traditional and Modern Concepts
- To enable the students to understand about the types and steps of Financial Plan
- To understand the concept of Cost Theory, Earning Theory and types Capitalisation
- To make the students understand the concept of Capital Structure.
- To know the concept various types of Sources and Forms of Finance.

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the meaning and definition of Business Finance and Function of Finance Traditional and Modern Concepts
CO2	Describe the types and steps of Financial Plan
CO3	Explain the concept of Cost Theory, Earning Theory and types Capitalisation
CO4	Enumerate the concept of Capital Structure.
CO5	Explain various types of Sources and Forms of Finance

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER II

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U2CCVE2	Value Based Education II (அறவியலும் பண்பாடும்)	Batch	2020-2023
			Semester	1
Hrs/week	2		Credits	1

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்இ குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டுஇ சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER : II

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U2NMET02**	**Non Major Elective 2 : Floriculture**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scopes and developments
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To the students understand how to make various designs such as vase designs, basket /mug designs etc.,
- To make the students clear about how to propogate various varieties of flower which are Annuals & Perennials and their Growing techniques.
- The students will made to understand whether floriculture can be taken, as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Expalian the scopes and developments floriculture in India.
CO2	To make use of cut flowers in Arranging bouquets and explain the Significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, bakets/mug design creatively by using flowers.
CO4	Explain the varieties of flower which are Annuals & Perennials and their Growing techniques.
CO5	Make floriculture to be taken, as their career by knowing the government incentives subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U2SBST02	Skill Based Subject 3: Mathematics for Competitive Examinations –II	Batch	2020-2023
			Semester	II
Hrs/week	2 Hours		Credits	1

COURSE OBJECTIVES

To enable the Students

- To know about concept of Interest and Profit and loss.
- To develop the ability in solving Permutation , Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-II

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code:	**20U2SBST02**	**Skill Based Subject 4: Communication Skills- II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/ Week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES:

- To make the students to understand the barriers in their communication and the ways to over come the same.
- To make the students to know various types of listening and the effect of enhancing the listining skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO):

On Successful Completion of the course the students should be able to achieve the following outcomes.

CO Number	**CO Statement**
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listining and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	✓	-	-	-	-	-	-	-
CO2	✓	-	-	-	✓	-	-	-	-	-	-	-
CO3	✓	-	-	-	✓	-	-	-	-	-	-	-

SEMESTER-III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U3CPCT05	CORE 05 – Cost Accounting	BATCH	2020-2023
			SEMESTER	III
Hrs/week	5 Hrs		CREDITS	4

COURSE OBJECTIVE

- To enlighten the students on various methods of Costing.
- To make the students to calculate the stock level and Pricing of Material issues.
- To enable the students to compute the labour turnover and know about distribution summary.
- To understand the methods of costing adopted by different types of industries.
- To make the students to reconcile cost and financial statement.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Prepare the cost sheet, Tender and Quotation
CO2	Calculate the Stock Levels and Pricing of Material Issues.
CO3	Calculation of labour turnover and Overhead distribution summary.
CO4	Computation of Process Costing and Operating Costing.
CO5	Prepare the Job Costing, Standard costing, Contract Costing and Reconciliation of cost and financial accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U3CPCT06	Core 6 : Commercial Law	BATCH	2020-2023
			SEMESTER	III
Hrs/week	6 Hrs		CREDITS	3

COURSE OBJECTIVE

- To enable the students to acquire knowledge on legal aspects of business.
- To gain knowledge in concepts of Performance, Discharge and breach of contract.
- To impart knowledge about the contract of agency.
- To familiarise the concept of indemnity, guarantee, bailment and pledge.
- To make the students aware about the contract of sale and hire purchase.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain clearly the basic concepts of commercial Law, Build Operate and Transfer.
CO2	Demonstrate the knowledge about the Capacity, Performance, Discharge and Breach of contract.
CO3	Classify the agents and relationship with Principal and third parties.
CO4	Explain the concepts of Guarantee, Indemnity, Bailment and `Pledge.
CO5	Explain the concept of law of Sale of Goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER : III

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U3CPCT07**	**Core 4 : Financial Accounting - III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVE

- To enable the students to learn the accounting procedures of partnership firm.
- To provide thorough knowledge on settlement procedures of partnership firm.
- To impart knowledge about Dissolution of Partnership Firms.
- To familiarise the students about Fire insurance Claims and Insolvency.
- To make the students understand about human resources accounting and inflation accounting.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To make revaluation of Assets and liabilities of a partnership firm and calculate the ratios for distribution of profits.
CO2	Calculation of dues to be settled in the event of retirement or death of the partner.
CO3	Explain the grounds under which a partnership firm can be dissolved.
CO4	Throw light on insolvency and fire claims.
CO5	Explain the Human Resource Accounting and Inflation Accounting.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER : III

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U3CPCP08**	**Core 8 : Business Application Software - Practical**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To make the students know how to prepare the chairman's speech, Auditors report, minutes of a meeting, invitation, invoice, class time table etc., using word processing.
- To make the students understand the method of preparing mark list final accounts, different types of charts, bank customers account etc., using spreadsheet.
- To make the students clearly know the preparation of PowerPoint for different occasions.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Type of chairman speech, auditors report, minutes of the meeting, prepare an invitation, design an invoice, prepare a class timetable and convert document word format into a Portable Document Format (PDF) and a Portable Document Format (PDF) into a word document.
CO2	Using spreadsheet, prepares a mark list of a number of students, final accounts, draw different types of chart and create a pivot table.
CO3	Prepare PowerPoint presentation for various occasions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	–	✓	-	-	-	-	-	-	-	-	✓
CO2	-	–	✓	-	-	-	-	-	-	-	-	✓
CO3	-	–	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	–	✓	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U3CPAT03	Allied 3 : Business Mathematics	Batch	2020-2023
			Semester	III
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

To understand the basic concepts of set theory, Simple Interest and Compound Interest

To know the basic concepts of Matrices and Solution of Linear Equations using matrices

To learn the concept of differentiation of algebraic functions and its uses in business problems

To Evaluate of definite and Indefinite integrals applicable to business problems.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concepts of set theory and solving problems in sequence and series
CO2	Apply the concepts of simple interest and compound interest in real life problems
CO3	Recollect the basic definition and types of matrices and solve linear equations using matrix method
CO4	Apply the concepts of differential caculus in solving business problems.
CO5	Apply the knowledge of Integral Calculus in solving simple problems.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-
CO4	-	-	-	-	-	✓	-	-	-	-	-	-
CO5	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER III

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U3SBST05**	**Skill Based Subject 5 : Mathematics for Competitive Examinations -III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVE

- To make the students to know the concept of Pipes, Cistern and Probablity.
- To solve problem related to Problems on Boats and Streams .
- To make the students to know the concept of Alligation or mixture,Problem of Heights and distance,odd man out series.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Solve the problems on pipes and cistem.
CO2	Solve the problems on time and distance train, boats and stream.
CO3	Apply the concept of Alligation and height & distance to solve certain types of problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER III

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U3SBST06**	**Skill Based Subject 6: Communication Skills- III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVE

- To make the students to understand the barriers in their communication and the ways to over come the same
- To make the students to know various types of listening and the effect of enhancing the listining skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	to communicate meaningfully and effectively with others
CO2	to explain various types of listining and be a careful listener
CO3	to deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER - III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U3SSCT01A	Self study Course – I மனித வாழ்க்கையும் காந்தியடிகளும்	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

- மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
- இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
- மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
- நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
- காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	✓	-	-	-	-	-	-	✓	-	-	✓	

SEMESTER - III

Programme Code :	II B.Com(PA)	Programme Title		
Course Code:	20U6SSCT01B	Self study Course – III வ.உ.சிதம்பரனாரின் வாழ்க்கை வரலாறு	Batch	2019 - 2022
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

- வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
- சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
- வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
- வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
- விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO 9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U3SSCT01C	Self study Course – I நேதாஜி சுபாஷ் சந்திரபோஸின் வாழ்க்கை வரலாறு	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

- நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
- நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
- சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
- காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.
- நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U3SSCT01D	Self study Course – I ஆ.ப.ஜெ. அப்துல் கலாமின் வாழ்க்கை வரலாறு	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

- அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
- வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
- இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும் தேசப்பற்றை வளர்த்தல்
- இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்.
- ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U3SSCT01E	Self study Course – I ஈ.வெ.ரா பெரியாரின் வாழ்க்கை வரலாறு,	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.

நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.

அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.

பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.

சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U3SSCT01F	Self study Course – I காமராஜரின் வாழ்க்கை வரலாறு	Batch	2020-2023
			Semester	III
Hrs/ Week	-		Credits	1

நோக்கம்

காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.

காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.

உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.

காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.

திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER: IV

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U4CPCT09	Core 9 : Corporate Accounting	Batch	2020-2023
			Semester	IV
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To enable the students to be aware of shares issues and underwriting of shares.
- To make the students to know how to prepare journal entries in issue of preference shares and debentures.
- To prepare the final accounts of a company.
- To make the students to know various methods of valuation of goodwill and shares.
- To make the students know about liquidation of companies and Accounting standard for reporting.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of shares and the procedure to prepare journal and ledger.
CO2	Prepare journal entries for Issue of preference shares and debentures.
CO3	Prepare final accounts of a company.
CO4	Compute the value of goodwill and shares using different methods.
CO5	Prepare liquidator's final statement of accounts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER : IV

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U4CPCT10**	**Core 10 : Company Law and Secretarial Practice**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To impart knowledge about the provisions of the Companies Act 2013, 2015 & 2018.
- To provide knowledge about the role of directors and their powers.
- To make the students understand the powers, duties & liabilities of a company Secretary.
- To make the students know about conducting various meeting of the company and role of Company Secretary.
- To acquire knowledge about various modes of winding up of a Company.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the formation of companies, Memorandum of Association and Articles of Association.
CO2	List out the powers, duties and liabilities of directors.
CO3	Explain the role of company secretary.
CO4	Classify the company meetings and write the minutes of a meeting.
CO5	Explain the various modes of winding up of a company.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5		✓	-			✓	-	-	-	-	-	✓

SEMESTER: IV

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U4CPCP11**	**Core 11 : Tally – Practical**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To make the students know how to create a company and various ledgers, accounting & Inventory vouchers using Tally.
- To make the students understand to prepare the bill wise statement, Bank Reconciliation Statement using Tally.
- To make the students clearly know the calculation of cost allocation using tally

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Create a company with various ledger, accounting vouchers & inventory vouchers.
CO2	Prepare the bill wise statements, Bank Reconciliation statement for various companies
CO3	Make the students to calculate the various cost of production.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER: IV

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U4CPCT12	Core 12 : Industrial Law	Batch	2020-2023
			Semester	IV
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

COURSE OBJECTIVE

- To enable the students to have an overview of Factories Act 1948.
- To know the features of the Industrial Dispute Act & the Trade Union Act.
- To know about the payment of Wages Act1936.
- To learn about the payment of Bonus Act and The Employees' State Insurance Act.
- To create awareness about the Workmen's Compensation Act.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Enumerate the provisions and powers relating to Factories Act.
CO2	Explain the concept of Industrial Dispute Act and Trade Union Act.
CO3	Describe the mode of payment under Payment of Wages Act.
CO4	Determine the bonus under Payment of Bonus Act.
CO5	Examine the Employer's Liability and Non-Liability under The Workmen's Compensation Act.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	✓	-	-	-	✓
CO2	-	✓	-	-	-	-	-	✓	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5		✓	-			-	-	-	-	-	-	✓

SEMESTER : IV

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U4CPCT13	Core 13 : Executive Business Communication	Batch	2020-2023
			Semester	IV
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

- To familiarise the essentials of effective business letters.
- To make the students understand how to make trade enquiries complaints and writing circulars.
- To make the students to know how to make correspondence with banks, insurance companies and various agencies.
- To explain how the reports are prepared by individuals, Committees, Secretary, Executive Heads and preparation of press reports.
- To make the students to know about the part played by the technology in making effectives communication and its uses.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Write various business letters.
CO2	Make trade enquiries, write collection & sales letter and make complaints.
CO3	To explain how to make Correspondence, with banks, insurance companies and various agencies.
CO4	To prepare various reports such as reports by individual, Committees Secretary, Executive Heads, officers including the press reports.
CO5	To make use of various electronic devices for effective communication.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓
CO4	✓	-	-	-	-	-	-	-	-	-	-	✓
CO5	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER: IV

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U4CPAT04**	**Allied 4 : Business Statistics**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

- To know the meaning and definition of Statistics and about various Statistical methods.
- To have a clear idea on Correlation between variables and Regression analysis.
- To know various components of Time series, Method of determining the same,concept of Index numbers , various types and their calculations.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the meaning and definition of Statistics and various statistical methods
CO2	Estimate various Statistical constants.
CO3	Define Correlation and Regression between two variables,their calculation and uses.
CO4	Explain the Time Series analysis and its uses
CO5	Explain types of Index Numbers, their calculations,and their uses.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	-
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER: IV

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U4SBST07	Skill Based Subject 7: Mathematics For Competitive Examinations -IV	Batch	2020-2023
			Semester	IV
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVE

- To make the students to know the methods of solving Problems of Interest and Venn Diagrams
- To solve problem related to on Sequence and series.
- To develop the skills in solving problems for checking ones in Mental Ability and Logical reasoning.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explicate the concept of finance and discover the inference using Venn- diagram.
CO2	Solve the problems on logarithms,area,Volume, Sequence and series.
CO3	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER : IV

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U4SBST08**	**Skill Based Subject 8: Communication Skills- IV**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVE

- To know clearly the use of various symbols for pronunciating the words with proper sounds
- To make aware of various techniques of reading and writing different reports.

COURSE OUTCOME(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To be able to prounuce the words clearly with proper pronunciation.
CO2	Read the given materials properly and to write meaningful reports

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER- IV

Programme Code:	B.Com PA	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U4SSCT02A	Self Study Course 2 : Women's Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

To make the women students understand the legal systems, constitutional frame work and human rights in India.

To understand and appreciate the women's claims to land and their right to property.

To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.

To give a knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	B.Com PA	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U4SSCT02B	Self Study Course 2 : An Introduction to Constitution of India	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	For understand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	B.Com PA	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U4SSCT02C	Self Study Course 2 : Human Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

To prepare for responsible citizenship with awareness of the relationship between Human Rights,democracy and development.

To impart education on national and international regime on Human Rights.

To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Develop skills on human rights advocacy.
CO2	Appreciate the relationship between rights and duties.
CO3	Foster respect for tolerance and compassion for all living creature.
CO4	Create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER- IV

Programme Code:	B.Com PA	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code:	20U4SSCT02D	Self Study Course 2 : Consumer Affairs	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES:

To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO):

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	Comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER – V

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPCT14	Core 14 : Business Valuation Management	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

23. To know Concepts of Values, Business Valuation and Importance of Business Valuation
24. To make the students know about Discounted Cash Flow Valuation analysis
25. To Learn about the concept of Real Option and Book Value
26. To make the students know the Valuation of Assets and Liabilities.
27. To gain the knowledge about the Valuation of intangibles, accounting standards, Human resource accounting.

CO Number	CO Statement
CO1	Describe the Objectives and Importance of Business Valuation.
CO2	Explain the Discounted Cash Flow Valuation analysis and Relative Valuation.
CO3	Explain the Real Option and Book Value.
CO4	Describe the valuation of assets and liabilities.
CO5	Explain the Valuation of intangibles and accounting standards.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPCT15	Core 15 – Taxation - I	Batch	2020-2023
			Semester	V
Hrs/week	6 Hrs		Credits	4

COURSE OBJECTIVE

l) To make the students understand recent amendments in Income Tax.
m) To make them know how to compute taxable income.
n) To Calculate the income from House Property , Business and Profession.
o) To Learn about the concept of Capital Gain.
p) To provide adequate knowledge on tax filing.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Income Tax Act, Assessment year, calculation of total income and Exempted income.
CO2	Explain the Computation of taxable salary.
CO3	Calculate the Taxable Income from House Property, Profits and Gains of Business or profession.
CO4	Explain how to calculate capital gains and its deduction from gross total income.
CO5	Demonstarate how to files Income Tax returns.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER V

Programme Code :	B.Com	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPCT16	Core 16 : Principles of Auditing	Batch	2020-2023
			Semester	V
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

- To understand the fundamental concepts of auditing, its advantages and recent trends in auditing.
- To know clearly about internal control, internal check and internal audit.
- To learn about vouching & its importance and various types of vouchers.
- To make the students to know about how verification and valuation of assets and liabilities is made and the role of auditors in it.
- To know about how the company auditor is appointed and his duties and responsibilities.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To explain about what is audit, its types and recent trends.
CO2	The students must be able to conduct internal audit.
CO3	Prepare different types of vouchers.
CO4	Explain how verification and valuation of assets and liabilities are made and the role of auditor in it.
CO5	Explain how the audit of various institutions is made by a company auditor and the preparation of audit report.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – V

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U5CPCT17**	**Core 17 : Higher Corporate Accounting**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVE

- To Know about the Procedure of Amalgamation of Companies and Purchase Of Companies.
- To know about the preparation of accounts of Holding Companies.
- To know about the preparation of final accounts of Banking Companies.
- To know about the preparation of finala accounts of Insurance Companies
- To know about the double accounts system followed in Electricity Companies.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about amalgamation of the companies and the difference methods followed for the same.
CO2	Prepare accouts for holding companies.
CO3	Prepare final accounts of banking companies.
CO4	Prepare final accounts of insurance companies.
CO5	Apply double accounts system for preparing accounts of electricity companies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	-

(Questions on problems and theory carry 80% and 20% of marks respectively

SEMESTER-V

Programme Code :	B.Com	Programme Title	Bachelor of Commerce	
Course Code :	20U5CPET1A	Elective 1 : Business Research Methods	Batch	2020-2023
			Semester	V
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

28. To know what is business research and its types, understand how to formulate research problems
29. To know about various sampling methods of data collection.
30. To know about various measurement and scaling techniques, statistical tools used in research and steps in drafting reports.
31. To know the calculation of various statistical constant.
32. To know how to use large and small tests of significance.

COURSE OUTCOMES(CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the business research and its types and how to formulate research problems.
CO2	Expalin the methods of sampling and data collection
CO3	Explain the measurement & scaling techniques and statistical tools used in research .
CO4	Calculate various constant such as average, measures of dispersion , correlation and construction of regression lines.
CO5	Apply various test of significance for drawing meaningful inferences.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPET1B	Elective 1: Stress Management	Batch	2020-2023
			Semester	V
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

The course gives the knowledge about the concept of Derivatives to the students.
To enable the students to know about the concept of Stress.
To know the Time management
To provide a broad physical, social and psychological understanding of stress.
To understand the management of work related stress
To develop and implement effective strategies to prevent and manage stress at work.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Works Related Stress .
CO2	Describe the Time Management.
CO3	Describe the Environmental issues and Learning to keep calm.
CO4	Enumerate the Role of group cohesion and team spirit and Developing a sense of Humour.
CO5	Explain the Effective decision Making and Personality.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPET1C	Elective 1: Derivatives	Batch	2020-2023
			Semester	V
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

The course gives the knowledge about the concept of Derivatives to the students.

To enable the students to know about the concept of Derivatives and its types
To gain the knowledge about Options and Swaps.
To make the students understand the future trading mechanism.
To know about Hedging and the development position of Derivatives in India.
To acquire knowledge about the Financial Derivatives Market in India.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Uses of Derivatives.
CO2	Describe the Types of options and Financial Swaps.
CO3	Describe the Evolution of Futures Market in India.
CO4	Enumerate the future Market Trading Mechanism.
CO5	Explain the Financial Derivatives Market in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U5CPET2A**	**Elective 2 :Banking Theory**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

To know the importace of banking in economic development and functions of commercial banks.
To know about relationship between various types of customer and banker. Also know about bill of exchange and its characteristics.
To know fully about the negotiable intruments.
To know clearly about RBI, Commercial banks and their functions.
To understand clearly about demonitization and various forms of cashless transaction.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain meaning, definition,types and importance of Banking.
CO2	Explain about relationship between banker and customer,opening and closure of accounts, bills of exchange and its characteristics.
CO3	Explain about the various negotiable instruments and the statutory protection provided for the same.
CO4	Explain the function RBI and Commercial Banks.
CO5	Explain about advantages and dis advantages of demonitization and various cashless transactions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U5CPET2B	Elective 2 :Investment and Portfolio Management	Batch	2020-2023
			Semester	V
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVE

To know the importace of investment and Elements of Investment.
To know about Features of Equity Share & Preference Share, Features of Debenture.
To know fully about Portfolio Management and Investment Environment.
To know clearly about Portfolio Analysis & Portfolio Selection.
To understand clearly about Portfolio Revision and Evaluation.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain meaning, definition, Elements and importance of Investment.
CO2	Explain about Features of Equity Share & Preference Share, Features of Debenture.
CO3	Explain about the Portfolio Management and Investment Environment.
CO4	Explain the Portfolio Analysis & Portfolio Selection.
CO5	Explain about Portfolio Revision and Evaluation.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-V

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U5CPET2C**	**Elective 2 : Corporate Compliance Management**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To make the students understand the concepts, importance and the approach to compliance management.
- To make the students to know fully about due diligence, its importance& Scope and areas. Also make them to know about IPO,EPO & ESOP.
- To enable the students to know about the secretarial audit.
- To gain knowledge about importance of document verification.
- To know fully about setting ups of business units in India and Abroad

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concepts, importance and approaches to compliance management.
CO2	Explain the importance, Scope of Due diligence, IPO,EPO & ESOP.
CO3	Demonstrate the students knowledge about the secretarial audit.
CO4	Explain how to verify the important documents and Prepare report.
CO5	Explain how to set up business.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER V

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U5NCCT01**	**Non Credit Course 1 :** Aptitude and Soft Skills I	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**3 Hrs**		**Credits**	**-**

COURSE OBJECTIVES

- To acquire inter personal skills, problem solving skills and be an effective goal oriented teamplayer.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	**CO Statement**
CO1	Apply the inter personal and problem solving skills in the placement drive.
CO2	To apply the behavioral skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
CO3	Grasp the approaches and strategies to solve problems with speed and accuracy.
CO4	Ability to reason critically by analyzing , elevating and extending arguments.
CO5	Explain the concepts deal with graphs,tables,number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER-V

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code:	**20U5SSCT03**	**Self Study Course III: General Awareness**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

33. It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
34. Develops a commitment to citizenship, through the ability to make informed decisions about public issues.
35. Create an awareness of the achievements and perspectives of people of different nations and cultures, and of different races, genders and ethnicities.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to:

CO Number	**CO Statement**
CO1	Get familiar with general awareness of the environment around him and its apply it to the society.
CO2	Reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	Have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	–	✓	-	✓	✓	-	✓	-	✓	-	✓	✓
CO2	–	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	-	-	✓	–	-	✓	-	-	✓	✓

SEMESTER-VI

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U6CPCT18	Core 18 - Management Accounting	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To develop an understanding of the conceptual framework of Management Accounting.

To make the students understand about the ratio analysis, its merits demerits and preparation of balancesheet.

To make the students to know about working capital , its sources and determinants ,fund flow statement and cash flow analysis .

To make the students to know how to find out marginal costing.

To provide knowledge about budgeting & budgetary control, its importance and preparation of various types of budgets.

COURSE OUTCOME(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of Management accounting, Cost accounting & Financial Accounting and preparation of financial statements.
CO2	Prepare various ratios for given data and explain their various uses. Also prepare balance sheet from given ratios.
CO3	Demonstrate how to compute working capital, fund flow and cash flow statements.
CO4	Calculate margin costing and break even point from the given data.
CO5	Prepare various types of budgets.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	-	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U6CPCT19	Core 19: Taxation -II	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To know clearly about indirect taxes and their advantages and dis advantages.
- To make the students understand fully about GST..
- To understand clearly about TNGST,GST Act, registration and procedure under GST and filing of returns.
- To know about levy and collection under IGST Act 2017.
- To make the students to know about Customs duty & the corresponding Laws and about Customs duty drawback.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about advantages and disadvantages of Indirect taxes.
CO2	Explain how to calculate SGST,CGST,UGST and IGST.
CO3	File returns for GST.
CO4	Explain how to levy and collect tax under GST.
CO5	Explain how to levy and Collect the customs duty and give exemption to certain goods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-	✓	-	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	✓	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	-

SEMESTER-VI

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce with Professional Accounting	
Course Code :	20U6CPCT20	Core 20 - Financial Management	Batch	2019 - 2022
			Semester	VI
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To know about what is financial management and the role & functions of the financial manager.
- To know fully about the various types of Cost of Capital.
- To understand clearly about various measures of Financial Leverage and theories of Capital Structure.
- To understand the concepts working capital managements and its computations. Also understand the various techniques of Capital Budgeting.
- To understand dividend theories and dividend policy.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain what is finacial management and also the Role & functions of financial manager.
CO2	Compute the cost of capital from the given information.
CO3	Apply the Theories of capital structure for drawing suitable conclusion regarding the approachto be followed.
CO4	Calculate Working Capital and also prepare a capital budget from the given information.
CO5	Apply the dividend theories and determain the dividend to be declared from the given information.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	□	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	B.Com(PA)	Programme Title	Bachelor of Commerce	
Course Code :	20U6CPCT21	Core 21: Project vivo-voce	Batch	2020-2023
			Semester	VI
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

- To know how to apply the various concepts the students has studied so far.
- To know how to collect the relevant data.
- To know how to anlyse collected information for drawing required inferences.
- To draw valid conclusions.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Apply the relevant concepts suitably to study a particular problem.
CO2	To decideabout the trelevant method of collecting data, prepare exhaustive questionnaire and collect the information.
CO3	Use statistitical methods and calculate the relevant constants.
CO4	Using the statistical constants calculated draw valid inferences.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET3A**	**Elective 3: Principles Of Auditing And Assurance**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To gain knowledge on the fundamental concepts of Auditing, objectives of auditing, difference between accounting and auditing.
- To make the students to know fully about Internal check and Internal audit, importance of vouching verificationand valuation of assets and liabilitiesand about depreciation.
- To make the students understand about appoinment, rights, duties,liabilities of a companies and investigation procedure.
- To make the students understand about Auditing and Assurance Standards, Auditing Engagement, Control of quality of audit work.
- To make the students understand about the preparation of company audit report.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about the fundamental concepts of Auditing objectives of auditing, difference between accounting and auditing.
CO2	Explain about the Internal check and Internal audit, importance of vouching verification and valuation of assets and liabilities and about depreciation.
CO3	Explain about appoinment, rights, duties,liabilities of a companies and investigation procedure.
CO4	Explain about the Auditing and Assurance Standards, Auditing Engagement, Control of quality of audit work.
CO5	Explain about the preparation of company audit report.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET3B**	**Elective 3 : Retail Marketing**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

The course gives the knowledge about retailing and visual merchandise management.

- To make the students to understand the importance and scope of retailing,challenges and opputunity to a retailer.
- To make the students understand the organised and unorganised retail formats and role of MNC's in retailing.
- To enable the students to know the various stages in establishing a retail shop.
- To make the students understand managing various aspects of retailing and its promotion..
- To make the students in analysing of profile of retailer shoppers and challenges in retailing in India.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describe the concept of retailing,challenges and opputunity to a retailer.
CO2	Explain the various organised and unorganised retail formats and role of MNC's in retailing.
CO3	Explain the management at various stages of establishing a retail business.
CO4	To make the students understand managing various aspects of retailing and its promotion.
CO5	plain how to analyse of shoppers profile and what are the challenges in retailing in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET3C**	**Elective 3 : Customer Relationship Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To make the students understand the the various types of relationship marketing and about the customer life cycle.
- To make the students understand the various strategies of Customer Relationship Management, difference between CRM and relationship marketing and importance of Customer Relationship Management.
- To make the students understand the contact and enterprise marketing management, their concepts and about CRM in India.
- To enable the students to know the concepts of value chain, benchmarks and vendor selection.
- To make the students to know about data warehouse and data mining, best practices in marketing technologies in Indian scenario.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the relationship marketing,its types and customer life cycle.
CO2	Explain the concept of CRM, strategies and importance of CRM.
CO3	Explain the concepts of contact and enterprise marketing management.
CO4	Explain the concepts of value chain, benchmark and vendor selection.
CO5	Tell about data warehouse and data mining and the best practices in marketing technologies followed in India.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER-VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET4A**	**Elective 4: Strategic Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To make the students understand about the business environment, business policy and strategic management.
- To make the students know about Strategic Analysis and strategic planning.
- To know about various forms of Functional Strategy.
- To know about the Implementation and Control of a strategy formulated in an organization.
- To understand clearly about Business Process Re-Engineering and Total Quality Management.

COURSE OUTCOMES(CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain about the business environment, business policy and strategic management.
CO2	Explain How to make Strategic Analysis and strategic planning.
CO3	Explain how to Formulate various Functional Strategy.
CO4	Explain how to implement and Control of a strategy formulated in an organization.
CO5	Explain the business process re-engineering and total quality management.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET4B**	**Elective 4: Cost Audit**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To acquire the knowledge about meaning, scope, nature, purpose, advantages and disadvantages of cost audit.
- To make the students understand the techniques and programmes following cost audit.
- To know about qualificatuion, rights,responsibilities and functions of a cost auditor.
- To make the students to know about preparation of cost audit reports and statutory provisions of cost audit rules.
- To know about other areas of audit such as Human Resource audit, Operational audit forecast audit etc.,

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define cost audit and explain the difference between cost audit, financial audit and management audit.
CO2	Explain the techniques and programme followed in cost audit and also about faces / stages of cost audit.
CO3	Tell clearly about rights, responsibilities and function of a cost auditor.
CO4	Explain the different aspects of cost audit and about statutory provision of cost audit rules.
CO5	Tell about the other areas of audit such as HR audit, Operational Audit, Forecast Audit, Social Audit, Tax Audit and Forensic Audit.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6CPET4C**	**Elective 4: Brand Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To understand the methods of managing brands and strategies for brand management.
- To successfully establish and sustain brands and lead to extensions

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Define Branding, Functions of Brand, Significance of Brands and Different Types of Brands.
CO2	Explain the Strategic Brand Management process, Brand vision and Brand Elements
CO3	Explain the Brand image Building and Brand Loyalty programmes.
CO4	Explain the Different type of brand extension and Factors influencing Decision for extension
CO5	Describe the Measuring the Brand Performance, Brand Equity Management, Global Branding strategies and Brand Leverage, Role of Brand Manager.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER VI

Programme Code :	**B.Com(PA)**	**Programme Title**	**Bachelor of Commerce with Professional Accounting**	
Course Code :	**20U6NCCT02**	**Non Credit Course 1 :** Aptitude and Soft Skills I	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/week	**3 Hrs**		**Credits**	**-**

COURSE OBJECTIVES

- To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Apply the inter personal and problem solving skills in the placement drive.
CO2	To apply the behavioral skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
CO3	Grasp the approaches and strategies to solve problems with speed and accuracy.
CO4	Ability to reason critically by analyzing , elevating and extending arguments.
CO5	Explain the concepts deal with graphs,tables,number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

Kovai Kalaimagal College of Arts and Science

Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

DEPARTMENT OF BUSINESS ADMINISTRATION WITH COMPUTER APPLICATIONS

PROGRAMME EDUCATIONAL OUTCOME (PEO), PROGRAMME OUTCOMES (PO), COURSE OUTCOMES (CO)

BBA(CA)

For the Students Admitted in the Academic year 2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES AND PROGRAMME OUTCOMES

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO1: Graduates will undertake diverse careers in global business environment.
PEO2: Graduates will be successful rural entrepreneurs dealing in Agriculture based projects.
PEO3: Graduates would also be engaged in research and consultancy, have been motivated in that direction.

PROGRAMME OUTCOMES (PO)

PO1: Exhibit proficiency in business related communication (written and oral)

PO2: Equip with advanced business acumen that helps them to understand the key business functions and organizational resources for efficient business management

PO3: Select and apply appropriate techniques, resources and modern Management and information technology tools to cope up with recent trends

PO4: Apply the knowledge acquired in inter disciplinary subject like mathematics, statistics, economics and commerce to supplement the ability to make right decisions in right time.

PO5: students would be persons, who are fully confident of taking up any kind of assignment and execute the same with professionalism**.**

PO6: Demonstrate critical thinking skills in understanding managerial issues and problems related to the global economy and international business

PO7: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings

PO8: Execute Managerial responsibilities with professional ethics and have concern for thesocial issues.

PO9: Able to evaluate one's own strengths and weakness, and be emotionally stable at the time of crisis

PO10: Acquire entrepreneurial traits to start and manage their own innovative business successfully

PO11: Would contribute to the welfare of the nearby community and for environmental Protection

PO12: Recognize the need for continuously enhancing the knowledge through learning throughout the life.

SEMESTER I

Programme code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U1TALT01	Course Title Language 1: Tamil- I	Batch	2020-2023
			Semester	I
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

நோக்கம்

- சமூகம் பற்றியசிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்
- புதுக்கவிதைகள்,சிறுகதைகள் ஆகியவற்றைப் வாசிக்கவைத்தல்,எழுதவைத்தல்
- தமிழ்நாடுஅரசுப்பணியாளர் போட்டித்தேர்வுமையம் நடத்தும் போட்டித் தேர்வுகளுக்குமாணவர்களைத் தயார் செய்தல்.
- மாணவர்களின் வாசிக்கும் ஆற்றலைஊக்குவிக்கவும்,தமிழ் இலக்கியத்தோடுதொடர்புடையபிற நூல்களையும் மாணவர்கள் சுயமாகதற்றுஉணரச்செய்தல்
- மாணவர்கள் பிழையில்லாமல் எழுதுவதற்கும்,பேசுவதற்கும்,கருத்துப்பரிமாற்றத்திற்கும் இலக்கணம் உதவுகின்றனஎன்பதைஅறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்டவரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	✓	✓	-	✓	-	-	✓	-
CO3	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER-I

Programme code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U1FRLT01	Course Title : Language 1- French I	Batch	2020-2023
			Semester	I
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of French language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Have access to the works of great French writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER I

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U1HILT01	Course Title : Language 1: Hindi I	Batch	2020-2023
			Semester	I
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

To enable the students to understand the basic structure of Hindi language

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Help the learners to communicate with others in any part of India with ease.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER I

Programme code :	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code:	**20U1MLLT01**	**Course Title : Language 1: Malayalam I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week:	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Help the learners to learn other Indian languages like Sanskrit,Tamil etc., through Malayalam without much effort.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER-I

Programme code :	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code:	**20U1ENLT01**	**Course Title : Language 2- Functional English – I**	**Batch**	**2020-2023**
			Semester	**I**
Hrs/week:	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation.
- To make the students appreciate the significant works and style of prose.
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Speak and Write without commiting grammatical errors.
CO2	Read and appreciate simple literary works.
CO3	Deal with various conversational situations with confidence.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	-	-	-	-	-	-	-	-	-	✓	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	✓	-	-	-	-	-	✓

SEMESTER I

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U1ACCT01	Course Title: Core 1: Principles of Management	Batch	2020-2023
			Semester	I
Hrs/week	4 Hrs		Credits	4

COURSE OBJECTIVES

To make the students understand the concept of

- Business organization and its functions
- Planning ant the different types of plans for various business scenarios
- The different forms of organization structures and its application in different businesses.
- Decision making with proper selection of various resources, through analysis of business Resources.
- Coordination of business activities with team cohesion

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CONumber	CO Statement
CO1	Explain the fundamental concepts in business organization and its functions
CO2	Describe the different planning techniques in business environment
CO3	Elucidate the different forms of organization structures and its applicability in business organizations
CO4	Discuss the various factors influencing the business to make proper decisions
CO5	Able to coordinate the business activities with team spirit.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	-	√	√	-	-	-	-	-	√	-	√
CO2	√	-	-	-	√	√	-	-	√	-	√	-
CO3	√	-	√	-	√	√	√	-	-	-	-	-
CO4	-	-	-	-	-	-	-	√	-	-	√	√

SEMESTER I

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U1ACCT02	CourseTitle:Core2:Business Economics	Batch	2020-2023
			Semester	I
Hrs/week	4 Hrs		Credits	3

COURSE OBJECTIVES

The students will be made to understand the

- The objectives of business firms and the law of demand and supply.
- The demand and supply analysis with relevant economic implications.
- The different market structures and the degrees of competition.
- Different pricing patterns and the cost relationships.
- The role of government in regulating the economic conditions.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the objectives of business firms and the law of demand and supply
CO2	Relate the demand and supply analysis with relevant economic implications to determine equilibrium price
CO3	Interpret the characteristics of different market structures and the implications of the degrees of competition due to pricing and output decisions
CO4	Analyze the different pricing patterns of the product and study the long run and short run relationship of costs.
CO5	Associate the role of government in regulating the markets in current scenario

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	-	-	-	√	-	-
CO2	-	√	-	√	-	√	-	√	-	√	-	-
CO3	-	√	-	√	-	√	-	√	-	√	-	-
CO4	-	√	√	√	-	√	-	-	-	√	-	-
CO5	-	√	-	√	-	√	-	√	-	√	√	-

SEMESTER I

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U1ACCP03	Course Title: Core 3: Computer Applications in Business – Practical I	Batch	2020-2023
			Semester	I
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVES

To make the students understand

- Documentation related jobs with basic editing works formatting a page with paragraph spacing, spelling and grammar checks, numbering & bulleting, and alignments.
- To prepare presentations with organization charts, animations and graphs.
- E-mails and social networking sites for professional growth
- To know about the cyber security issues and the preventive measures to avoid cyber-crimes.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Prepare documentation related jobs with basic editing works formatting a page with paragraph spacing, spelling and grammar checks, numbering & bulleting, and alignments.
CO2	prepare presentations with organization charts, animations and graphs.
CO3	Create and work with E-mails and social networking sites for professional growth
CO4	Describe the cyber security issues and the preventive measures to avoid cyber-crimes.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	-	√	-	-	-	√	-	-	√	-	√
CO2	√	-	√	-	-	√	√	-	-	√	-	√
CO3	√	-	√	-	-	√	√	-	-	√	-	√
CO4	√	-	√	-	-	-	√	-	-	√	-	√

SEMESTER I

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U1ACAT01	Course Title: Allied 1: Business Mathematics & Statistics	Batch	2020-2023
			Semester	I
Hrs/week	6 Hrs		Credits	4

COURSE OBJECTIVES

- To enable the Students
- To understand the basic concepts of set theory, Matrices and Mathematics of Finance
- To understand the concept of Averages and Dipersion and the calculation of related constants.
- To clearly understand the theory and applications of Correlation and Regression
- To know various components of Time series, Methods of determining the same, concept of Index numbers , various types and their calculations

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Define the basic concepts of set theory, matrices and calculations of simple and compound interest.
CO2	Solve system of linear equations using matrices.
CO3	Know the statistical methods and calculation of statistical constants.
CO4	Define Correlation and regression, their analysis and their applications.
CO5	Explain time series analysis and its uses and also the calculation of various types of index numbers.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	-	-	-	-	-	-	-
CO2	-	-	-	✓	✓	-	-	-	-	-	-	-
CO3	-	-	-	✓	✓	-	-	-	-	-	-	-
CO4	-	-	-	✓	✓	-	-	-	-	-	-	-
CO5	-	-	-	✓	✓	-	-	-	-	-	-	-

SEMESTER I

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U1VBET01	Value Based Education 1: சுற்றுப்புறச் சூழல் அறிவியல்	Batch	2020 - 2023
			Semester	I
Hrs/week	2 Hrs		Credits	1

நோக்கம்

- மாணவர்கள் பல்வேறுவகையான இயற்கை வளங்களை புரிந்துகொண்டு அதை பாதுகாப்பது தங்கள் பொறுப்பு என உணரச்செய்தல்
- சூழ்நிலை மண்டலக் கோட்பாடுகள், சூழ்நிலை மண்டலத்தின் வகைகள், அதனை சிதைப்போர், பல்லுயிர் பெருக்கத்தின் பல்வேறு நிலைகளையும், அவற்றின் பாதுகாப்பினையும் மாணவர்களைப் புரிந்துகொள்ளச் செய்தல்.
- பல வகையான சுற்றுச்சூழல் மாசுபாடுகளையும் அவற்றின் காரணங்கள், விளைவுகள், அவற்றை தடுப்பதில் மாணவர்களின் பங்களிப்பு ஆகியவற்றை மாணவர்களை உணரச்செய்தல்.
- இயற்கைச் சீற்றங்களினால் ஏற்படும் பாதிப்பிலிருந்து தற்காப்புகள் பற்றிய விழிப்புணர்வை மாணவர்களுக்கு ஏற்படுத்துதல்.
- சுற்றுச்சூழல் வளங்களை இயற்கைச் சீற்றங்களிலிருந்து பாதுகாப்பதன் அவசியத்தையும், அதற்கான சட்டங்களையும் எடுத்துக்கூறுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	சுற்றுப்புறச்சூழலில் உள்ள பல்வேறு வகையான இயற்கை வளங்களையும் அவற்றைப் பாதுகாப்பதும் தங்கள் பொறுப்பு என உணரச்செய்தல்.
CO2	சூழ்நிலை மண்டலக் கோட்பாடுகள், வகைகள் மற்றும் பல்லுயிர் பெருக்கத்தின் முக்கியத்துவத்தை உணர்ந்து கொள்ளுதல்.
CO3	பல்வேறு வகையான சுற்றுச்சூழல் மாசுபாடுகளையும் அவற்றின் காரணங்கள், விளைவுகள், அவற்றை தடுப்பதில் மாணவர்களின் பங்களிப்பு ஆகியவற்றை மாணவர்களை உணர்ந்து கொள்ளுதல்.
CO4	இயற்கைச் சீற்றங்களினால் ஏற்படும் பாதிப்பிலிருந்து தற்காப்புகள் பற்றிய விழிப்புணர்வை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	சுற்றுச்சூழல் வளங்களை பாதுகாப்பதன் அவசியத்தையும், அதற்கான சட்டங்களையும் மாணவர்கள் பின்பற்றுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER I

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U1NMET01	Non Major Elective 1 : Food Science and Nutrition	Batch	2020-2023
			Semester	I
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVE

s) To understand the importance of Nutrition and the role of food in the maintenance of good health.
t) To know about the functions, deficiency and toxicity of nutrients.
u) To understand Malnutrition and its prevention
v) To know about various adulterants in food and the methods of detecting them.
w) To have an awareness on the prevailing laws, hygiene and sanitation relating to food safety.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	identify the properties of various food components.
CO2	Explain the role of nutrition in the maintenance of good health.
CO3	Explain about clasification, sources, functions, requirements, health hazards due to deficiency and excess of these vitamins.
CO4	Explain the problem of malnutrition and measures to overcome the same.
CO5	Explain the various laws, available for food safety and find out whether the food is adulterated.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO4	-	-	-	-	-	✓	-	-	-	✓	-	✓
CO5	-	-	-	-	-	✓	-	-	-	✓	-	✓

SEMESTER I

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U1SBST01	Course Title : Skill Based Subject 1 : Mathematics for Competitive Examinations – I	Batch	2020-2023
			Semester	I
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVES

To enable the Students

- To understand the fundamental arithmetic skills and problem solving.
- To learn about the average and Problems on numbers.
- To solve problem related to Ages and Calendar and Clocks.

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Recall the basic concepts of numerical computation.
CO2	Solve problems on ages, races and games of skills, stocks and shares.
CO3	Find solution to the problems on calendar and clocks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	✓	-	✓	-	-	-	-	-	-
CO2	-	-	✓	✓	-	✓	-	-	-	-	-	-
CO3	-	-	✓	✓	-	✓	-	-	-	-	-	-

SEMESTER I

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U1SBST02	Skill Based Subject 2 : Communication Skills I	Batch	2020-2023
			Semester	I
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students to understand the barriers in their communication and the ways to overcome the same
- To make the students to know various types of listening and the effect of enhancing the listening skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	To communicate meaningfully and effectively with others
CO2	To explain various types of listening and be a careful listener
CO3	To deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO2	-	-	-	-	✓	✓	-	-	-	✓	-	✓
CO3	-	-	-	-	✓	✓	-	-	-	✓	-	✓

SEMESTER II

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U2TALT02	Language 1 : Tamil – II	Batch	2020 - 2023
			Semester	2
Hrs/week	5		Credits	3

நோக்கம்

சமூகம் பற்றிய சிந்தனைகளைத் தமிழ்ப் படைப்பிலக்கியங்கள் மூலம் ஏற்படுத்துதல்

இலக்கியங்கள், உரைநடைகள் ஆகியவற்றை வாசிக்க வைத்தல் மற்றும் விழிப்புணர்வை ஏற்படுத்துதல்.

அடிப்படைத் தமிழ் இலக்கணத்தையும், பயன்பாட்டுத் தமிழான மொழிபெயர்த்தல், கடிதம் மற்றும் மடல்கள் எழுதுதல் பற்றியும் மாணவர்களை அறியச் செய்தல்.

தமிழ்நாடு அரசுப்பணியாளர் போட்டித்தேர்வு மையம் நடத்தும் போட்டித் தேர்வுகளுக்கு மாணவர்களைத் தயார் செய்தல்.

மாணவர்களின் வாசிக்கும் ஆற்றலை ஊக்குவிக்கவும், தமிழ் இலக்கியத்தோடு தொடர்புடைய பிற நூல்களையும் மாணவர்கள் சுயமாக கற்று உணரச்செய்தல்

பாப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் மொழியின் வாயிலாக பண்பாடு, கலைகள் மற்றும் மரபுகள் முதலியவற்றை அறிந்தல்.
CO2	நீதி இலக்கியங்கள், பக்தி இலக்கியங்கள் மூலம் வாழ்வியல் நெறிமுறைகளை அறிதல். உயர்ந்த நோக்கத்துடன், சமுதாயத்தை நேசிக்கத் தகுந்தவர்களாக இருக்கல்.
CO3	தமிழ் இலக்கியங்கள் வாயிலாக பல வகையான வாழ்க்கைத்தரம், மற்றும் மக்களின் வாழ்க்கை முறைகளைத் தெரிந்து கொள்ளுதல்.
CO4	அறத்தின் வழிநின்று பொருளீட்டி இன்பம் துய்ப்பது உன்னத வாழ்வின் அடிப்படை என்பதை இலக்கியங்கள் வாயிலாக மாணவர்கள் உணர்தல்.
CO5	சமுதாயம் மற்றும், கலைகள் சார்ந்த கவிதைகள் மற்றும் உரைநடைகளும், கருத்து பரிமாற்றத்திறனுக்கு உரிய அடிப்படை தமிழ் இலக்கணம் மற்றும் பயன்பாட்டுத் தமிழுக்குரிய பகுதியும், தன்முயற்சிப்படிப்பின் வாயிலாக, பேச்சுக்கலையின் முக்கியத்துவம், தேவை மற்றும் திறன்களை மாணவர்கள் அறிந்துகொள்ளல்.

நிரல் விளைவுகளைக் கொண்டவரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	-	✓	-	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	✓	✓	-	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	✓	-
CO4	-	-	-	-	✓	-	-	-	-	✓	-	-
CO5	✓	-	-	-	-	-	-	-	✓	-	-	-

SEMESTER II

Programme code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U2FRLT02	Course Title : Language 1: French II	Batch	2020-2023
			Semester	II
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

To enable the students to understand the basic structure of French language.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Have access to the works of great French writers.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER II

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U2HILT02	Course Title : Language 1: Hindi II	Batch	2020-2023
			Semester	II
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVE

To enable the students to understand the basic structure of Hindi language.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Help the learners to Hindi language with the basics
CO2	Develop the skills of speaking and writing without flaws.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U2MLLT02	Course Title : Language 1: Malayalam II	Batch	2020-2023
			Semester	II
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVE

To enable the students to understand the basic structure of Malayalam language.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	To learn the Malayalam language
CO2	Develop the skills of speaking and writing without flaws.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	✓	-	-	-	-	-	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme code	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U2ENLT02**	**Course Title : Language 2: Functional English II**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVE

- To enable the students to understand the basic grammar in English.
- To acquaint students with the structure and strategies of conversation.
- To make the students appreciate the significant works and style of prose.
- To develop the skills of speaking and writing without flaws.
- To develop an interest in the minds of the students to enjoy and appreciate the literary works in English.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	**CO Statement**
CO1	Develop an interest in the minds of the students to enjoy and appreciate the literary works in English.
CO2	Develop the skills of speaking and writing without flaws.
CO3	Help the learners to have a good critical thinking.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**P10**	**P11**	**P12**
CO1	-	-	-	-	✓	-	✓	-	-	-	-	-
CO2	✓	-	-	-	✓	-	✓	-	-	-	-	-
CO3	-	-	-	-	✓	-	✓	-	-	-	-	-

SEMESTER II

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U2ACCT04**	**Course Title: Core 4: Marketing Management**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/Week	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

On successful completion of this course, the students should will understand

- The concept of marketing and the factors influencing the marketing environment
- Different market segments and formulation of marketing mix strategies based on buyer behaviours
- The product life cycle and the new product development strategies
- The effect of pricing policies in achieving success
- The creation of brand equity and how to position the brands

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Describe the concept of marketing and the factors influencing the marketing environment
CO2	Analyse different market segments and formulation of marketing mix strategies based on buyer behaviours
CO3	Discuss the product life cycle and the new product development strategies
CO4	Explain the effect of pricing policies in achieving success
CO5	Elucidate the creation of brand equity and positioning of brands

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	-	✓	-	✓	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	✓
CO5	-	✓	✓	✓	✓	-	-	-	✓	-	✓	✓

SEMESTER II

Programme code:	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U2ACCT05	Course Title: Core 5 Principles of Accountancy	Batch:	2020 – 2023
			Semester	II
Hrs/Week	5 Hrs		Credits:	4

COURSE OBJECTIVE

The students should be able to understand

- The concept of accounting, types of accounts and book keeping
- Prepare the cash book, trial balance and bank reconciliation statements
- Prepare profit and loss account and balance sheet
- Calculate income and expenditure and depreciation
- To prepare accounts from incomplete records

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the concept of accounting, types of accounts and book keeping
CO2	Prepare the cash book, trial balance and bank reconciliation statements
CO3	Prepare profit and loss account and balance sheet
CO4	Calculate income and expenditure and depreciation
CO5	To prepare accounts from incomplete records

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	√	√	-	-	-	√	-	√
CO2	-	√	√	√	√	√	-	-	-	√	-	√
CO3	-	√	√	√	√	√	-	-	-	√	-	√
CO4	-	√	√	√	√	√	-	-	-	√	-	√

SEMESTER II

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U2ACCP06	Course Title: Core:6 Computer Applications in Business – Practical II	Batch	2020-2023
			Semester	II
Hrs/week	2 Hrs		Credits	2

COURSE OBJECTIVES

To make the students to

- Create tables, use sorting options, filters and draw graphs by using spread sheets.
- Analyse and interpret business data with spread sheets
- Create company and prepare ledgers and journals
- Analyse and explain the financial reports with accounting packages

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Compute basic statistical tools like measures of central tendency, dispersion and correlation using spread sheet
CO2	Illustrate various types of charts in excel for analysis
CO3	Create company, groups, vouchers and ledger in Tally
CO4	Analyse the profit and loss account, income statement and balance sheet to take business decisions through Tally

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		-	√	-	-	-	√	-	-	√	-	√
CO2		-	√	-	-	√	√	-	-	√	-	√
CO3		-	√	-	-	√	√	-	-	√	-	√
CO4		-	√	-	-	-	√	-	-	√	-	√

SEMESTER II

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	20U2ACAT02	Course Title: Allied 2 Operations Research	Batch	2020-2023
			Semester	II
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To enable the Students
- To understand the basic concepts of Operations Research and Solving LPP
- To solve Transportation and Assignment problems
- To understand the concept of Game theory , Queuing theory PERT and CPM.

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Define Operations Research, Linear Programming Problem and explain the methods of solving Solution of LPP using Graphical Method
CO2	Solve Transportation and Assignment problems
CO3	Construct the Network for the project, Calculate the different types of Floats and Critical Path
CO4	Construct the Network and Calculate probability of completion of the project using PERT
CO5	Explain the concepts of Game Theory and solve the Replacement Problems.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	√	√	-	√	-	-	-	-	-	-
CO2	-	-	√	√	-	√	-	-	-	-	-	-
CO3	-	-	√	√	-	√	-	-	-	-	-	-
CO4	-	-	√	√	-	√	-	-	-	-	-	-
CO5	-	-	√	√	-	√	-	-	-	-	-	-

SEMESTER II

Programme Code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code	**20U2VBET02**	**Value Based Education II**	**Batch**	**2020 - 2023**
		(அறவியலும் பண்பாடும்)	**Semester**	**II**
Hrs/week	2		**Credits**	**1**

அறவியலும் பண்பாடும் - (தனிமனித விழுமியங்கள்,குடும்ப விழுமியங்கள், சமுதாய விழுமியங்கள், பணிசார்ந்த விழுமியங்கள், தேசிய விழுமியங்கள், உலகளாவிய விழுமியங்கள்)

நோக்கம்

- ஒவ்வொருவரும் தன்னை உயர்த்திக் கொண்டு, சமுதாய மக்களுடன் இணக்கமாக வாழ்ந்து சமுதாயத்தை உயர்த்த வேண்டும். உன்னத இலட்சியத்திற்காக தமது வாழ்க்கையை அர்த்தமுள்ளதாக ஆக்கிக் கொள்ள வேண்டும்.
- குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாடு, உணவே மருந்து, ஆளுமைப்பண்பு, தலைமைப்பண்பை மாணவர்களிடம் உருவாக்குதல்.
- உலக நாடுகளுடன் ஒற்றுமை, புரிந்துணர்வு ஆகியவற்றின் மூலம் இந்தியாவின் வலிமையை உணரச்செய்தல்.
- வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும், பற்றி மாணவர்களை உணரச்செய்தல்.
- **பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)**

CO Number	CO Statement
CO1	தன்னை, உள்நோக்க அறிவால் ஆராய்ந்து தன்னிடமுள்ள உணர்ச்சி வயப்பட்ட குணங்களை எல்லாம் மாற்றியமைத்துக் கொள்ளச் செய்தல்.
CO2	குடும்ப அமைதி, ஐந்தொழுக்கப் பண்பாட்டை அறிந்து, அதன்படி வாழ்ந்து தன்னை உயர்த்திக் கொள்ளச் செய்தல்.
CO3	வாழ்க்கையின் இலக்கை அடையத் தேவையான தகுதியை வளர்த்துக் கொள்ளல்.
CO4	பிற நாடுகளோடு இந்தியா கொண்டுள்ள தொடர்பின் மூலம் நமது நாட்டினுடைய கலாச்சாரம், பண்பாட்டினை உணரச்செய்தல்.
CO5	வளர்ந்துவரும் இந்தியா, உலகிற்கு வழங்கும் செய்தி, வேற்றுமையில் ஒற்றுமை, இந்தியாவும் ஆன்மீகமும் பற்றி மாணவர்களை உணரச்செய்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	✓	-	-	✓	-	-	-
CO2	-	-	-	-	✓	-	-	-	✓	-	-	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-
CO5	✓	-	-	-	-	-	-	-	-	-	-	

SEMESTER II

Programme Code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	**20U2NMET02**	**Non Major Elective 2 : Floriculture**	**Batch**	**2020-2023**
			Semester	**II**
Hrs/week	**2 Hrs**		**Credits**	**2**

COURSE OBJECTIVE

- To make the students know what is floriculture, its status, scope and development.
- To make the students to know how to cultivate various types of cut flowers, arranging bouquets and scope of loose flowers to trade.
- To make the students understand how to make various designs such as vase design, basket/mug design etc.,
- To make the students clear about how to propogate various varieties of flowers which are Annuals &Perennials and their growing techniques.
- The students will be made to understand whether floriculture can be taken,as their career and the opportunities available.

COURSE OUTCOME (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the scope, status and development of floriculture in India.
CO2	To make use of cut flowers in arranging bouquets and explain the significance of loose flowers to trade.
CO3	Demonstrate how to make vase design, basket / mug design creatively by using flowers.
CO4	Explain the varieties of flowers which are annuals and perennials and their growing techniques.
CO5	Make floriculture to be taken as their career by knowing the government incentives, subsidies and other supporting agencies.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	✓	-	-
CO2	-	-	-	-	-	-	-	-	-	✓	-	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	-
CO4	-	-	-	-	-	-	-	-	-	✓	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER II

Programme Code:	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U2SBST03	Skill Based Subject 3 : Mathematics for Competitive Examinations II	Batch	2020-2023
			Semester	II
Hrs/week:	2 Hours		Credits	1

COURSE OBJECTIVES

To enable the Students

- To know about concept of Interest and Profit and loss.
- To develop the ability in solving Permutation, Combinations and Bankers Discount.
- To Solve Problems of Permutations and combinations.

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the basic concepts of mathematics of finance.
CO2	Solve the problems on time and distance, time and work.
CO3	Apply the concept of permutation and combinations to solve problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	√	√	-	√	-	-	-	-	-	-
CO2	-	-	√	√	-	√	-	-	-	-	-	-
CO3	-	-	√	√	-	√	-	-	-	-	-	-

SEMESTER II

Programme Code:	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U2SBST02	Skill Based Subject 4: Communication Skills II	Batch	2020-2023
			Semester	II
Hrs/week:	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students to understand the barriers in their communication and the ways to overcome the same
- To make the students to know various types of listening and the effect of enhancing the listening skills
- To encourage Group discussion and introduce to speak in different situations and the etiquette to be maintained.

COURSE OUTCOMES(CO)

On successful completion of the course, students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	to communicate meaningfully and effectively with others
CO2	to explain various types of listening and be a careful listener
CO3	to deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER- III

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U3ACCT07	Course Title: Core 07: Financial Management	Batch	2020-2023
			Semester	III
Hrs/Week	6Hrs		Credits	4

COURSE OBJECTIVES

To make the students understand clearly about,

- The role & functions of the finance manager.
- The types of Cost, and the concept of Capital.
- The various measures of Financial Leverage and theories of Capital Structure.
- The concepts of Working Capital Management and its computation, and the various techniques of Capital Budgeting.
- The dividend theories and dividend policy.

COURSE OUTCOMES(CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain what is financial management and also the role & functions of financial manager.
CO2	Compute the cost of capital from the given information.
CO3	Apply the theories of capital structure for drawing suitable conclusions
CO4	Calculate working capital and also prepare a capital budget from the given information.
CO5	Apply the various dividend theories and determine the dividend to be declared from the given information.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	✓	-	-	-	-	-
CO2	-	✓	✓	✓	-	-	-	-	-	-	-	-
CO3	-	✓	✓	✓	-	-	-	-	-	-	-	-
CO4	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	✓
CO5	-	✓	✓	✓	✓	-	-	-	-	-		

SEMESTER III

Programme code :	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U3ACCT08	Course Title: Core: 8 Organisational Behaviour	Batch	2020-2023
			Semester	III
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

- Predict the human behaviour in the workplace from an individual, group, and organizational perspective
- Analyse and approach various organizational situations with managerial skills like Leadership, Decision making, Conflict handling.
- Employ positive attitude, Ethical values, guidance and counselling in organizational process

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Well versed with the various intelligence test in order to assess one's intelligence quotient
CO2	Implement group and individual motivational theories and techniques
CO3	Concentrate on factors enhancing job satisfaction in order to increase productivity
CO4	Apply the knowledge acquired to manage the groups for resolving any kind of conflicts and enhancing the effectiveness of supervision
CO5	Be an effective counsellor for imbibing leadership qualities and for motivating employees to be a good citizen with concern for social problems

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	√	√	√	-	-	-	√	-	-	-	√
CO2	-	√	√	-	√	-	-		√	-	-	-
CO3	√	-	-	-	√	-	√	√	√	-	-	-
CO4	√	-	√	-	√	√	√		-	√	-	-
CO5	√	-	√	-	-	-	-	√	√	-	√	-

SEMESTER III

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U3ACCT09**	**Core 9 : Relational Database Management system**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/Week	**6 Hrs**		**Credits**	**3**

COURSE OBJECTIVES:

- To make the students to understand
- basic concepts of Database,its system and Evolution.
- database development life cycles, Various Data models,types and their comparison.
- Implemenation of Relational Database.
- Physical database system and managing the database,enrollment and functions of Database administration control.
- Interaction to Structured Query Language using oracle and its uses.

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to

CO Number	CO Statement
CO1	To analyse Data Base design methodology.
CO2	Acquire knowledge in fundamentals of Data Base Management System.
CO3	Be able to analyse the difference between traditional file system and DBMS.
CO4	Able to handle with different Data Base languages.
CO5	Draw various data models for Data Base and Write queries mathematically.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER-III

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U3ACCP10	Course Title: Core 10: Oracle Practical	Batch	2020-2023
			Semester	III
Hrs/Week	4 Hrs		Credits	3

COURSE OUTCOMES :

On Successful Completion of the course, students should be able to understand about ,

CO Number	CO Statement
CO1	Brief knowledge about SQL Fundamentals.
CO2	Unary & Binary table operations.
CO3	Handle with different Data Base languages.
CO4	Table View, Log & Triggers.
CO5	Alter, Update, Manipulate the table content

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	-	✓	-	-	✓	-	-	-	-	-	-
CO3	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	-	✓	-	-	✓	-	-	-	-	-	-
CO5	-	-	✓	-	-	✓	-	-	-		-	✓

SEMESTER-III

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U3ACAT03	Course Title: Allied 3: Management Information Systems	Batch	2020-2023
			Semester	III
Hrs/Week	6Hrs		Credits	3

COURSE OBJECTIVES

The students will make to understand clearly about,

- Need for and implementation of Management Information system, structures and advantages of Management Information system
- Support of Management Information system for an organisation, Management Information system for specific functions and Database Management System Models
- Types of computers and computer software
- Input, output and secondary storage devices of a computer
- Uses of revolution in Telecommunication, e-commerce, Applications of Electronic Data Interchange in business and electronic payment

COURSE OUTCOMES(CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the need, structures and advantages of Management Information system
CO2	Elaborate the Support of Management Information system and Database Management System Models
CO3	Explain the types of computers and computer software
CO4	Explain about importance and usage of the input, output and storage devices
CO5	Elucidate the uses of e-applications software and e-payments in business

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	✓	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	-
CO4	-	-	✓	-	✓	✓	-	✓	-	✓	✓	-
CO5	-	✓	-	✓	✓	-	-	-	✓	-	-	✓

SEMESTER III

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	20U3SBST05	Skill Based Subject 5 : Mathematics for Competitive Examinations –III	Batch	2020-2023
			Semester	III
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students to know the concept of Pipes, Cistern and Probablity.
- To solve problem related to Problems on Boats and Streams .
- To make the students to know the concept of Alligation or mixture,Problem of Heights and distance,odd man out series.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Solve the problems on pipes and cistern.
CO2	Solve the problems on time and distance, train, boats and stream.
CO3	Apply the concept of Alligation , height & distance to solve certain types of problem.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	-	-	-	-
CO3	-	-	-	-	-	✓	-	-	-	-	-	-

SEMESTER-III

Programme code	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code:	**20U3SBST03**	**Skill based Subject 3: Communication Skills-III**	**Batch**	**2020-2023**
			Semester	**III**
Hrs/ Week	**2 Hrs**		**Credits**	**1**

COURSE OBJECTIVES

- To make the students to understand the barriers in their communication and the ways to overcome the same.
- To make the students to know various types of listening and the effect of enhancing the listeningskills**.**
- To encourage Group discussion and introduce to speak in different situations and the etiquette to bemaintained.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students Should be able to

CO Number	**CO Statement**
CO1	to communicate meaningfully and effectively with others
CO2	to explain various types of listining and be a careful listener
CO3	to deal with different kinds of situations by conversing effectively and maintaining the etiquette required for such situations

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	20U3BTLT01	Title : அடிப்படைத் தமிழ;	Batch	2020-2023
			Semester	III
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம் :

- ✓ தமிழ் எழுத்துக்களை எழுத, படிக்க தெரிந்து கொள்ளுதல்.
- ✓ சொற்களின் வகைகளைத் தெரிந்து கொள்ளுதல்.
- ✓ தொடர் அமைப்புகளைத் தெரிந்து கொள்ளுதல்.
- ✓ வாக்கியங்களைப் பிழையின்றி எழுதக் கற்றுக் கொள்ளுதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு – Course Outcome (CO)

CO Number	CO Statement
CO1	தமிழ் எழுத்துக்களைத் தெளிவாக எழுதுதல்.
CO2	சொற்கள் கொடுக்கப்பட்டால் அவைகள் எச்சொற்கள் என வகைகளைக் கூறுதல்.
CO3	ஒரு சொற்றொடரில் எழுவாய், செயப்படுபொருள், பயனிலை எவை என கண்டறிந்து கூறுதல்.
CO4	வாக்கியங்களைப் பிழையின்றி எழுதுதல்

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	–	–	-	-	–	-	-	-	–	-	–	–
CO2	-	-	-	-	–	–	–	-	✓	–	–	-
CO3	-	–	-	-	–	-	-	–	-	–	–	-
CO4	-	-	-	-	–	-	-	–	✓	-	–	-

SEMESTER III

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	20U3ATLT01	Non Credit Course 1: Basic Tamil-I Title : அடிப்படைத் தமிழ்	Batch	2020-2023
			Semester	III
Hrs/week	-		Credits	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்
நோக்கம்:

- ✓ மேல்நிலைக் கல்வியில் தமிழ் மொழி பயின்ற மாணவர்களுக்கு இளங்கலை பட்ட வகுப்பில் தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக் கூறுதல்.
- ✓ மரபுக் கவிதைகள், புதுக்கவிதைகள் வேறுபாடு பற்றி மாணவர்கள் அறியச் செய்தல்.
- ✓ சொற்களை உச்சரிக்கும் போது ஒலி வேறுபாடு அறிந்து வாக்கியங்களில் பிழை நீக்கி எழுதச் செய்தல்.
- ✓ பயன்பாட்டுத் தமிழில் கடிதங்கள் மற்றும் மடல்கள் எழுதுவதற்குப் பயிற்சியளித்தல்.
- ✓ பாடப்பகுதியோடு இணைந்த இலக்கிய வரலாற்றுச் செய்திகளை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மரபுக்கவிதை, புதுக்கவிதைகளுக்கு இடையில் உள்ள வேறுபாடுகள் அறிதல்.
CO2	மொழித்திறன் பயிற்சியின் மூலம், மாணவர்கள் பிழைநீக்கி எழுதுதல்.
CO3	இன்றைய சூழலுக்கு ஏற்ப, விண்ணப்பங்கள், மடல்கள் மற்றும் கடிதங்கள் எழுதச்செய்தல்
CO4	இலக்கியங்களின் வாயிலாக படைப்புகளின் வரலாறுகள், நோக்கம் உணர்தல்.
CO5	சொற்களைக் கொண்டு வாக்கியங்கள் அமைப்பதற்குப் பயிற்சி எடுத்தல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	-	-
CO2	✓	-	-	-	-	-	-	-	-	-	-	-
CO3	✓	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	✓	-	-	-
CO5	-	-	-	-	-	-	-	-	-	✓	-	-

SEMESTER - III

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U3SSCT01	Non Credit Course 1: Advanced Tamil -I Title : சிறப்புத் தமிழ்	Batch	2020 – 2023
			Semester	3
Hrs/ Week	-		Credits	1

நோக்கம்

- ✓ மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
- ✓ இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
- ✓ மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
- ✓ நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்து கொள்ளச் செய்தல்.
- ✓ காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER – III

Programme Code :	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	20U3SSCT1A	Self Study Course1:Manitha Vazhklayum Gandhiadigalum** Self Study Course 1: மனித வாழ்க்கையும் காந்தியடிகளும்மூழு	Batch	2020-2023
			Semester	III
Hrs/week	-		Credit	1

நோக்கம்

1. மானிட வாழ்வில் பின்பற்ற வேண்டிய நடைமுறைச் செயல்பாடுகளை உணர்த்துதல்.
2. இன்றைய நவீன வாழ்க்கைச் சூழலில் ஏற்படும் சிக்கல்கள், பிரச்சனைகளை காந்திய தீர்வுகளை அறியச் செய்தல்.
3. மகாத்மாவின் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றிய கருத்துக்களை கற்று உணர்தல்.
4. நடைமுறை வாழ்வில் அகிம்சையைப் பின்பற்றுவதால் ஏற்படும் நன்மைகளைப் புரிந்துகொள்ளச் செய்தல்.
5. காந்தியடிகள் இந்திய விடுதலைக்காகப் பின்பற்றிய கொள்கைகளை மாணவர்கள் கற்று அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	மானிட பிறப்பின் நோக்கம், வாழ்க்கை இரகசியம், தன்னலம் இல்லா வாழ்க்கை, இல்வாழ்க்கையின் சிறப்பு, உடலைப் பாதுகாத்தல் ஆகியவற்றை புரிந்து கொள்ளல்.
CO2	வாய்மையினால் இணைந்த மெய்யறிவு, இயற்கையுடன் இணைந்த மெய்யறிவு, சத்தியாகிரகிகளாக ஆத்ம சக்தியுடன் வாழ்ந்த பெரியோர்களின் வாழ்வை உணர்ந்துஅவர்கள் வழியில் வாழ முயற்சித்தல்.
CO3	குாந்தியடிகள் வாழ்க்கை மூலம் கல்வி, இல்லறம், பெற்றோரைப் பேணல், தியாகம், இயற்கை வாழ்வு, செல்வம், உண்மை, அஞ்சாமை மாணவர்கள் அறிதல்.
CO4	இயற்கையின் நோக்கம், அகிம்சையை பின்பற்றுதல், ஊன் உண்ணாமை, தீண்டாமை, சுயராஜ்யத்தின் தன்மைகள், மக்களின் வாழ்க்கையில் சுதேசியம், சுதேசிய உரிமை, காந்தியடிகளின் வாழ்க்கை மூலம் மாணவர்கள் அறிதல்.
CO5	சத்தியாகிரகம் விளக்கம், காந்தியும் சத்தியாகிரகமும், காந்தியும் தென்னாப்பிரிக்கப் பயணம், ரௌலட் சட்டம், காந்தியின் சிறை வாழ்வு, சமய வாழ்வு, சமரச சன்மார்கம், சமரச வாழ்வின் பயன் போன்றவற்றை மாணவர்கள் அறிதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	-	✓

SEMESTER-III

Programme Code :	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U3SSCT1B	Self study Course – 1 இந்திய விடுதலைப் போரில் வ.உ.சி	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

1. 1. வ.உ.சி யின் இளமைப் பருவம், கல்வி, தொழில், வாழ்க்கை முறை பற்றி மாணவர்கள் அறிதல்.
2. சுதேசி கப்பல் கம்பெனி தொடங்கியதன் நோக்கம், முக்கியத்துவத்தை அறிதல்.
3. வ.உ.சி சிறைச் சாலைகளில் அனுபவித்த இன்னல்களையும், தன்னலமற்ற பொது வாழ்க்கைக்காக அவர் செய்த தியாக உணர்வை அறிதல்.
4. வ.உ.சி யின் தமிழ்ப்பற்று, தமிழுக்கு வ.உ.சியின் பங்களிப்பை மாணவர்களை உணரச் செய்தல்.
5. விடுதலைப் போராட்டத்தில் வ.உ.சி, அவரது காலத்தில் சிறைக் கைதிகளின் நிலை, செட்டி நாட்டுச் சொற்பொழிவுகள் பற்றி மாணவர்களை அறியச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	வ.உ.சி யின் விடுதலை உணர்வு இளமையிலேயே வேரூன்றியது என்பதை அவரது இளமைக் கால வாழ்க்கை மற்றும் செயல்பாடுகளின் மூலம் மாணவர்களை உணரச் செய்தல்.
CO2	சுதேசி கப்பல் கம்பெனி தொடங்குவதற்கு, ஏற்பட்ட தடைகள், முயற்சிகளில் வெற்றி பெறுதல், நாட்டுப் பற்றினையும் உரிமைக்காக போராடும் பண்புகளையும் மாணவர்கள் அறியந்து கொள்ளுதல்.
CO3	வ.உ.சி யின் சிறை வாழ்க்கை, ஆங்கிலேயரை எதிர்த்து நடத்திய போராட்டம், விடுதலை போராட்டத்திற்கு ஆற்றிய பணிகளை மாணவர்கள் அறிதல்.
CO4	தமிழ் மொழியின் மீது வ.உ.சி யின் பற்று, மொழிக்காக அவரது செயல்பாடு, தேசப்பற்று குறித்து மாணவர்கள் அறிந்து கொள்ளல்.
CO5	வ.உ.சி யின் சமயக் கொள்கை, பெண்கள் மீதான வ.உ.சி யின் பார்வை, இறுதிகாலச் சொற்பொழிவுகள் பற்றி மாணவர்கள் உணர்ந்து கொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER-III

Programme Code :	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U3SSCT01	Self study Course – 1 நேதாஜியின் வீர வரலாறு	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

1. நேதாஜியின் பிறப்பு, படிப்பு, வாழ்வு பற்றி மாணவர்களை அறியச் செய்தல்.
2. நேதாஜியின் அரசியல் பயணம், புரட்சி பயணம் குறித்து மாணவர்களை அறியச் செய்தல்.
3. சுதந்திர இந்திய மையம், கொடி, சின்னம், இந்திய இரானுவத் தோற்றம் குறித்து மாணவர்களைஉணரச் செய்தல்.
4. காந்தியுடன் நேதாஜியின் நட்புறவு, கிழக்காசிய நாடுகளில் நேதாஜியின் செயல்பாடு பற்றி மாணவர்களுக்கு உணர்த்துதல்.
5. நேதாஜியின் போர் பிரகடனம், யுத்தத் தயாரிப்புகள் கடைசிப் பயணம் குறித்து மாணவர்களுக்கு உணர்த்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	நேதாஜியின் இளமைக்கால வாழ்வு, புரட்சித் தொடக்கம், அரசியல் பணி, சமூகத்தின் மீதான பற்றினை மாணவர்களிடம் வளர்த்தல்.
CO2	நேதாஜியின் சிந்தனை, அவரது புரட்சிப் பயணம் அதற்கானத் திட்டம் பற்றி மாணவர்களை அறியச் செய்தல்.
CO3	இந்தியாவின் மீது நேதாஜியின் பற்று, சுதந்திரத்தில் நேதாஜியின் பங்கு, கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை உணரச் செய்தல்.
CO4	இளைஞர்களுக்கு இந்தியா மீது பற்றினை ஏற்படுத்துதல், இந்திய தேசிய இராணுவம் உருவாக்கம், கிழக்காசிய நாடுகளை இணைத்தல் பற்றி மாணவர்களை அறியச் செய்தல்.
CO5	நேதாஜியின் எதிர்கால வேலைத்திட்டம், போர் முயற்சி, கடைசிப் பயணம், விடை தெரியாத நேதாஜியின் இறுதி நாட்கள் பற்றி மாணவர்களை அறியச் செய்தல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	BBA(CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U3SSCT1D	Self study Course –1 அக்னிச் சிறகுகள	Batch	2020 – 2023
			Semester	III
Hrs/ Week	-		Credit	1

நோக்கம்

1. அப்துல் கலாம் வாழ்க்கை முறை, கல்வி, வாழ்வு பற்றி மாணவர்கள் கற்று உணரச்செய்தல்.
2. வாழ்க்கைத் தத்துவங்களை கலாமின் வாழ்வைக்கொண்டு மாணவர்களை உணரச்செய்தல்.
3. இளைஞர்களுக்கு ஏற்படக்கூடிய சவால்களை எதிர்நோக்கும் தன்மைகளை வளர்த்தல் மேலும் தேசப்பற்றை வளர்த்தல்
4. இலக்கு பற்றிய கனவும் விடாமுயற்சியும் வாழ்வை மேம்படுத்தும் என்பதை கலாம் வாழ்க்கை வழி மாணவர்கள் அறியச் செய்தல்
5. ஏவுகணைகள், ஏவுதளம் குறித்த அடிப்படை புரிதல்களை மாணவர்களிடம் ஏற்படுத்துதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	குடும்ப எறவுகளின் பலம் நம்மை நல்வழிப்படுத்தி வெற்றிப்பாதையில் ஏற்றும் ஏணி என்பதை மாணவர்களிடம் உணர்த்துதல்.
CO2	இலக்கைப் பற்றிய எண்ணமும் செயல்பாடும் தெளிவாய் இருந்தால் வெற்றி நிச்சயம் என்பதை மாணவர்களை உணரச்செய்தல்.
CO3	இளைஞர்களுக்குரிய சவால்கள் அதை முயற்சியால் எதிர்கொண்டு வெற்றிபெறும் வழியை அறிதல் தேசத்தின் மீது பற்றினை ஏற்படுத்துதல், தன்னலமற்ற பொதுசேவை நாட்டை உணர்த்தும் என்பதை மாணவர்களைச் அறியச் செய்தல்.
CO4	ஏவுகணை செயல்படும் விதம், ஏவுதள அமைப்பு பற்றிய அடிப்படை தொழில் நுட்பத் திறனை மாணவர்களிடம் ஏற்படுத்துதல்.
CO5	விடாமுயற்சியும், தோல்வி கண்டு துவலாத மனமும் ஒருவனை தலைசிறந்த பண்பாளனாக்கும் என்பதை மாணவர்களுக்கு உணர்த்துதல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	ALL UG	Programme Title		
Course Code:	20U3SSCT1E	Self study Course – I ஈ.வெ.ரா பெரியார் வாழ்வும் பணியும்	Batch	2020 – 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

- பெரியாரின் இளமைப் பருவம், சமுதாயத்தில் நிலவிய பாகுபாடுகளை கண்டுணர்ந்த விதம் பற்றி அறிதல்.
- நீதிக் கட்சியின் தோற்றம், அரசியல் ஈடுபாடு, சுயமரியாதை மூலம் பெரியாரின் கொள்கைகளைப் பற்றி அறிதல்.
- அரசியல், சமுதாயம் சார்ந்த போராட்டங்களில் ஈடுபடுதல், மாநாடுகளில் கலந்துகொள்ளுதல், போன்ற செயல்பாடுகளின் மூலம் அவரது கொள்கை நிலைப்பாட்டினை பற்றி அறிதல்.
- பெண்கள் உரிமைக்காக பெரியார் ஆற்றிய பணிகள், அவருடைய பகுத்தறிவுச் சிந்தனைகள் பற்றி அறிதல்.
- சமதர்மம், கடவுள் மறுப்பு, பெரியாரின் சமயக் கொள்கைகளுக்காக இறுதி வரை பெரியார் நடத்திய போராட்டங்கள் பற்றி அறிதல்

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	பெரியாரின் இளமைப் பருவத்தில், நடந்த நிகழ்வுகளின் மூலம் சமுதாயத்தில் நிலவிய பாகுபாடுகளை மாணவர்கள் அறிந்துகொள்ளல்.
CO2	பெரியாரின் கொள்கைகள் மற்றும் சுயமரியாதை இயக்கம் பற்றி கருத்துக்கள் மூலம் மாணவர்களிடம் விழிப்புணர்வை ஏற்படுத்துதல்.
CO3	அரசியல் அணுகுமுறை, சமுதாயம் பற்றிய செய்திகளை பெரியாரின் கருத்துக்கள் வழி மாணவர்கள் அறிந்து கொள்ளுதல்.
CO4	பெண்களின் முக்கியத்துவம் பற்றியும், மூடநம்பிக்கைகள், புராணங்கள் பற்றிய செய்திகளை பகுத்தறிவு வழி ஆராயும் நிலையை மாணவர்கள் அறிந்து கொள்ளுதல்.
CO5	பெரியாரின் சமயம், சமதர்மம், கடவுள் மறுப்பு கொள்கைகளுக்காக நடத்திய போராட்டங்கள், சமுதாயத்தில் பெரியாரின் தாக்கம் பற்றி மாணவர்கள் அறிந்து கொள்ளுதல்

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER - III

Programme Code :	ALL UG	Programme Title		
Course Code:	20U3SSCT1F	Self study Course – I காமராசர் ஓர் வழிகாட்டி	Batch	2020 – 2023
			Semester	3
Hrs/ Week	-		Credits	2

நோக்கம்

- காமராசரின் இளமைக் காலம், காங்கிரஸில் உறுப்பினராதல், ஆரம்ப கால அரசியல் பங்களிப்பு பற்றி அறிதல்.
- காங்கிரஸில் இராஜாஜி- காமராசருக்கு இடையில் ஏற்பட்ட கருத்து வேறுபாடு, திராவிட கட்சிகள் தோன்றுதல் பற்றி அறிதல்.
- உலகின் சன நாயக நாட்டின் அமெரிக்கா, இங்கிலாந்து தேர்தல் முறைகளை அறிதல், காங்கிரஸ் கட்சியை வலுப்படுத்தும் காமராசரின் திட்டத்தின் நோக்கத்தை அறிதல்.
- காங்கிரஸ் கட்சியின் ஐம்பது ஆண்டு காலச் சரித்திரம், உட்கட்சிப் பூசல், காமராசரின் வெளிநாட்டுப் பயணம், தலைவர்களை தேர்ந்தெடுத்தலில் காமராசரின் பங்களிப்பினை பற்றி அறிதல்.
- திராவிட கட்சிகளின் போக்கு, பெரியார்-அண்ணா இவர்களுக்கு இடையேயான கருத்து வேறுபாடு, தமிழகத்தில் பெருந்தலைவராக, மேதையாகத் திகழ்ந்த காமராசரின் வாழ்வு, அவரது அரசில் அமைச்சரவை பங்களிப்பு பற்றி அறிதல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு - Course Outcome (CO)

CO Number	CO Statement
CO1	காமராசரின் இளமைக் காலச் சிந்தனைகள், காங்கிரஸ் கட்சிப் பயணம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO2	காங்கிரஸில் மூத்த தலைவர்களுடனான காமராசரின் நட்பு மற்றும் கருத்து வேறுபாடுகள், முதல்வராக காமராசரின் பணிகள், கல்வியில் காமராசரின் புரட்சி, திராவிட கட்சியின் உதயம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO3	உலக அரசியல் பற்றிய காமராசரின் புரிதல், காங்கிரஸ் கட்சியின் வளர்ச்சிக்காகவும் மக்களின் நலனுக்காகவும் காமராசரின் திட்டம் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO4	காங்கிரஸில் காமராசரின் அரசியல் பணி, அவரது வெளிநாட்டுப் பயணங்கள், தேசிய அளவில் காமராசரின் செல்வாக்குப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.
CO5	திராவிடக் கட்சிகளுக்கும் காமராசருக்குமான நிலைப்பாடு, தமிழகத்தில் பெருந்தலைவராக காமராசரின் பணிகள், மேதையாக வாழ்ந்ததைப் பற்றி மாணவர்கள் அறிந்துகொள்ளல்.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	✓	-
CO2	-	-	-	-	-	-	-	-	-	✓	✓	-
CO3	-	-	-	-	-	-	-	✓	-	-	✓	-
CO4	-	-	-	-	-	-	-	✓	-	-	✓	-
CO 5	✓	-	-	-	-	-	-	✓	-	-	✓	-

SEMESTER IV

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U4ACCT11	Course Title: Core 11: Cost And Management Accounting	Batch	2020-2023
			Semester	IV
Hrs/Week	6Hrs		Credits	4

COURSE OBJECTIVES

To make the students to understand clearly

- Meaning and concept of cost and management accounting and method of preparation of cost sheet.
- Calculation of EOQ, Methods of pricing of materials and fixing the Labour cost.
- Variance analysis, cost volume profit analysis for finding standard costing.
- Financial statement analysis and Ratio Analysis.
- Funds flow and cash flow analysis.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain about the cost and management accounting and prepare a cost sheet from the given information
CO2	Calculate and evaluate the Stock Levels and Pricing of Material Issues.
CO3	Apply variance analysis and cost volume profit analysis for finding standard cost and marginal cost
CO4	Prepare a financial statement and find liquidity, profitability and solvency from analysing a various ratios.
CO5	Prepare Fund flow and cash flow statements from the given information.

MAPPING WITH PROGRAMME OUTCOMES

Co/Po	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓

SEMESTER IV

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U4ACCT12	Course Title: Core 12: Business Environment	Batch	2020-2023
			Semester	IV
Hrs/Week	6Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Environment and the types of environment in which business operates.
- Legal environment like legal system, laws related to business and patents.
- The economic system and economy types affecting the business environment.
- Impact of various culture and cultural factors in a business
- Cultural environment like language, aesthetics, religious, altitudes and values.
- The influence of technology and the latest developments of technology in a business

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Environment and the types of environment in which business operates
CO2	Explain the legal environment like legal system, laws related to business and patents
CO3	Elucidate the economic system and economy types affecting the business environment
CO4	Describe the Impact of various culture and cultural factors in a business
CO5	Explain the influence of technology and the latest developments of technology in a business

MAPPING WITH PROGRAMME OUTCOMES

Co/Po	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	-	-	-	-	-	√	-	√	-	-
CO2	-	√	-	-	-	-	-	√	-	√	√	-
CO3	-	√	√	√	-	-	√	-	√	-	√	-
CO4	-	√	-	√	-	√	√	√	-	-	√	-

SEMESTER IV

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U4ACCT13	Course Title : Core 13: Internet And Web Designing	Batch	2019-2022
			Semester	IV
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

The students will be able to know about

- The basics of Internet
- Working with e-mail
- HTML and its application in designing a web page
- DHTML and its application in designing a Dynamic Web page

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the basics of Internet
CO2	Create, send and receive an e-mail
CO3	Use HTML and design an impressive Web page
CO4	Explain how to design a dynamic web page using DHTML

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	-	✓	-	✓	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	✓

SEMESTER IV

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U4ACCP14	Course Title : Core 14: Internet and Web Designing-Practical	Batch	2019-2022
			Semester	IV
Hrs/week	5 Hrs		Credits	3

COURSE OBJECTIVES

The students will be able to

- How to gather required information using Internet
- Knowing how to create a new e-mail id, send an e-mail to an individual or a group of individuals at the same time
- Send an e-mail with attachment
- Developing a web page using HTML

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Gather information about any particular topic or problem or incident given
CO2	Create an e-mail id send e-mail to an individual or group of individuals at a time
CO3	Send an e-mail with attachments
CO4	Develop an impressive web page using HTML

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	✓	-	✓	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	✓
CO5	✓	-	✓	✓	✓	✓	-	-	✓	-	✓	✓

SEMESTER IV

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U4ACAT04	Course Title: Allied 4: Business Law	Batch	2020-2023
			Semester	IV
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

The students will understand clearly about,

- Various types of contracts
- Legal rules relating to contracts
- Agreements, breach of contract and remedies provided and hire purchase agreement
- Current laws, rules and regulations related to settling of business disputes
- Classification of agents, the relationship with the principal, delegation of authority and liability of agent

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the various types of contracts
CO2	Determine the unlawful and illegal agreements relating to contracts
CO3	Describe the situations on breach of contract and its remedies
CO4	Elaborate the Current laws, rules and regulations related to settling of business disputes
CO5	Explain the creation and termination of agency

MAPPING WITH PROGRAMME OUTCOMES

Co/Po	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	✓	✓	✓	✓	-	-	-	-	-
CO2	-	✓	-	-	-	-	-	-	-	-	-	-
CO3	-		-	-	-	-	-	-	-	-	-	-
CO4	✓	✓	-	✓	✓	-	-	✓	✓	✓	-	✓
CO5	✓	-	✓	✓	✓	✓	-	-	-	-	✓	✓

SEMESTER IV

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code :	20U4SBST07	Skill Based Subject 7 : Mathematics For Competitive Examinations -IV	Batch	2020-2023
			Semester	IV
Hrs/week	2 Hrs		Credits	1

COURSE OBJECTIVES

- To make the students to know the methods of solving Problems of Interest and Venn Diagrams.
- To solve problems related to on Sequence and series.
- To develop the skills in solving problems for checking ones Mental Ability and Logical reasoning.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explicate the concept of finance and discover the inference using Venn-diagram.
CO2	Solve the problems on logarithms,area,Volume, Sequence and series.
CO3	Find solution to the problems on Tabulation, graphs and puzzles.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	✓	-	-	-	✓	-	-
CO2	✓	-	-	-	-	✓	-	-	-	✓	-	-
CO3	✓	-	-	-	-	✓	-	-	-	✓	-	-

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code :	**20U4BTLT02**	**Non Credit Course 2 : Basic Tamil-II Title : அடிப்படைத் தமிழ்**	**Batch Semester**	**2020-2023 IV**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்

நோக்கம்:

- ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களில் கூறப்பட்டுள்ள நீதிகளைத் தெரிந்து கொள்ளுதல்.
- தடையில்லாமல், பிழையில்லாமல் படிப்பதற்கு எளிமையான கதைகளைப் படித்துப் பழகுதல்.
- தமிழ் இலக்கியங்களின் வரலாறு மற்றும் சிறப்புகளை அறிந்து கொள்ளச்செய்தல்.
- தமிழக மக்களின் வாழ்க்கை முறை உணவுமுறை, கலாச்சாரம், பண்பாடு பற்றி அறிந்துகொள்ளச் செய்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	**CO Statement**
CO1	ஆத்திச்சூடி, கொன்றை வேந்தன், திருக்குறள் போன்ற நூல்களின் வழி அக்கால மக்கள் பின்பற்றிய நீதிகளை அறிந்து அதன்படி வாழ்தல்.
CO2	எளிமையான நூல்களைப் படிப்பதன் மூலம், பிழையில்லாமல், தெளிவான உச்சரிப்போடு கதைகளைப் படித்துப் பழகுதல்.
CO3	தமிழ் இலக்கியங்களின் வரலாறு மற்றும் அதன் சிறப்புகளை அறிந்து கொள்ளுதல்.
CO4	பழங்கால மக்களின் வாழ்க்கை முறை, பண்பாடு, கலாச்சாரம் ஆகியவற்றை அறிந்து கொள்ளுதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	-	-	-	✓	-	-	-	-	-	-	-
CO2	-	-	-	-	-	✓	-	-	✓	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	✓	-
CO4	✓	-	✓	-	-	-	-	-	-	-	-	-

SEMESTER IV

Programme Code :	12-ம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code :	**20U4ATLT02**	**Advanced Tamil-II # Title : சிறப்புத் தமிழ்**	**Batch**	**2020-2023**
			Semester	**IV**
Hrs/week	-		**Credits**	-

அகமதிப்பீட்டுத் தேர்வு மட்டும்
நோக்கம்:

- இளங்கலை பட்ட வகுப்பில் தமிழ் - பயிலாதவர்களுக்கு, தமிழ் இலக்கியத்தின் சிறப்பினை எடுத்துக்கூறுதல்.
- திருக்குறளின் சிறப்பை அறியச் செய்தல்.
- சொற்களைப் பயன்படுத்தும் முறைகளையும், வாக்கியப் பிழைகள் ஏற்படுவதைத் தவிர்க்கும் முறைகளையும் அறியச் செய்தல்.
- பேச்சு வழக்குகளில் நாம் பயன்படுத்தும் சொற்களையும், சொற்களில் உள்ள பிழைகளையும், சரியாகப் பயன்படுத்தும் சொற்களையும் தெரிந்து கொள்ளச் செய்தல்.
- மாணவர்களின் கற்பனைத்திறன், படைப்பாற்றல் திறமை மேம்படுத்த பயிற்சி அளித்தல்.

பாடப்பகுதி கற்றலின் வெளிப்பாடு (Course Outcome)

CO Number	CO Statement
CO1	தமிழ் இலக்கியங்களின் சிறப்பினை உணரச் செய்தல்
CO2	திருக்குறளின் வாயிலாக மக்களின் வாழ்க்கைமுறைகளை அறிதல்
CO3	வாக்கியங்களை பிழையில்லாமல் சரியான முறையில் எழுதுதல்.
CO4	பேச்சு வழக்கில் நாம் பேசும் போது ஏற்படும் மரபு பிழைகளைத் தவிர்த்தல் மற்றும் தகுதியான வழக்குச் சொற்களைப் பயன்படுத்துதல்.
CO5	திறமையான மாணவர்களை ஊக்குவித்து படைப்பாளர்களாக, கவிஞர்களாக உருவாக்குதல்.

நிரல் விளைவுகளைக் கொண்ட வரைபடம்

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	✓	-	-	-	✓	-	✓	✓
CO2	-	-	-	-	✓	-	-	-	-	-	-	-
CO3	-	-	-	-	✓	-	-	-	-	-	-	-
CO4	-	-	-	-	✓	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	✓	-	✓	✓	-	-

SEMESTER- IV

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U4SSCT02	Self Study Course 2 : Women's Rights	Batch	2020-2023
			Semester	IV
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

- To make the women students understand the legal systems, constitutional frame work and human rights in India.
- To understand and appreciate the women's claims to land and their right to property.
- To make the women students to know fully about the laws enacted to protect women against violence, harassement sexual abuse and the loopholes in practice.
- To give a knowledge to the students about the various acts enacted relating to marriage validation, Hindu widow re- marriage, dowry prohibition, imortal traffic prevention, and women development and empowerment.

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Explain clearly about the legal systems costitutional frame work and human rights.
CO2	Tell about their claims to land and right to property.
CO3	To explain about the various laws and acts enacted for protection of women from various kinds of violence and abuse, and for validating their marriage
CO4	Explain various acts available for women development and empowerment.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO2	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO3	-	-	-	-	-	✓	-	-	-	-	✓	✓
CO4	-	-	-	-	-	✓	-	-	-	-	✓	✓

SEMESTER – IV

Programme Code:	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
CourseCode:	20U4SSCT02	Study Course 2:An Introduction to Constitution of India**	Batch	2020-2023
			Semester	IV
Hours/ Week	-		Credits	1

COURSE OBJECTIVES:

- To imparting knowledge of the history of constitutional development in India.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Impart a comprehensive outlook about the nature of the Indian Constitution, right and duties of the citizens, political institutions of Central and State Governments and its relationship with each other and local government.
CO2	For understand the basis and growth of constitutional government of India since independence.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code:	**20U4SSCT02**	**Self Study Course 2: Human Rights****	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To prepare for responsible citizenship with awareness of the relationship between Human Rights, democracy and development.
- To impart education on national and international regime on Human Rights.
- To sensitive students to human suffering and promotion of human life with dignity.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Develop skills on human rights advocacy.
CO2	Appreciate the relationship between rights and duties.
CO3	Foster respect for tolerance and compassion for all living creature.
CO4	Create awareness about the significance of Human Rights as an academic discipline and it's utility in enhancing the quality of human lives.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER – IV

Programme Code:	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code:	**20U4SSCT02**	**Self Study Course 2: CONSUMER AFFAIRS***	**Batch**	**2020-2023**
			Semester	**IV**
Hours/ Week	**-**		**Credits**	**1**

COURSE OBJECTIVES:

- To familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOMES (CO):

On Successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards.
CO2	comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

MAPPING WITH PROGRAMME OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-

SEMESTER V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACCT15	Course Title: Core 15: Human Resource Management	Batch	2019-2022
			Semester	V
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students will understood the

- Functions of HR/Personnel Department.
- Salary administration, Labour Welfare, Industrial Relations.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understanding the HRM theory, functions and practices.
CO2	Apply the HRM concepts and skills across various types of organizations
CO3	Understanding the Recruitment process
CO4	Understanding the on performance appraisal and training and development
CO5	Educate the process of handling disputes, laws pertaining to Employees welfare and employment in the Organization.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	✓	-	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	✓	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓

SEMESTER- V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACCT16	Course Title: Core 16: Research Methodology	Batch	2020-2023
			Semester	V
Hrs/Week	5Hrs		Credits	4

COURSE OBJECTIVES

To make the students understand clearly about,

- Various types of research, defining a problem setting objectives and hypothesis of the research on the preparation of research design.
- Various methods of data collection, reliability and validity of the data collection and classification, tabulation of data.
- Understand about the measurement and scaling technique, determination of sample size and various sampling methods and their applications.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the various types of research, selection and formulation of the research problem setting objectives and formulating hypothesis
CO2	Explain various methods of data collection and explain how to test the reliability validity and collect the data.
CO3	Explain about the various measuring and scaling techniques, sampling methods and the types of population for which they can be applied.
CO4	Apply various types of data collection methods and Simple problems in Non-Parametric Testing.
CO5	Apply various techniques of interpretations and using types of report writing

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	-
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	-	✓	✓	-	-	-	✓	✓	✓	-	-	-

SEMESTER V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACCT17	Course Title: Core 17: Visual Basic	Batch	2020-2023
			Semester	V
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVE

:To make the students to know clearly about

- front end tool for Customer Interaction in Business.
- Visual Basic Tool Box.
- Data and Variables and control flow statements.
- Menu Editor and Common Dialog control
- Database connecting tools and updating a database file

COURSE OUTCOME

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understanding Graphical User Interface and Event-driven Programming, Properties
CO2	Concept of Windows Forms, common controls, design-view, code view, class diagram view.
CO3	Understand the concept of Control Structures, elementary data structures, and collection classes
CO4	To Know the procedures, sub-procedures, and functions to create manageable code.
CO5	Understanding Database connectivity.

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER V

Programme code	**BBA CA**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U5ACCP18**	**Course Title : Core 18: Visual Basic – Practical**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**5 Hrs**		**Credits**	**3**

COURSE OUTCOMES :

On successful completion of the course, students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Design, create, build, and debug Visual Basic applications.
CO2	Apply arithmetic operations for displaying numeric output.
CO3	Apply decision & loop structures for determining different operations.
CO4	Create one and two dimensional arrays for sorting, calculating, and displaying of data.
CO5	Write and apply procedures, sub-procedures, and functions to create manageable code.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-		-	-	-	-	-	✓
CO4	-	✓	-	-	-		-	-	-	-	-	✓
CO5	-	✓	-	-	-		-	-	-	-	-	✓

SEMESTER-V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACET1A	Course Title: Elective 1: Services Marketing	Batch	2020-2023
			Semester	V
Hrs/Week	5 Hrs		Credits	2

COURSE OBJECTIVES

- To know the value of intangible services embedded onto their products.
- To know the significance of services in every organization.
- To Understand the role of service providers in day to day business operations

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the impact of service sector in Indian Economy
CO2	Understand the importance of services in marketing field
CO3	Design service quality measurements to build customer loyalty
CO4	Elucidate the perspective of service from various sectors
CO5	Explain service blueprinting, the integration of new technologies and other key issues

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	✓	-	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	✓	-	-	✓	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	-	✓	✓	-
CO5	✓	✓	-	✓	-	-	-	-	✓	-	✓	✓

SEMESTER-V

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U5ACET1B**	**Course Title: Elective 1: Indian Business System**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/Week	**5 Hrs**		**Credits**	**2**

COURSE OBJECTIVES

On successful completion of this syllabi the students will

- Understand the basic concepts in commerce, trade and industry.
- Understand modern business practices, forms, procedures and functioning of various business organizations.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	**CO Statement**
CO1	Define the concept of commerce and understand the trends in business national, multi-national
CO2	Understand the nature and purpose of different types of organizations
CO3	Interpret the various formation of business
CO4	Analyse opportunities to start the new business and utilize the trade services to the enterprise

MAPPING WITH PROGRAMME OUTCOMES

CO /PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	✓	✓	✓	-	✓	-	✓	-	-	✓
CO2	-	✓	-	✓	✓	-	-	✓	-	-	✓	-
CO3	✓	-	-	-	✓	✓	-	-	✓	-	-	✓
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-

SEMESTER-V

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U5ACET1C**	**Course Title: Elective 1: Mall Management**	**Batch**	2020-2023
			Semester	V
Hrs/Week	**5 Hrs**		**Credits**	2

COURSE OBJECTIVES

On successful completion of this syllabi the students will

- Understand concepts of malls and maintenance management concepts
- Develop knowledge and understanding of the strategic management of corporate real estate.
- Facilitate and propagate practices and processes that will augment the growth of mall shopping

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	**CO Statement**
CO1	Evaluate the maintenance needs, develop and execute maintenance plan for individual shopping malls.
CO2	Synergize marketing initiatives of the malls industry.
CO3	Allows the smooth movement of shoppers in the mall, avoiding clusters and bottlenecks.
CO4	Assists in formulating the right tenant mix and the placement of these tenants within the mall

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	-	✓	✓	-	✓	-	✓	-	-	✓
CO2	-	✓	-	✓	✓	-	-	✓	-	-	✓	-
CO3	✓	-	✓	-	✓	✓	-	-	✓	-	-	✓
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-

SEMESTER V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U5ACET2A	Course Title: Elective 2: Retail Marketing	Batch	2020-2023
			Semester	V
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of the syllabi, the students will understood

- The concepts of effective retailing
- Management of the retail chains and understand the retail customer's behaviour

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Know the recent and global trends in retailing
CO2	Elaborate the retail formats used in various sectors
CO3	Understand the retail supply chain management and pricing decisions
CO4	Possess the knowledge of various retail formats and will be understand the retail customer

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	✓	-	-	✓	-	✓	✓	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	-	
CO4	-	-	✓	-	✓	✓	-	✓	✓	✓	✓	-
CO5	✓	✓	-	✓	-	-	-	-	✓	-	-	

SEMESTER V

Programme code	BBA CA	Programme Title	Bachelor of Business Administration (CA)	
Course code:	20U5ACET2B	Course Title : Elective 2: Financial Markets	Batch	2020-2023
			Semester	V
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should have understood

- To describe the role and structure of the financial system
- To explain key concepts such as financial claim, financial intermediation and financial markets

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Elucidate the organization of financial markets
CO2	Understand the issues faced by the markets
CO3	Discuss the functions of secondary markets
CO4	Discuss the role of banks in financing
CO5	Understand the concepts of financing, venture capital and securities

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	-	-	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	✓	-	-	✓	-	✓	
CO4	-	✓	✓	-	✓	-	✓	✓	-	✓	-	-
CO5	✓	✓	-	✓	-	-	-	-	✓	-	✓	✓

SEMESTER - V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACET2C	Course Title: Elective 2: Management ofMicro Finance	Batch	2020-2023
			Semester	V
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should have understood

- To analyses the operating system of Micro finance for mobilization of saving.
- To understand the delivery of credit to the needy, management of group funds.
- To Establish the linkage with banks and examine the social benefits derived by the members

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the manner in which micro finance helps to expand the local micro business
CO2	Understand the effects and value of individual micro loans to business
CO3	Knowledge about the benefits and controversies of micro finance in modern economics
CO4	Understand the financial and non-financial products & services related to business
CO5	Understand the revenue models of micro finance, risk management, banking basics

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	✓	-	-	✓	-	-	✓	-	-	-	-
CO3	-	-	✓	-	-	✓	-	-	-	-	✓	
CO4	-	-	-	-	✓	-	✓	-	✓	✓	✓	-
CO5	✓	✓	✓	✓	-	-	-	-	✓	-	-	

SEMESTER-V

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code :	**20U5NCCT01**	**Non Credit Course 1 : Aptitude and Soft Skills I**	**Batch**	**2020-2023**
			Semester	**V**
Hrs/week	**3 Hours**		**Credits**	**-**

COURSE OBJECTIVES

To enable the Students

- To acquire inter personal skills, problem solving skills and be an effective goal oriented teamplayer.
- To equip the students with the required soft skills that would instill confidence and courage in them, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOME (CO)

On successful completion of the course, students should be able to

CO NO	CO Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing , elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

SEMESTER-V

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course Code:	20U5SSCT03	Self Study Course III: General Awareness	Batch	2020-2023
			Semester	V
Hrs/ Week	-		Credits	1

COURSE OBJECTIVES

- It aims at testing the candidates' general awareness and knowledge of current affairs occurring around the world and in India.
- Develops a commitment to citizenship, through the ability to make informed decisions about public issues.
- Create an awareness of the achievements and perspectives of people of different nations and cultures, and of different races, genders and ethnicities.

COURSE OUTCOMES (CO)

On Successful Completion of the course the students will be able to:

CO Number	CO Statement
CO1	Get familiar with general awareness of the environment around him and its apply it to the society.
CO2	Reason logically, abstractly and understand numerical data comprehend arguments and positions that depend on numbers and statistics.
CO3	Have a critical understanding of one's own values and of others, and of their role in making ethical choices.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	-	-	✓	-	-	✓	-	-	✓	✓

SEMESTER VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U6ACCT19	Course Title: Core 19: Strategic Management	Batch	2020-2023
			Semester	VI
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course students will

- The business environment, business policy and strategic management.
- The strategic analysis and strategic planning.
- Various forms of functional strategy.
- An implementation and control of a strategy formulated in an organisation.
- Business Process Reengineering and total quality management

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the strategic management concepts and process
CO2	Demonstrate the knowledge and abilities in formulating strategies and strategic plans
CO3	Assess the choice of strategy to enrich the business
CO4	Devise strategic approaches to managing a business successfully in a global context
CO5	Develop implementation plans to execute strategies

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	√	√	√	-	-	-	√	-	√	√	√
CO2	-	√	√	-	√	-	-		√	-	-	-
CO3	√	-	-	√	√	-	√	√	√	-	-	√
CO4	√	-	√	-	√	√	√		-	√	-	-
CO5	√	√	√	-	-	-	-	√	√	-	√	-

SEMESTER VI

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U6ACCT20**	**Course Title: Core 20: Event Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/Week	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course students will

- Understand the concepts of organizing an event pertaining to event infrastructure, event promotion and marketing plan
- Gain confidence and enjoyment from involvement in the dynamic industry of event management

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the basic concepts and essentials of Events
CO2	Describe briefly the steps in event management including planning, executing and evaluating an event
CO3	To acquire an understanding of the techniques and strategies required to plan successful special events
CO4	Advertising, sales and promotion of an event by applying different methods and use different modes of marketing
CO5	Understand the planning process of an event and follow them without any failure

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	√	√	√	-	-	-	√	-	√	√	√
CO2	-	-	√	-	√	-	-		√	-	-	-
CO3	√	-	-	√	√	-	√	√	√	-	-	√
CO4	√	-	√	-	√	√	-		-	√	-	-
CO5	√	√	√	-	-	-	-	√	√	-	√	-

SEMESTER VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U5ACCT21	Course Title: Core 21: Entrepreneurship Development	Batch	2020-2023
			Semester	VI
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of the course the students should have understood

- To know the concepts of entrepreneurship development
- To Acquire requisite knowledge and skills for becoming successful entrepreneurs
- To Formulate and develop business projects.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Define Entrepreneurship, Entrepreneurs, Intrapreneur types & functions
CO2	Understand the Entrepreneurial Environment
CO3	Understand the role of financial institutions, government bodies in promoting entrepreneurship in India.
CO4	To equip them with insights into their creative, entrepreneurial and team skills.
CO5	Incentives and Subsidies related to the small scale industries

MAPPING WITH PROGRAMME OUTCOMES

Co/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	-	✓	-	-	✓	-✓	-	✓	✓	-	-	-
CO3	✓	✓	-	-	-	-	-	-	✓	-		
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	-	-
CO5	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓

SEMESTER-VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U6ACET3A	Course Title: Elective 3: Labour Welfare & Industrial Relations	Batch	2020-2023
			Semester	VI
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of the course the students should have understood

- To explore contemporary knowledge and gain a conceptual understanding of industrial relations
- Students will know how to resolve industrial relations and human relations problems and promote welfare of industrial labour

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the concept of industrial law and relate it to the public sectors
CO2	Apply the labour law to prevent the various disputes arise in the Organization
CO3	Make use of voluntary and statutory welfare measures provided by the industry
CO4	Analyse and understand the various kinds of labours and their duties in the industry

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓
CO2	✓	✓	-	-	✓	-	-	✓	✓	-	-	-
CO3	-	-	-	-	-	✓	-	-	✓	-	✓	
CO4	-	-	✓	-	✓	-	✓	✓	-	✓	✓	-
CO5	✓	✓	✓	✓	-	-	-	-	✓	-	✓	✓

SEMESTER- VI

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U6ACET3B**	**Course Title: Elective 3: Export and Import Procedures**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/Week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

To make the students understand clearly about,

- To enable the students to understand about export and import procedures. And what are the problems faced by an exporter.
- To provide adequate knowledge on export and import documentation.
- To impact knowledge on export and import procedures.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Describe the needs and importance of export trade and what are the problems faced by an exporters
CO2	Explain various Sources of market information and export marketing channels
CO3	Discuss the various steps involved in export and the types of documents used by an exporter
CO4	Explain Import Trade law in India and the procedures for registering importers
CO5	Elucidate theCustoms clearance of Imported Goods and payments of customs Duty

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	-
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	-	✓	✓	-	-	-	✓	✓	✓	-	-	-

SEMESTER- VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U6ACET3C	Course Title: Elective 3: Risk management and Insurance	Batch	2020-2023
			Semester	VI
Hrs/Week	5Hrs		Credits	3

COURSE OBJECTIVES

To make the students understand clearly about,

- Calculate the risk and manages it
- Understand the Property and Liability Risk Management techniques
- Understand the risk management techniques of Life, Health and Income exposures.
- Understand the functioning of Insurance Industry in India.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Describe and Implementing Risk management techniques.
CO2	Discuss the various Property and Liability Risk Management techniques
CO3	Describe the Risk Management of Auto owners
CO4	Discuss the risk management techniques of Life, Health and Income exposures
CO5	Elucidate thefunctioning of Insurance Industry in India

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	-
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO5	-	✓	✓	-	-	-	✓	✓	✓	-	-	-

SEMESTER VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U6ACET4A	Course Title: Elective 4: Eco-Tourism	Batch	2020-2023
			Semester	VI
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

The successful completion of the course will help the students

- To understand eco-tourism trends, activities, role of eco-tourism development agencies, International organizations in eco-tourism development
- To understand the linkages between eco-development, sustainable development. Environmental issues in tourism development
- To introduce case studies of Eco-tourism places in India

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the functions, management of Eco system & Ecology
CO2	Knowledge about the various kinds of pollution, control measures & food practices
CO3	Analyse the relationship between Tourism and Ecology & Eco tourism activities
CO4	Understand key issues related to sustainable use of ecotourism destinations
CO5	Discuss the various Eco-Tourism Development agencies and related case studies

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	-	✓	-	-	-	-	✓	✓	✓	✓
CO2	✓	✓	✓	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	✓	-	✓
CO4	-	-	✓	-	✓	✓	✓	✓	✓	-	✓	-
CO5	✓	✓	-	✓	-	-	-	-	-	✓	✓	✓

SEMESTER VI

Programme code	BBA (CA)	Programme Title	Bachelor of Business Administration (CA)	
Course code	20U6ACET4B	Course Title: Elective 4: E-Commerce and Digital Marketing	Batch	2020-2023
			Semester	VI
Hrs/Week	5 Hrs		Credits	3

COURSE OBJECTIVES

The successful completion of the course will help the students

- To gain competitive understanding of creating, funding and managing internet business
- To develop EDI transactions between vendor and buyer, and Web-based transactions

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Understand the foundational concepts of e-commerce
CO2	Develop an understanding on how internet can help business grow
CO3	Classify the various methods & strategies of advertising in e-commerce
CO4	Understand the various segments of Business-Business e-commerce
CO5	Gain an understanding on the importance of security, privacy and ethical issues as they relate to e-commerce

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	✓	-	-	-	-	✓	✓	✓	✓
CO2	✓	✓	✓	-	✓	-	-	✓	-	-	✓	-
CO3	-	-	-	-	-	-	-	-	-	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	✓	-	✓	-
CO5	✓	✓	-	✓	-	-	-	-	✓	✓	✓	✓

SEMESTER VI

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course code	**20U6ACET4C**	**Course Title: Elective 4: Customer Relationship Management**	**Batch**	**2020-2023**
			Semester	**VI**
Hrs/Week	**5 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

On successful completion of the course the students should have understood

- The concept and application of Customer relationship management
- The concept of value chain in the Customer relation
- The significance of customer relationship in various fields

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Discuss the conceptual foundation and types of relationship marketing
CO2	Explain the value of a relationship management strategy
CO3	Review several features and benefits of various CRM functions
CO4	Develop a sound Integrated Marketing Communication plans
CO5	Create insight and new learning in the area of customer relationship management

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	-	-	√	√	-	-
CO2	√	√	-	√	√	-	√	√	√	-	√	√
CO3	√	-	-	-	√	-	√	√	-	-	-	√
CO4	-	-	√	-	-	√	√	-	-	√	-	√
CO5	-	√	-	√	-	√	-	√	√	√	√	-

SEMESTER VI

Programme code	**BBA (CA)**	**Programme Title**	**Bachelor of Business Administration (CA)**	
Course Code :	**20U6NCCT02**	**Non Credit Course 4: Aptitude and Soft Skills II**	**Batch**	2020-2023
			Semester	VI
Hrs/week	**3 Hrs.**		**Credits**	-

COURSE OBJECTIVES

To enable the students

- To acquire inter personal skills, problem solving skills and be an effective goal oriented team player.
- To equip the students with the required soft skills that would instill confidence and courage inthem, to take up new opportunities for their career.
- To know about improving various soft skills required while working in a team.
- To understand the various methods of solving problems involving numerical and logical reasoning.
- To understand the methods of solving certain problems not using calculations but using only mental ability.
- To know how to face the personal interview effectively.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO NO	Statements
C01	Apply the inter personal and problem solving skills in the placement drive.
C02	To apply the behavioural skills required for promoting individual competence by implementing the principles of interpersonal communication and value – based living to meet the market expectations.
C03	Grasp the approaches and strategies to solve problems with speed and accuracy.
C04	Ability to reason critically by analyzing , elevating and extending arguments.
C05	Explain the concepts deal with graphs, tables, number sequence and texts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO3	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	✓	-	-	✓	-	✓

Kovai Kalaimagal College of Arts and Science
Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

M.SC COMPUTER SCIENCE

PROGRAMME EDUCATIONAL OUTCOME (PEO),
PROGRAMME OUTCOMES (PO),
COURSE OUTCOMES (CO)

M.SC COMPUTER SCIENCE

For the Students Admitted in the Academic year 2020-2021.

Programme Educational Objectives

PEO1: Graduates would be ideal IT professionals carrying out their tasks with professionalism and professional Ethics.

PEO2: Graduates would have become entrepreneurs in their own capacity.

PEO3: Graduates would be pursuing research programmes in order to contribute to the ever changing IT industry with innovative products.

Programme Outcomes:

After completion of two years of study, our M.Sc IT Graduates will be able to :

PO1: Demonstrate english language proficiency to an approriate level to perform effectively in the enterprise/industry/Community such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO2: Develop domine knowledege relevant to the industry enabling to succeed in rapidly changing working environment.

PO3: Ability to apply the knowledge of computer system design principles in building system software and hardware.

PO4: Acquiring adequate knowledge in inter disciplinary subjects such as Commerce,Mathematics and Statistics for enhanced applications of softwares developed.

PO5: Developing positive attitude by instilling confidence in the minds of students by suitable programs.

PO6: An ability to make the students think out of the box and solve complex problems arising in shop floor situation.

PO7: Work individually or as a team with responsibility to function on multidisciplinary teams.

PO8: Carrying out the task assigned by the industries with professional ethics and at the same time with the consent for well being of the society.

PO9: An ability to recognize their own strengths and weaknesses and balance their own emotions at the time of crisis

PO10: An ability to acquire entrepreneurship qualities and to take efforts to become entrepreneurs.

PO11: Extend the services of the department for the betterment of the society and environmental protection.

PO12: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Outcomes (Pos)

SEMESTER – I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCT01	Title:Core 1:ASP . NET	Batch:	2020-2022
			Semester:	I
Hrs/Week:	4 Hrs		Credits:	4

COURSE OBJECTIVES

- On Successful Completion of this subject the students should have knowledge on Asp.net Concepts.
- To inculcate Knowledge tin developing database applications in ASP.Net
- Got the skill of developing Web Applications
- Maintain session and controls related information for user used in multi user web applications.
- Understand the fundamentals of developing modular application by using object oriented methodologies

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the Basics of Programming and development environment in ASP.Net
CO2	Describe about Visual basic. NET and ASP Server object technologies
CO3	Enumerate the ASP.NET Configuration and session object.
CO4	Elucidate on Active Server Components and Server Controls.
CO5	Determine the connect database in Active server web page with web services applications.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO2	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO3	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO4	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO5	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓

SEMESTER – I

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**	
Course Code:	20P1CSCT02	Title:Core 2: Data Mining And Warehousing	Batch:	2020-2022
			Semester:	I
Hrs/Week:	4 Hrs		Credits:	4

COURSE OBJECTIVES

- Identify the scope and necessity of Data Mining & Warehousing for the society
- To enable the students to learn the Data mining Tasks and data warehousing Techniques.
- To understand the Association Rules,Clustering Techniques in Data mining.
- To know about the OLAP and OLTP Concepts in Data warehousing.
- To develop ability to design various algorithms based on data mining tools.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	**CO Statement**
CO1	Explain the fundamental concepts of Data Mining
CO2	Describe Classification and **N**eural Network Based Algorithms
CO3	Illustrating the Clustering and Association rule with suitable algorithm
C04	Explain the fundamental concepts of OLAP
C05	Choose case study about Data warehousing and data mining with various domain

MAPPING WITH PROGRAMME OUTCOMES

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO2	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO3	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO4	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓
CO5	-	✓	✓	-	-	灵	-	✓	-	-	✓	✓

SEMESTER – I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCT03	Title:Core 3:Advanced Computer Networks	Batch:	2020-2022
			Semester:	I
Hrs/Week:	4Hrs		Credits:	4

COURSE OBJECTIVES

- The course is aimed at providing basic understanding of Computer networks starting with OSI Reference Model, Protocols at different layers.
- To learn about the digital networks & internet protocols.
- To have a clear idea about various functions of TCP and UDP.
- To learn about user networks interfaces and protocols of on B-ISDN and its operations and maintenance.
- The learning outcomes include understanding the principles for implementing a multi layer network, management systems for the network and routing of information throughout the network.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain about the data communication and Networking and various transmission methods
CO2	Describe various transmission media and routing algorithms
CO3	Apply the networking protocal and OSI model in computer communication
CO4	Expalin about various Digital Networks and Internet protocols and their standard
CO5	Elusidate gensis, principles and standard of ATM

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCT04	Title: Core 4:Advanced Software Engineering	Batch:	2020-2022
			Semester:	I
Hrs/Week:	4 Hrs		Credits:	3

COURSE OBJECTIVES

- To build on their basic software engineering knowledge by extending it with specific techniques for maintenance, evolution, dependability, reliability, safety, security, and resilience.
- To provide an advanced understanding and knowledge of the *software engineering* techniques, techniques to collect software requirements
- To provide knowledge on Software engineering concepts
- To make the students understand various techniques of cost estimation of software , software design and software Requirements.
- To understand various issues in implementation of software , verification , validation and maintenance of software.

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COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Classify the process models for a software project Development.
CO2	Relate the SRS, Design document, Project plan of a given software system
CO3	Estimate the cost of software using different techniques
CO4	Design and develop a software, verify and validate the same using different techniques
C05	Explain about how to validate and verify the project

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCP05	Title:Core 5:ASP .Net Programming – Practical	Batch:	2020-2022
			Semester:	I
Hrs/Week:	4 Hrs		Credits:	3

COURSE OBJECTIVES

- To develop the applications using ASP.NET programming language.
- To apply the concepts like different controls, mathematical functions and database in real problems.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Choose the looping and decision making statements to solve the problems in ASP.Net.
CO2	Develop an application using Console, GUI and web in .NET
CO3	Develop a programming in ASP.Net
CO4	Creating an application using ASP.Net for connection database.
CO5	Creating an application using ASP.Net validation

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCP06	Title:Core 6: Data Mining Using R Tool –Practical	Batch:	2020-2022
			Semester:	I
Hrs/Week:	3 Hrs		Credits:	3

COURSE OBJECTIVES

- To develop the Algorithms using R-Tool in Data Mining.
- To apply the Concepts like Prepossessing, Association Rule, Classification Rule and Clustering Rule to various domains

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Create and apply various data sets with the help of R-Tool to develop various algorithms involving association, classification and clustering.
CO2	Knowledge of this R-Tool used to demonstrate practical experience in Real-Time applications and to use the knowledge for getting involved research.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	灵	-	✓	-	✓
CO2	-	✓	✓	-	-	✓	-	灵	-	✓	-	

SEMESTER - I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1CSCP07	Title:Core 7:NS2 - Practical	Batch:	2020-2022
			Semester:	I
Hrs/Week:	3 Hrs		Credits:	3

COURSE OBJECTIVES

- To Find Number of Packets using NS2
- To determinr CRC(Cyclic Redundancy Check) Concepts.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Understand the simulation using NCTU/NS
CO2	Simulate a three nodes point – to – point network with duplex links between them.
CO3	Understand the error detecting using cyclic redundancy check (CRC).

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – I

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P1TSSP01	Title: Technical Skill Subject 1: Open Source software using PHP -Practical	Batch:	2020-2022
			Semester:	I
Hrs/Week:	2 Hrs		Credits :	2

COURSE OBJECTIVES

- To develop web applications using PHP programming language.
- To apply the concepts like different controls and mathematical functions

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Develop a Program in PHP
CO2	Develop an application using Classes web in .NET
CO3	Creating an application and find out biggest numbers
CO4	Creating an application using PHP for Mathematical Function

Mapping with Programme Outcomes

Cos	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSCT08**	**Title: Core 8:Distributed Computing And Linux**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**5 Hrs**		**Credits :4**

COURSE OBJECTIVES

- To Understand foundations of Distributed Systems.
- To provide knowledge in the concepts of operating system and shell programming
- To make the students understand the various techniques in operating systems
- To provide knowledge in linux concepts
- To understand various issues in Synchronization techniques

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the fundamental concepts of Computer Networks and ATM Technology.
CO2	Elucidate on Encoding and Decoding and RPC Models.
CO3	Solve the real world problems by using Deadlock concepts
CO4	Categorize the Open source softwares
CO5	Assess the Linux File Structure and TCP/IP networks

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSCT09**	**Title:Core 9:Cloud Computing**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**5 Hrs**		**Credits: 4**

Course Objectives

To understand the Systems with the comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture and applications.

- To learn the basics of cloud computing .
- Understand the architecture and concept of different cloud models: IaaS, PaaS, SaaS.
- To Understand the Cloud computing architectures, applications and challenges.
- To learn about various cloud storages.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT
CO1	Explain the basics of cloud computing
CO2	Provide details about the Cloud computing architectures, applications and challenges
CO3	Discuss about the various cloud storages, Schedules and Task Management and explain how to collaborate on various functions using cloud
CO4	Create groups on social network and evaluate online groupware
CO5	demonstrate storing and sharing the files, photo using cloud

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSCT10**	**Title: Core 10:Advanced Java Programming**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

COURSE OBJECTIVES

- To learn the basics of Object oriented Programming .
- To Understand the Concept of Inheritance, Exception Handling.
- To learn about JDBC Connectivity and Servlets.
- To develop Java client/server applications.
- To Identify advance concepts of java programming with database connectivity.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the fundamental concepts of java language and control structure
CO2	Elucidate on inheritance, interface and types of Exception
CO3	Classify the java packages
CO4	Demonstrate how to connect a Network using JDBC
CO5	Discuss about Remote method Innovation

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSCP11**	**Title: Core 11:Linux Using Shell Scripting- Practical**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

Course Objectives

- To develop the Linux using the Shell Script .
- To apply the Concepts like basic shell script programs
- To implement the system calls, fork and exec commands

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Interpret various test command with the help of Shell script involving status of file, menu driven, case conversion, command line arguments etc.,
CO2	Writing various programs using shell script.

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSCP12**	**Title:Core 12:Advanced Java Programming -Practical**	**Batch:2020-2022**
			Semester:II
Hrs/Week:	**4 Hrs**		**Credits:3**

Course Objectives

- To Develop applications using Java Language.
- To apply the Concepts like Looping, Classes, Inheritance, Applets and RMI

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Create a Java program using inheritance and Exception handling mechanism
CO2	Demonstrate using Java Applets and how to connect a JDBC in Java

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2TSSP02**	**Technical Skill Subject 2: Web Technology - Practical**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**2 Hrs**		**Credits: 2**

COURSE OBJECTIVES

- To develop the web applications using HTML programming language.
- To develop the web applications using Java Script and PHP programming language.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Develop a web application using HTML
CO2	Develop a web page using Java Script
CO3	Design a web page of book details using XML

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSET1A**	**Title: Elective 1: Grid Computing**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

Course Objectives

- To get Knowledge on Grid Computing , and its environment.
- To get Knowledge on its techniques and Architecture and Implementation.
- To get Knowledge on Cluster , managing grid and its services.
- To equip the learner with knowledge and skills in implementing Cloud and Grid Computing technologies in organizations.
- To identify the technical foundations of cloud systems architectures.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the basics of Grid Computing
CO2	Elaborate on Grid Computing architectures, applications and challenges
CO3	Elucidate on managing grid and its services.
CO4	Give clear idea about the Open Grid Service Architecture and open grid services infrastructure
CO5	Explain different emerging security and Grid Computing Technologies in grid

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSET1B**	**Title:Elective 1: Neural Networks And Genetic Algorithm**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

COURSE OBJECTIVES

- To introduce the fundamentals of neural networks, fuzzy systems, and genetic algorithms.
- To learn about the basics of neural networks and its applications and artificial neural networks and its processes.
- To understand the concept of Genetic Algorithms.
- To understand the concepts of fuzzy sets, knowledge representation using fuzzy rules, approximate reasoning, fuzzy inference systems, and fuzzy logic control and other machine intelligence applications of fuzzy logic.
- To understand the basics of an evolutionary computing paradigm known as genetic algorithms and its application to engineering optimization problems.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the basics of neural networks
CO2	Narrate the Characteristics of Netural Networks
CO3	Give a clear idea about the Fundamentals of Genetic Algorithms
CO4	Explain the architecture and application of Backpropogation Networks
CO5	Discuss about the ART architecture and relevant algorithms

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSET1C**	**Title:Elective 1: E –Technologies**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

COURSE OBJECTIVES

- To have an understanding of the Basics of E-Commerce and Technology infrastructure required for implementing the same.
- To have a knowledge on various methods and strategies for selling on the web.
- To Know about web server and software required for implementing E-Commerce.
- To Know in detail about various E-Marketing structures and E-Security.
- To improve the educational technology encompasses e-learning.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Demonstrate the knowledge on fundamental concepts of E-Commerce and infrastructure required for the same
CO2	Elucidate on various methods and strategies followed for selling on the web.
CO3	Explain about web server software and its functions
CO4	Enumerate various E-Marketing strategies
CO5	Explain about E-Business Strategy

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER - II

Programme code:	**M.Sc CS**	**Programme Title**	**Master of Computer Science**
Course Code:	**20P2CSET1D**	**Title:Elective 1: Cyber Law And Security Policy**	**Batch:2020-2022**
			Semester: II
Hrs/Week:	**4 Hrs**		**Credits: 4**

COURSE OBJECTIVES

To understand the Concepts of Cyber Law and Data Security.
To understand the Intellectual Property Rights,the Evidence and Criminal Aspect in Cyber Law.
To develop the understanding of relationship between commerce and cyberspace.
To enable learner to understand, explore, and acquire a critical understanding Cyber Law.
To explore the legal and policy developments in various countries to regulate Cyberspace.

COURSE OUTCOMES

On the successful completion of the course, students will be able

CO Number	CO Statement
CO1	State the History ,Features and Benefits of Cyber Law
CO2	Classify the various methods of providing security data
CO3	Explain the Criminal aspect in Cyber Law
CO4	Elucidate on global trends in Cyber law and information Technology Act
CO5	Explain the Information Technology Act

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P3CSCT13	Title:Core 13:Digital Image Processing	Batch	**2020-2022**
			Semester	III
Hrs/Week:	4 Hrs		Credits	4

COURSE OBJECTIVES

- To study the image fundamentals and mathematical transforms necessary for image processing.
- To study the image enhancement techniques.
- To study image restoration procedures.
- To study the image compression procedures.
- To analyze images in the frequency domain using various transforms

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Review the fundamental concepts of a digital image processing system
CO2	Analyze images in the frequency domain using various transforms.
CO3	Show the input – output organization, memory and their functionsEvaluate the techniques for image enhancement and image restoration
CO4	Categorize various compression techniques.
CO5	Interpret Image compression standards.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	✓	✓	-	✓	-	✓	-	✓
CO2	-	✓	✓	-	✓	✓	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	✓	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	✓	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	✓	✓	-	✓	-	✓	-	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Masterof Computer Science	
Course Code:	20P3CSCT14	Title:Core 14: Python Programming	Batch	**2020-2022**
			Semester	III
Hrs/Week:	4 Hrs		Credits	4

COURSE OBJECTIVES

- Develop a basic understanding of programming and the Python programming language.
- Understanding of scripting and the contributions of scripting languages.
- To learn how to use lists, tuples, and dictionaries in Python programs.
- To provide Built-in objectives of python knowledge.
- To understand why Python is a useful scripting language for developers

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Understanding of modern version control tools.
CO2	Exhibit facility with a Linux command line environment.
CO3	Understanding of the role of testing in scientific computing, and write unit tests in Python.
CO4	Command line tools to write and edit code.
CO5	Write code in Python to perform mathematical calculations and scientific simulations.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	✓	-	✓	✓	-	✓
CO2	-	✓	✓	-	-	-	✓	-	✓	✓	-	✓
CO3	-	✓	✓	-	-	-	✓	-	✓	✓	-	✓
CO4	-	✓	✓	-	-	-	✓	-	✓	✓	-	✓
CO5	-	✓	✓	-	-	-	✓	-	✓	✓	-	✓

SEMESTER - III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science
Course Code:	**20P3CSCT15**	Title: Core 15:BIG DATA and ANALYTICS	Batch: **2020-2022**
			Semester: I
Hrs/Week:	4 Hrs		Credits: 4

COURSE OBJECTIVES

- To explore the fundamental concepts of big data analytics
- To develop in-depth knowledge and understanding of the big data analytic domain.
- To learn to analyze the big data using intelligent techniques.
- To understand the various search methods and visualization techniques.
- To learn to use various techniques for mining data stream.
- To understand the applications using Map Reduce Concepts

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COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Classify the characteristics of Big data and analytics tools.
CO2	Relate the data analysis models of a given data sets
CO3	Learn to use various techniques for mining data stream.
CO4	understand the applications using Map Reduce Concepts
CO5	Ability to understand the Frameworks And Visualization

MAPPING WITH PROGRAMME OUTCOMES

COs	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Masterof Computer Science	
Course Code:	20P3CSCP16	Title:Core 16: Digital Image Processing - Practical	Batch	**2020-2022**
			Semester	III
Hrs/Week:	4 Hrs		Credits	3

COURSE OBJECTIVES

- The fundamentals of digital image processing
- Image transform used in digital image processing
- Image enhancement techniques used in digital image processing
- Image restoration techniques and methods used in digital image processing
- Image compression and Segmentation used in digital image processing

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Learning basic digital image representation principals
CO2	Ability to perform spatial and frequency domain analysis
CO3	Learning methods involving binary, gray scale and color image representations
CO4	Gaining hands on experiencein the use of Matlab
CO5	Learning types of image compression.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12
CO1	-	✓	✓	-	✓	-	-	✓	-	✓	-	✓
CO2	-	✓	✓	-	✓	-	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	✓	-	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	✓	-	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	✓	-	-	✓	-	✓	-	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P3CSCP17	Title:Core 17: Python Programming – Practical	Batch	**2020-2022**
			Semester	III
Hrs/Week:	3 Hrs		Credits	3

COURSE OBJECTIVES

- To acquire basic knowledge of python programming.
- Understand decision making and functions in python.
- Learn object oriented programming using python.
- Write and debug iles handling in python.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Review the concepts of python functions.
CO2	Develop python program using decision making statement
CO3	Interpret object oriented programming in python.
CO4	Design and develop GUI applications
CO5	Find the error using Exception Handling.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO 2	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO 3	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO 4	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓
CO 5	-	✓	✓	-	✓	-	✓	-	-	✓	✓	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P3CSCP18	TITLE: Core :18 ANDROID AND ITS APPLICATION PRACTICAL	Batch	**2020-2022**
			Semester:	III
Hrs/Week:	3 Hrs		Credits:	3

COURSE OBJECTIVES

- On Successful Completion of this subject the students should have knowledge on Android Concepts.
- To enable the students to write android based script for application development.
- To make the students learn and understand eclipsed based IDE programming for the android environment.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Use the basic concepts of android.
CO2	Develop an application using Console, GUI.
CO3	Develop menu concepts in android.
CO4	Creating an application using navigation.
CO5	Develop android application to store data in internal device.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1 2
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	□	✓

PROGRAM LIST

- 1.Create “Hello World” application. That will display “Hello World” in the Middle of the screen in the red color with white background.
- Create and login application as above. On successful login , open browser with any URL.

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	**20P3CSET2A**	Title: Elective 2: ENTERPRISE RESOURCE PLANNING	Batch	**2020-2022**
			Semester	**III**
Hrs/Week:	4 Hrs		Credits	4

Course Objectives

- To understand capability to streamline the different organizational processes and work flows in ERP.
- To learn about the improved efficiency, performance, and productivity levels of ERP.
- To know the basics of ERP , key implementation, business modules and future trends in ERP.
- To provide a contemporary and forward-looking on the theory and practice of Enterprise Resource Planning Technology.
- To focus on a strong emphasis upon practice of theory in Applications and Practical- oriented approach.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	To understand the Functional Module, ERP Market and Vendors
CO2	To Apply the knowledge of ERP Services
CO3	Analyse the Business Process Re-engineering And ERP
CO4	To Evaluate the knowledge of Planning and implementation of ERP
CO5	To Create the Mobile module by Managing ERP Projects

Mapping Outcome

CO & PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	–	✓	✓	✓	–	✓	–	✓	–	–	–	✓
CO2	–	✓	✓	✓	–	✓	–	✓	–	–	–	✓
CO3	–	✓	✓	✓	–	✓	–	✓	–	–	–	✓
CO4	–	✓	✓	✓	–	✓	–	✓	–	–	–	✓
CO5	–	✓	✓	✓	–	✓	–	✓	–	–	–	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P3CSET 2B	Title: Elective 2: Software Testing	Batch	2020-2022
			Semester	**III**
Hrs/Week:	4 Hrs		Credits	4

13.

COURSE OBJECTIVES

- To study fundamental concepts in software testing, including software testing objectives, process, criteria, strategies, and methods.
- To discuss various software testing issues and solutions in software unit test, integration, regression, and system testing.
- To understand software test automation problems and solutions.
- To learn how to write software testing documents, and communicate with engineers in various forms.
- To gain the techniques and skills on how to use modern software testing tools to support software testing projects.

COURSE OUTCOMES

On the successful completion of the course, students will be able to achieve the following Outcomes

CO Number	CO Statement
CO1	Investigate the reason for bugs and analyse it for preventing and remove the bugs
CO2	Implement various test process for quality standard
CO3	Designing test plan for various problems
CO4	Manage test case and process
CO5	Understanding testing techniques

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	–	–	–	✓	✓	–	–	氷	氷	✓
CO2	-	✓	–	–	–	✓	✓	–	–	氷	氷	✓
CO3	-	✓	–	–	–	✓	✓	–	–	氷	氷	✓
CO4	-	✓	–	–	–	✓	✓	–	–	氷	氷	✓
CO5	-	✓	–	–	–	✓	✓	–	–	氷	氷	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course Code:	20P3CSET2C	TITLE: Elective 3: ANDROID AND ITS APPLICATION	Batch:	2020-2022
			Semester:	III
Hrs/Week:	4 Hrs		Credits:	4

COURSE OBJECTIVES

- On Successful Completion of this subject the students should have knowledge on Android Concepts.
- To enable the students to write android based script for application development.
- To make the students learn and understand eclipsed based IDE programming for the android environment.
- Familiarize with Android's APIs for data storage, retrieval, user preferences, files and content providers.
- To develop a grasp of the Android OS architecture and application development lifecycle

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain the Basics of Programming and development environment in Android
CO2	designed for students to learn how to build Android apps in a professional manner.
CO3	tto impart knowledge of User interface, Activity , Views, Services and SQLite.
CO4	Manage test case and process
CO5	Understanding testing techniques

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	-	✓	✓

SEMESTER – III

Programme code:	M.Sc CS	Programme Title	Master of Computer Science	
Course code:	20P3CSET2D	Title: ELECTIVE 2: SOFTWARE PROJECT MANAGEMENT	Batch	2020-2022
			Semester	**III**
Hrs/Week:	4 Hrs		Credits	4

Course Objectives

- To get knowledge of how to handle project development activities. To understand the threats and opportunities in Project managements.
- To study various project cost, time estimation models and how to make quality software.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement
CO1	To understand the activities of
CO2	To Apply the knowledge of Project evaluation
CO3	Analyse the Business Process Re-engineering
CO4	To Evaluate the knowledge of Planning and implementation Projects
CO5	To Create the Mobile module by Managing Projects

Mapping **Outcome**

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	–	✓	✓	–	氷	✓	–	氷	–	–	–	✓
CO2	–	✓	✓	–	氷	✓	–	氷	–	–	–	✓
CO3	–	✓	✓	–	氷	✓	–	氷	–	–	–	✓
CO4	–	✓	✓	–	氷	✓	–	氷	–	–	–	✓
CO5	–	✓	✓	–	氷	✓	–	氷	–	–	–	✓

Kovai Kalaimagal College of Arts and Science

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(An Autonomous Institute, Affiliated to Bharathiar Unive
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE OUTCOMES (CO)

M.SC INFORMATION TECHNOLOGY

For the Students Admitted in the Academic year 2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES AND PROGRAMME OUTCOME

Programme Educational Objectives

PEO1: Graduates would be ideal IT professionals carrying out their tasks with professionalism and professional Ethics.

PEO2: Graduates would have become entrepreneurs in their own capacity.

PEO3: Graduates would be pursuing research programmes in order to contribute to the ever changing IT industry with innovative products.

Programme Outcomes:

After completion of two years of study, our M.Sc IT Graduates will be able to :

PO1: Demonstrate english language proficiency to an approriate level to perform effectively in the enterprise/industry/Community such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO2: Develop domine knowledege relevant to the industry enabling to succeed in rapidly changing working environment.

PO3: Ability to apply the knowledge of computer system design principles in building system software and hardware.

PO4: Acquiring adequate knowledge in inter disciplinary subjects such as Commerce,Mathematics and Statistics for enhanced applications of softwares developed.

PO5: Developing positive attitude by instilling confidence in the minds of students by suitable programs.

PO6: An ability to make the students think out of the box and solve complex problems arising in shop floor situation.

PO7: Work individually or as a team with responsibility to function on multidisciplinary teams.

PO8: Carrying out the task assigned by the industries with professional ethics and at the same time with the consent for well being of the society.

PO9: An ability to recognize their own strengths and weaknesses and balance their own emotions at the time of crisis

PO10: An ability to acquire entrepreneurship qualities and to take efforts to become entrepreneurs.

PO11: Extend the services of the department for the betterment of the society and environmental protection.

PO12: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

SEMESTER I

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P1ITCT01	Title : Core 1 : Advanced Java Programming	Batch	2020-2022
			Semester	I
Hrs/week	4		Credits	4

COURSE OBJECTIVES

- To enable the students to provide an indepth knowledge about the concepts of language structure, program divisions of JAVA .
- Ability to design console based, GUI based programming language and Web based applications
- Understand the concept of JSP,Servlet Basics and JDBC and Inter Servlet Communications.
- Understand the Java Bean Component model.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the fundamental concepts of Java language.
CO2	Use GUI components from AWT and Swing including buttons and text components
CO3	Illustrate the methods to send and receive data through sockets
CO4	Describe the concept of JSP,Servlet Basics and JDBC
CO5	Summarize the concepts of JavaBean

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER I

Programme Code :	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code :	20P1ITCT02	Title : Core 2: Network Security	Batch	2020-2022
			Semester	I
Hrs/week	4		Credits	4

COURSE OBJECTIVES

- Understand the fundamental principles of Network, various network, cryptographic techniques, authentication and its standards.
- Understand the various methods of password management and protocols to maintain system security
- Understand various types of attacks and their characteristics
- Learn the security concepts exposed to original research in network security

COURSE OUTCOMES (CO)

On successful completion of the course the student should be able to

CO Number	CO Statement
CO1	Explain various types of attacks and their characteristics
CO2	Illustrate the basic concept of encryption and decryption for secure data transmission.
CO3	Describe the fundamentals of secret and public cryptography
CO4	Describe the various methods of password management and protocols to maintain system security
CO5	Survey the security concepts exposed to original research in network security

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓	-
CO5	-	✓	✓	-	-	✓	-	-	-	-	✓	-

SEMESTER I

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P1ITCT03	Title : Core 3 : Cyber Laws and Security Policies	Batch	2020-2022
Hrs/week	3		Semester	I
			Credits	3

COURSE OBJECTIVES

To enable the Students

- Understand the Basics of Cyber Law and Cyber Security.
- Identify how intruders escalate privileges and what steps can be taken to secure a system.
- Introduce and demonstrate hacking tools for penetration testing purposes only.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the basic concepts of Cyber Law & Ethics of Cyber Law.
CO2	Indicate the various Data Encryption Methodologies.
CO3	Enumerate about the Cyber Crime factors & Preventive Measures.
CO4	Demonstrate the use of Digital Signatures & Certificates .
CO5	Recognize and Detect Cyber Attacks.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	✓	✓	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	✓	✓	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	✓	✓	✓	-	✓	-	-	-	✓
CO5	-	✓	-	✓	✓	✓	-	✓	-	-	-	✓

SEMESTER I

Programme Code :	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code :	**20P1ITCT04**	**Title : Core 4: Design and Analysis of Algorithms**	**Batch**	**2020-2022**
			Semester	**I**
Hrs/week	**4**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the students to write efficient algorithms for simple computational tasks and reasoning about the correctness of them.
- To understand different design strategies and the use of data structures in improving algorithmic performance.
- To Understand the security concepts exposed to original research in network security
- To enable the students to learn the Branch and Bound Techniques

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Analyze the asymptotic performance of algorithms
CO2	Differentiate different algorithmic approaches, techniques and methods
CO3	Apply design and analysis techniques for a given algorithm.
CO4	Apply optimization techniques for improving the efficiency of algorithms.
CO5	Find optimal solution by applying various methods

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	-	-	-	-	-	-	-	-	-	-
CO5	-	✓	-	-	-	-	-	-	-	-	-	-

SEMESTER I

Programme Code	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code	**20P1ITCP05**	**Title : Core 5: Advanced Java Programming- Practical**	**Batch**	**2020-2022**
			Semester	**I**
Hrs/week	**4**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the students to gain knowledge in developing Java Programs for certain specified problems.
- To understand the basics of various applications using servlet communications.
- To understand the concepts of virtual functions and control structures

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Develop programs in Java to demonstrate Classes and objects
CO2	Use various types constructors and JFC.
CO3	Apply the concepts of virtual functions and control structures.
CO4	Design various applications using servlet communications.
CO5	Demonstrate Bean Development Environment and JSP Scripts.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	✓	-	✓

CO Number	CO Statement
CO1	Identify the problem given and design the algorithm using various algorithm design techniques.
CO2	Implement various algorithms in a high level language
CO3	Analyze the performance of various algorithms.
CO4	Compare the performance of different algorithms for same problem.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER-I

Programme Code	M.Sc.IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P1TSSP01	Technical Skill Subject 1: Open Source software using PHP – Practical	Batch	2020-2022
			Semester	I
Hrs/ Week	2		Credits	2

COURSE OBJECTIVES

- To enable the students to gain knowledge in developing web applications using PHP programming language.

COURSE OUTCOMES

On the successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Develop a Program in PHP
CO2	Develop an application using Classes web in .NET
CO3	Creating an application and find out biggest numbers
CO4	Creating an application using PHP for Mathematical Function

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	-	-	✓

SEMESTER II

Programme Code :	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code :	**20P2ITCT07**	**Core 7: Distributed Computing And Linux**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week	**5**		**Credits**	**4**

COURSE OBJECTIVES

- To enable the students to provide an indepth knowledge about the concepts of Distributed computing and enable the students to write programs using Linux.
- To understand the concept of distributed process and communication.
- To understand the concept of Linux,file managemet operation and shell script.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Discuss the concept of distributed system,types and its architecture
CO2	Describe the concept of distributed process and communication
CO3	Summarize the distributed synchronization and its algorithms
CO4	Use the Fault Tolerance and Client-Server Communication
CO5	Summarize the concepts of Linux,file managemet operation and shell script.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	✓	-	✓

SEMESTER II

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P2ITCT08	Core 8 : Python Programming	Batch	2020-2022
			Semester	II
Hrs/week	4		Credits	3

COURSE OBJECTIVE:

- To enable the students to Learn Syntax, semantics and create Functions in Python.
- To Understand Regular expressions in constructing Data Structures and Build Web Services.
- To understatnd the Data Structures using Python
- Understand the concepts of Regular Expressions and Object-Oriented programming as used in Python

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Exposed to Python syntax and semantics and be fluent in the use Python flow control and functions.
CO2	Create and run Python Programs using Lists, Dictionaries and handle File Systems.
CO3	Explain the concepts of Regular Expressions and Object-Oriented programming as used in Python.
CO4	Build Data Structures using Python.
CO5	Create programming projects from scratch using in-demand skill and technologies

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	✓	-	✓

SEMESTER II

Programme Code :	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code :	20P2ITCT09	Core 9: Object Oriented Analysis and Design	Batch	2020-2022
			Semester	II
Hrs/week	4		Credits	3

COURSE OBJECTIVES

- To specify, analyze and design the use case driven requirements for a particular system and helps to model the event driven state of object and transform them into implementation specific layouts.
- Understands the UML programming by exploiting the objects in the real world.
- Understands the UML programming by exploiting the objects in the re

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Analyze and design the use case driven requirements for a particular system
CO2	Analyze and identify the subsystems, various components and collaborate them interchangeably
CO3	Recollect about the basic functionality of object and to know how objects work with different methodologies.
CO4	To analyse the problem and tends to refine the problem into concepts.
CO5	Describe the UML programming by exploiting the objects in the real world.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER II

Programme Code :	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code :	20P2ITCT10	Core 10: Big Data Analytics	Batch	2020-2022
			Semester	II
Hrs/week	5		Credits	4

COURSE OBJECTIVES

- To enable the studetns to provide the knowledge about the Big Data Fundamentals, including the characteristics of Big Data, the sources Big Data (such as social media, sensor data, geospatial data etc),
- To enable the studetns to understand the challenges imposed around information management, data analytics, privacy and security, as well as platforms and architectures
- Understand the the concepts of HDFS and MapReduce framework

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the the concepts of HDFS and MapReduce framework
CO2	Explain the Hadoop 2.x Architecture
CO3	Implement HBase and MapReduce Integration
CO4	To analyse the problem and tends to refine the problem into concepts. Implement best Practices for Hadoop Development
CO5	Work on a Real Life Project on Big Data Analytics

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	-

SEMESTER II

Programme Code :	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code :	**20P2ITCP11**	**Core 11:Linux - Practical**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week	**4**		**Credits**	**3**

COURSE OBJECTIVES

- To develop the applications using Linux Programming.
- To apply the concepts of shell script and linux programming

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Learn to know the working of RMI and RPC
CO2	Know the concept working in syncronization
CO3	How to make, remove, rename, copy and move files and directories
CO4	Learn to identify and change the permissions of files and directories and what the consequences of these are.
CO5	Learn to write shell scripting.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER II

Programme Code :	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P2ITCP12	Core 12 :Python Programming-Practical	Batch	2020-2022
			Semester	II
Hrs/week	4		Credits	3

COURSE OBJECTIVES

- To write, test, and debug simple Python programs.
- To develop the applications using Python programming language.

COURSE OUTCOMES:

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Develop proficiency in creating applications, testing and debugging of code written in Python using the Python Programming Language.
CO2	Understand the various data structures available in Python programming language and apply them in solving computational problems.
CO3	Perform text filtering with regular expressions in Python
CO4	Draw various kinds of plots using PyLab

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	✓	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	✓	-	✓	-	-	-	-	-	✓

SEMESTER II

Programme Code :	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code :	**20P2ITET1A**	**Elective 1 : Grid Computing**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week	**4**		**Credits**	**4**

COURSE OBJECTIVES

To enable the students

1. To be familiar with the fundamental components of Grid environments, such as authentication, authorization, resource access, and resource discovery.
2. To design and implement Grid computing applications using Globus or similar toolkits .
3. To justify the applicability, or non-applicability, of Grid technologies for a specific application.
4. To understand where the grid computing could be effectively utilized by illustrations of applications of grid computing.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain various Grid Standards, Principles, Approaches , Methods in Grid Environment.
CO2	Know the application, History, learning and Motivation theories in assessing the Economic Strategy and Satisfaction.
CO3	Describe the grounding in the architecture of the Grid, and exposure to various implementations of the infrastructure.
CO4	Evaluate the Grid Service Taxonomy, functionalities in Grid Service Architecture.
CO5	Explain the various applications of grid computing.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓
CO2	-	✓	-	✓	✓	-	✓	✓	-	✓	-	-
CO3	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓
CO4	-	✓	✓	-	✓	-	✓	-	-	-	-	✓
CO5	-	✓	-	-	-	✓	-	-	✓	✓	-	-

SEMESTER II

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P2ITET1C	Elective 1 : Bioinformatics	Batch	2020-2022
			Semester	II
Hrs/week	4		Credits	4

COURSE OBJECTIVES:

To enable the students

- To understand the basic concepts in molecular biology and genetics.
- To understand the various methods of phylogenetic tree construction
- To understand the various techniques of proteomics.
- To understand the structure and functions of the genomes.
- To know the application areas of bioinformatics.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describes about the concepts of molecular biology.
CO2	Interpret the characteristics of phylogenetic methods
CO3	Explain the pair wise sequence alignment methods.
CO4	Explain the protein synthesis in eukariotic cells.
CO5	Describe the various bioinformatics applications.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	-
CO2	-	✓	✓	✓	✓	✓	✓	-	✓	✓	-	✓
CO3	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓
CO4	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-
CO5	-	✓	✓	-	-	-	✓	✓	-	✓	-	✓

SEMESTER II

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P2ITET1D	Elective 1 : Wireless Communication	Batch	2020-2022
Hrs/week	4		Semester	II
			Credits	4

COURSE OBJECTIVES

To enable the Students

- To understand the basics of wireless voice and data communication technologies.
- To study the working principles of wireless LAN and its standards .
- To build working knowledge on various telephone and satellite networks.
- To build knowledge on various Mobile Computing algorithms.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Recognize various bandwidth Coherences and various Channels.
CO2	Explain the Cellular concepts and Frequency coverage calculations.
CO3	Elucidate the Wireless computing Algorithms and Technologies.
CO4	Identify two core networks associated with 3G Cellular networks
CO5	Compare the data transfer rates with those over Wireless LAN

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	✓	-	-	✓	-
CO2	-	✓	-	✓	✓	-	-	✓	✓	✓	✓	-
CO3	-	-	-	-	-	✓	✓		-	-	-	-
CO4	-	-	✓	-	✓	-	✓		✓	✓	-	-
CO5	-	-	-	✓	✓	-	-	✓	-	-	✓	-

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Classify the difference between web content mining, web structure mining and web usage mining and their applications.
CO2	Summarize the web content mining in accordance with machine learning concepts.
CO3	Communicate the diverse concepts of object ranking, group detection, collective classification, link prediction and sub graph discovery to build various models in linked data.
CO4	Focusing on extracting the structured data from some fixed templates and extracting enables us to separate the particular data from multiple sources.
CO5	Explain the automatic discovery of meaningful patterns and relationships from the large collection of semi-structured data.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	-
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	-

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITCT14	Core 14: Advanced Computer Networks	Batch	2020-2022
			Semester	III
Hours/week	4		Credits	4

COURSE OBJECTIVES

To enable the students

- To learn the basic computer network technology.
- To enhance the knowledge about digital transmission methods.
- To Identify the different types of network topologies.
- To learn different protocols used for transmission of data in various layers.
- To learn about user networks interfaces and protocols of ATM and its operations and maintenance.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the Data Communications System and its components.
CO2	Describe routing and congestion in network layer with routing algorithms
CO3	master the terminology and concepts of the OSI reference models and TCP/IP
CO4	Illustrate applications of Computer Network capabilities, selection and usage for various sectors of user community.
CO5	Explain the concepts of ATM and its Methods.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	✓	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	✓	-	-	-	-	-	✓

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITCT15	Core 15: Internet of Things	Batch	2020-2022
			Semester	III
Hours/week	4		Credits	3

Objectives: To enable the students

- To know the basics of data mining and warehousing.
- To Understand various techniques in data mining.
- To learn about architecture of data warehouse and its applications

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the concept of IoT.
CO2	Analyze various protocols for IoT.
CO3	Analyze applications of IoT in real time scenario
CO4	Explain the data analytics and cloud in the context of IoT
CO5	Explain the concepts of SOCRADES.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	-	-	-	-	-	-	-
CO3	-	✓	✓	-	-	-	-	-	-	-	-	-
CO4	-	✓	✓	-	-	-	-	-	-	-	-	-
CO5	-	✓	✓	-	-	-	-	-	-	-	-	-

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITCT16	Core 16: Web Programming	Batch	2020-2022
			Semester	III
Hours/week	4		Credits	3

COURSE OBJECTIVES:

- To learn about the basic concepts of various computer and internet.
- To learn about the concepts of cascading style sheet.
- To learn about the Java Scripts and XML.
- To learn about the various web servers.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Gain deep understanding of the use and implementation of HTML 5 tags.
CO2	Understand the CSS, the role of JavaScript in web page creation.
CO3	Program, access, and manipulate data through the adoption of accepted standards, mark-up languages, client-side programming, and server-side programming
CO4	Predict the need of various web servers
CO5	To know about the client side scripting.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	✓	-	✓	-	-	-	✓
CO2	-	✓	✓		-	✓	-	✓	-	✓	-	✓
CO3	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓
CO5	-	✓	✓	-	-	✓	-	✓	-	✓	-	✓

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITCP17	Core 17: Network - Practical	Batch	2020-2022
			Semester	III
Hrs/week	4		Credits	3

COURSE OBJECTIVES

To enable the students

- To learn the digital networks & internet protocols
- To have a clear idea about various functions of TCP and UDP.
- To learn about user networks interfaces and protocols of on B-ISDN and its operations and maintenance.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Demonstrate LAN and WAN protocol behavior using Modern Tools.
CO2	Analyze data flow between peer to peer in an IP network using Application, Transport and Network Layer Protocols.
CO3	Demonstrate basic configuration of switches and routers.
CO4	Develop Client - Server architectures and prototypes by the means of correct standards and technology
CO5	Demonstrate basic configuration of TCP and UDP Sockets.

MAPPING WITH PROGRAMME OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITCP18	Core 18: Web Programming - Practical	Batch Semester	2020-2022 III
Hrs/week	4		Credits	3

COURSE OBJECTIVE: To enable the students to

- Design the concept and usages of web based programming techniques.
- Develop the HTML documents using JavaScript and CSS.
- Use of different types of server side Applications
- Design and implement user interactive dynamic web based applications.
- Implement XML Namespace & PHP Programming.

COURSE OUTCOMES (CO)

At the end of the practical session, students should be well-versed in

CO Number	CO Statement
CO1	Demonstrating the concept and usages of web based programming techniques.
CO2	Demonstrating HTML Programs using JavaScript and CSS.
CO3	Demonstrating the different types of server side Applications
CO4	Designing interactive dynamic web based applications.
CO5	Demonstrating XML Namespace & PHP Programming.

MAPPING WITH PROGRAMME OUTCOMES

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITET2A	Elective 2 : Soft Computing	Batch	2020-2022
Hours/week	4		Semester	III
			Credits	4

COURSE OBJECTIVES

- To enable the Students to learn the basic concepts of Soft Computing.
- To become familiar with various techniques like neural networks, genetic algorithms and fuzzy systems.
- To apply soft computing techniques to solve problems.
- To Understand the basic principles and working of Genetic Algorithms.

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Apply suitable soft computing techniques for various applications.
CO2	Integrate various soft computing techniques for complex problems.
CO3	Explain the basic principles and working of Genetic Algorithms.
CO4	Summarize the basic Fuzzy Principles and fuzzy logic.
CO5	Describe the concept of neural networks and its applications.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	✓	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	✓	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	✓	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	✓	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	✓	✓

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITET2B	Elective 2 : Embedded System	Batch	2020-2022
Hrs/week	4		Semester	III
			Credits	4

COURSE OBJECTIVES

- To learn the architecture and programming of ARM processor.
- To become familiar with the embedded computing platform design and analysis.
- To get thorough knowledge in interfacing concepts
- To design an embedded system and to develop programs

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Describe the architecture and programming of ARM processor
CO2	Explain the Concepts of peripherals and interfacing of sensors.
CO3	Capable of using the system design techniques to develop firmware
CO4	Illustrate the code for constructing a system
CO5	Explain the concepts of embedded systems.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	✓	-	✓	-	-	✓	-
CO2	-	✓	-	✓	✓	-	-	✓	✓	✓	✓	-
CO3	-	-	-	-	-	✓	✓		-	-	-	-
CO4	-	-	✓	-	✓	-	✓		✓	✓	-	-
CO5	-	-	-	✓	✓	-	-	✓	-	-	✓	-

SEMESTER III

Programme Code	M.Sc IT	Programme Title	Master of Science (Information Technology)	
Course Code	20P3ITET2C	Elective 2:Cloud Computing	Batch	2020-2022
Hrs/week	4		Semester	II
			Credits	4

COURSE OBJECTIVES

To enable the students

- To understand security implications in cloud computing
- To understand the Cloud computing architectures, applications and challenges and learn about various cloud storages

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the security implications in cloud computing
CO2	Analyse the trade-offs inherent in cloud computing
CO3	Identify the architecture and infrastructure of cloud computing, including Service models and Cloud Access.
CO4	Explain the core issues of cloud computing such as security, privacy, and interoperability
CO5	Identify problems, and explain, analyze, and evaluate various cloud computing solutions

MAPPING WITH PROGRAMME OUTCOMES

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓

SEMESTER III

Programme Code	**M.Sc IT**	**Programme Title**	**Master of Science (Information Technology)**	
Course Code	**20P3ITET2D**	**Elective 2:Software Quality Assurance**	**Batch**	**2020-2022**
Hrs/week	**4**		**Semester**	**II**
			Credits	**4**

COURSE OBJECTIVES

To enable the students

- To understand the importance and types of testing
- To understand the test strategy and execution and test automation

COURSE OUTCOMES (CO)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the software Development Life Cycles
CO2	Analyse the various types of testing
CO3	Explain the types of test cases
CO4	Explain the test Strategy And Execution
CO5	Identify the testing automation

MAPPING WITH PROGRAMME OUTCOMES

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	-
CO2	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO3	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO4	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓
CO5	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓

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M.Com.(Computer Applications)

PROGRAMME EDUCATIONAL OUTCOME (PEO),
PROGRAMME OUTCOMES (PO),
COURSE OUTCOMES (CO)

M.Com.(Computer Applications)

For the Students Admitted in the Academic year 2020-2021.

Programme Educational Objectives (PEO)

The Graduates of Commerce with computer application would be

PEO1: Occupy a decent position in Banking, Finance and Outsourcing industries.

PEO2: Become successful entrepreneurs.

PEO3: Contribute to the community development and environmental protection.

Programme Outcomes (PO)
After completion of three years of study, our M.Com CA Graduates will be able to :

PO1: Exhibit proficiency in oral and written communication.

PO2: Acquire the knowledge of accounting, business, taxation and financial management.

PO3: Provide Technical Skills (such as Word processing, Spread sheet, Visualbasic, gambas 3,Tally) in Auditing and Business Process Services by updating their knowledge with the upcoming new techniques.

PO4: Apply their knowledge gained in multidisciplinary subjects like Mathematics and Statistics, Economics,etc for effectively solving complex problems.

PO5: Prepare to take up any challenging task

PO6: Apply technical skills in Analyzing, synthesizing and evaluating information to reach an answer or conclusion for complex business problems.

PO7: Work individually or as a team with responsibility to Function in a multidisciplinary team.

PO8: Carrying out the task assigned by the industries with professional ethics and at the same time with the consent for well being of the society.

PO9: Aware of one's own weaknesses and strengths, emotions and the way to control emotions to maintain good interpersonal relationships.

PO10: Undertake entrepreneurship as a desirable and feasible career option.

PO11: Extend the services of the department for the betterment of the society and environmental protection.

PO12: Learn continuously for updating new knowledge and technologies in the field of commerce and computer applications.

SEMESTER – I

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P1CCCT02	Core 2 : Economics for Decision Making	Batch	2020-2022
			Semester	I
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To enable the students understand about concepts, tools and principles of managerial Economics.
- To make the students understand about cost and production analysis.
- To provide adequate knowledge on business cycle, national income and fiscal policy.

COURSE OUTCOMES(COs)

On successful completion of the course, the student will be able to

CO Number	CO Statement
CO1	Explain the basic concepts of economics.
CO2	Have thorough knowledge on the economic behavior of the society.
CO3	Apply the knowledge of cost and output relationship in BEP Analysis.
CO4	Describes about the Prodcution anlaysis.
CO5	Overview on Pricing Methods.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – I

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P1CCCT03	Core 3 : Database Management System	Batch	2020-2022
			Semester	I
Hrs/Week	5Hrs		Credits	3

COURSE OBJECTIVES:

- To make the students to understand the architectural concepts and structural embedded SQL.
- To impart knowledge on networking and data base operations.
- To promote knowledge on relational data structure.

COURSE OUTCOMES(COs):

On successful completion of the course, students will be able to:

CO Number	CO Statement
CO1	Describe data models and schemes in DBMS.
CO2	Explain the features of database and Relational database.
CO3	Apply SQL- the standard language of relational databases.
CO4	Elucidate the functional dependencies and design of the database.
CO5	List out the concepts of Transaction and Query processing.

MAPPING WITH PROGRAMME OUTCOMES

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO2	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO3	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO4	-	✓	✓	-	-	-	-	-	-	-	-	✓
CO5	-	✓	✓	-	-	-	-	-	-	-	-	✓

SEMESTER – I

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course Code	20P1CCCT04	Core 4 : Cost Accounting	Batch	2020-2022
			Semester	I
Hrs/Week	6 Hrs		Credits	4

COURSE OBJECTIVES

- To provide adequate knowledge on Management Accounting Practice.
- To enable the students to understand the methods of wage payment.
- To acquaint the students, the management accounting techniques that facilitate managerial decision making.

COURSE OUTCOMES(COs)

On successful completion of the course, the student will be able to

CO Number	Course Outcome
CO1	Prepare the cost sheet, Tender and Quotation
CO2	Calculate the Stock Levels and Pricing of Material Issues.
CO3	Calculation of labour turnover and Overhead distribution summary.
CO4	Computation of Overheads and Reconciliation of cost and financial accounts.
CO5	Prepare the Job Costing ,Contract Costing and Process Costing

MAPPING WITH PROGRAMME OUTCOME

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – I

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P1CCCP05	Core 5: Oracle - Practical	Batch	2020-2022
			Semester	I
Hrs/Week	4Hrs		Credits	2

COURSE OUTCOMES

On successful completion of the course, students will be able to:

CO Number	CO Statement
CO1	Elaborate about a good formal foundation on the relational model of data.
CO2	Formulate queries using SQL commands.
CO3	Design and implement a database scheme for given problem.
CO4	Formulate solutions to a broad range of query and data update problems.
CO5	Design different views of tables and apply embedded and nested queries.

MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO2	-	-	✓	-	-	✓	-	-	-	-	-	-
CO3	-	-	✓	-	-	✓	-	-	-	-	-	✓
CO4	-	-	✓	-	-	✓	-	-	-	-	-	-
CO5	-	-	✓	-	-	✓	-	-	-	✓	-	-

SEMESTER I

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course Code	20P1CDCT01	Career Development Course 1: Teaching & Research Aptitude-I	Batch	2020-2022
			Semester	I
Hrs/week	2 Hours		Credits	2

COURSE OBJECTIVES

To enable the Students to clear the Qualified Examinations like NET/ SET

COURSE OUTCOMES

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Outline about Teaching Methods.
CO2	Describe about the Learning Environment and Higher Learning.
CO3	Explain about the Teacher Support System.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CCCT06	Core 6 : Human Resource Management	Batch	2020-2022
			Semester	II
Hrs/Week	4 Hrs		Credits	3

COURSE OBJECTIVES

- To understand about job and role analysis, techniques and sources of recruitment and recruitment practices in India.
- To learn about Job evaluation, career development and performance appraisal.
- To know about the employees remuneration, incentive and benefits.
- To know about employee welfare , Motivation and Social Security.
- To impart knowledge on Labour Relation and Bargaining.

COURSE OUTCOMES(COs)

On successful completion of the course, students should be able to:

CO Number	CO Statement
CO1	Explain the existing theories and practice in the field of HRM.
CO2	Use methods of job analysis information for effectively recruiting the candidates.
CO3	Describe the role of human resource manager in an organization.
CO4	Interpret about measuring and monitoring Employee's performance.
CO5	Explain application of conflict resolution skills in real time situations.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER II

Programme Code	M.Com(CA)	Programme Title	Master of Commerce with Computer Applications	
Course Code	20P2CCCT07	Core 7 : Management Accounting	Batch	2020-2022
			Semester	II
Hrs/week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To develop an understanding of the Management Accounting and Financial Statement Analysis.
- To make the students to understand about the Accounting ratios.
- To know about fund flow statement and cash flow analysis .
- To make the students to know how to find out marginal costing.
- To provide knowledge about budgeting & budgetary control, its importance and preparation of various types of budgets.
- To impart knowledge on marginal costing and Cost Volume Profit and Analysis.

COURSE OUTCOMES(COs)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Overview on Management Accounting.
CO2	Determination Ratio Analysis.
CO3	Calculation of Fund flow and Cash Flow anlaysis.
CO4	Acquire a knowledge on Budget and standard costing.
CO5	Determination of Marginal Costing

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CCCT08	Core 8 : Higher Corporate Accounting	Batch	2020-2022
			Semester	II
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

- To Know about the Procedure of Amalgamation of Companies and Purchase Of Companies.
- To know about the preparation of final accounts of Banking Companies.
- To know about the preparation of final accounts of Insurance Companies
- To know about the double accounts system followed in Electricity Companies.
- To know about the preparation of accounts of Holding Companies.

COURSE OUTCOMES(COs)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain the accounting procedures followed by companies.
CO2	Prepare profit and loss accounts and balance sheet of banking and insurance companies.
CO3	Use the double accounting systems while preparing profit and loss of Electricity companies.
CO4	Prepare accounts of holding company and elucidate the procedures involved in liquidation.
CO5	Describe the concepts of Human resource Accounting, inflation accounting and accounting standards.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CCCT09	Core 9 : Object Oriented Programming with C++	Batch	2020-2022
			Semester	II
Hrs/Week	4Hrs		Credits	3

COURSE OBJECTIVES

- To make the students understand about elements of OOPs with C++.
- To provide knowledge on Data types and Arrays.
- To enable the students to construct an Application with C++.
- To know about operator overloading and inheritance.
- To impart knowledge on Virtual functions and Polymorphism.

COURSE OUTCOMES(COs)

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Explain how C++ improves C with object-oriented features.
CO2	Design C++ classes for code reuse.
CO3	Present the concept of copy constructors and class member functions.
CO4	Elaborate the concept of data abstraction, encapsulation and overload functions.
CO5	Write a program using containment and inheritance in C++.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12
CO1	-	•	-	-	-	-	-	-	-	-	-	•
CO2	-	•	-	-	-	-	-	-	-	-	-	•
CO3	-	•	-	-	-	-	-	-	-	-	-	•
CO4	-	•	-	-	-	-	-	-	-	-	-	•
CO5	-	•	-	-	-	-	-	-	-	-	-	•

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CCCT10	Core 10: Financial Markets and Institutions	Batch	2020-2022
			Semester	II
Hrs/Week	4 Hrs		Credits	3

COURSE OBJECTIVES

- To enable the students to understand about the various Financial Markets.
- To make the students to know about the capital market and Foreign Exchange Market.
- To know about Financial Service Institutions.
- To know about various credit rating agencies of India.
- To provide knowledge about EXIM and NABARD.

COURSE OUTCOMES(COs)

On successful completion of the course, students should be able to:

CO Number	CO Statement
CO1	Give in detail about the different market structures.
CO2	Describe the various functions of new issue market and foreign exchange market.
CO3	Enumerate the roles of regulatory authority and financial service Institutions.
CO4	Recall the role of credit rating agencies in India and NSDL.
CO5	Evaluate the performance of various financial Institutions.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CCCP11	Core 11: C++ & Tally Practical	Batch	2020-2022
			Semester	II
Hrs/Week	4Hrs		Credits	2

COURSE OUTCOMES

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Write, compile and execute programs using appropriate predefined functions in C++.
CO2	Implement the object oriented concepts in developing application using C++.
CO3	Develop applications using Inheritance and polymorphism in C++.
CO4	Apply practical skills in preparing financial and inventory statement.
CO5	Calculate ratios and cash flow and fund flow statement.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – II

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P2CDCT02	Career Development Course 2 : Teaching & Research Aptitude-II	Batch	2020-2022
			Semester	II
Hrs/Week	2 Hrs		Credits	2

COURSE OBJECTIVES

To enable the Students to clear the Qualified Examinations like NET/ SET

COURSE OUTCOMES (CO)

In Successful Completion of the course the students should be able to

CO Number	CO Statement
CO1	Enhance and develop confidence, skills related to the creative writing
CO2	Solve problems on Mathematical Reasoning, Aptitude and Logical Reasoning
CO3	Explain about Data Interpretation and classification of Data.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	-	-	-	-	-	-	-	-	✓
CO2	✓	-	-	-	-	-	-	-	-	-	-	✓
CO3	✓	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCCT12	Core 12 : Business Research Methods	Batch	2020-2022
			Semester	III
Hrs/Week	6Hrs		Credits	5

COURSE OBJECTIVES

- To know what is business research and its types, understand how to formulate research problems.
- To know about various methods of sampling and data collection.
- To know about various measurement and scaling techniques, common statistical tools used in research and steps in drafting reports.
- To know how to use large and small tests of significance.
- To make the students know how to interpret the results of analysis and write reports.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Develop a conceptual understanding of research framework.
CO2	Demonstrate how and when to use different sampling methods and techniques.
CO3	Explain about Various Scaling techniques and computation of Measures of Central tendency and Dispersion .
CO4	Analyse the data by using statistical Tools.
CO5	Explain how to on Interpret the results and prepare a Report.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCCT13	Core 13 : Visual Basic	Batch	2020-2022
			Semester	III
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

To make the students to know clearly about

- Integrated Development Environment.
- Intrinsic Controls and Array Controls.
- Variables,Arrays and VB libraries.
- Databases and Database Programming.
- Tables and Reports.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Design, create, build, and debug Visual Basic applications.
CO2	Design Visual Basic classes for code reuse.
CO3	Explore Visual Basic‘s Integrated Development Environment (IDE).
CO4	Implement syntax rules in Visual Basic programs.
CO5	Explain variables and data types used in program development.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO 4	PO5	PO 6	PO7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCCT14	Core 14 : Direct Taxes	Batch	2020-2022
			Semester	III
Hrs/Week	6 Hrs		Credits	6

COURSE OBJECTIVES

- ✓ To make the students understand recent amendments in Income Tax.
- ✓ To make them know how to compute taxable income.
- ✓ To Calculate the income from House Property , Business and Profession.
- ✓ To Learn about the concept of Capital Gain.
- ✓ To provide adequate knowledge on tax filing.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Examine the basic concepts of Tax and assess the residentail status.
CO2	Computation of the taxable portions of Salaries.
CO3	Calculation of House Property ,Business or Profession.
CO4	Examine the capital gains and income from other sources
CO5	Apply and Practice the computation of Total income and E-Filing.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCCP15	Core 15 : Visual Basic and VB Script -Practical	Batch	2020-2022
			Semester	III
Hrs/Week	4 Hrs		Credits	3

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explore Visual Basic‘s Integrated Development Environment (IDE).
CO2	Implement syntax rules in Visual Basic programs.
CO3	Apply arithmetic operations for displaying numeric output.
CO4	Write and apply loop structures to perform repetitive tasks.
CO5	Write and apply procedures, sub-procedures, and functions to create manageable code.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course Code	20P3CDCT03	Career Development Course 3: Commerce Paper I	Batch	2020-2022
			Semester	III
Hrs/week	2 Hours		Credits	2

COURSE OBJECTIVES

To enable the Students to clear the Qualified Examinations like NET/ SET

COURSE OUTCOMES

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Outline on Functions of Management, Organizational Structure, Delegation of authority ,motivation and Leadership.
CO2	Explain about the types of Banks and RBI 's functions and roles.
CO3	Describes about the Different Market Structure and various financial Institutions.
CO4	Overview about the Types of Insurance ,IRDA and its regulatory framework.
CO5	Explains about Scope ,Importance ,Modes of Entry ,Theories of International Business.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCET1A	Elective 1 : Indian Stock Exchanges	Batch	2020-2022
			Semester	III
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

To make the students to know clearly about

- Meaning,scope ,function of stock exchanges and about trading in stock exchanges.
- Stock exchange regulatory frame work and the concerned acts and rules.
- Listing,legal provisions,speculation and investor protection.
- SEBI and its function and working.
- Internet stock trading E-IPO and E-commerce acts.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explain the Functions of Stock Exchange and its Trading.
CO2	Outline on Regulations of Stock Exchanges.
CO3	Describe about the Steps in Listing.
CO4	Enumerate the Functions of SEBI.
CO5	Overview on Internet Stock Trading and its procedures.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCET1B	Elective 1 : International Business	Batch	2020-2022
			Semester	III
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

- ✓ To understand clearly about the concepts of International Business and Globalization Strategies.
- ✓ To Know fully about International Trading Environment.
- ✓ To understand clearly about the International Finance and foreign exchange rates.
- ✓ To enable the students to know about the BOP and MNC.
- ✓ To make the students to understand about International Organisationsal structure and Environmental issuse.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explain about the Various International Business Concepts and Globalization Strategies.
CO2	Appraise international institutions involved in promotion of global business
CO3	Describe about the International Finance and Foreign Exchange.
CO4	Demonstrate the knowledge about BOP ,MNC and International Technology transfer.
CO5	Explain about International Organisation structure, Environmental & Labour issues.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – III

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCET1C	Elective 1 : Organizational Behaviour	Batch	2020-2022
			Semester	III
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

- ✓ To make the students to understand about Nature of Organisational behaviour and its various approaches.
- ✓ To develop an understanding of the concept of Personality ,Learning & Perception.
- ✓ To Know about the various theories in Motivation.
- ✓ To Provide knowledge about Interpersonal ,Group and Inter Group behaviour.
- ✓ To make the students to know about the concept of team work & Leadership Theories.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explain the Concept of Nature of Organisational behaviour and various therioes related to Organisational behaviour.
CO2	Explain the Nature of Human behavior inthe organisational context.
CO3	Acquire knowledge on attitude change and Motivational pattern in the Organisation.
CO4	Describes about the Reward system ,Qulaity of Life & Job satisfaction.
CO5	Explain about the various leadership styles and development.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	-	-	-	-	✓
CO2	-	-	-	-	-	-	-	-	-	-	-	✓
CO3	-	-	-	-	-	-	-	-	-	-	-	✓
CO4	-	-	-	-	-	-	-	-	-	-	-	✓
CO5	-	-	-	-	-	-	-	-	-	-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCCT16	Core 16 : Business Environment	Batch	2020-2022
			Semester	IV
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVES

- ✓ To make him know about the concept ,significance, nature and types of Businsess Environment.
- ✓ To make him understand clearly about the Financial and Labour Environment of the
- ✓ Business.
- ✓ To provide an insight into Social, Cultural and political Environment of Business.
- ✓ To clearly understand about Business Ethics.
- ✓ To Provide knowledge on Ethics in Human Resource Management.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explain about the Economic Environment ,Economic Planning and Economic Policies.
CO2	Describe about Financial and Labour Environment.
CO3	Explain about Social, cultural and Political Environment in the Business.
CO4	Explain about Business Ethics its importance and objectives ethical responsibility of Employer and Employee.
CO5	Explain about Ethics in HRM,Human Quality Development and Employee rights and responsibilities.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P3CCCT17	Core 17 : Financial Management	Batch	2020-2022
			Semester	IV
Hrs/Week	5 Hrs		Credits	4

COURSE OBJECTIVE

- To know about what is financial management and Capital Budgeting.
- To know fully about the various types of Cost of Capital.
- To understand clearly about theories of Capital Structure.
- To understand dividend theories and dividend policy.
- To understand the concepts working capital managements and its computations.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Understand the various techniques used in the investment decision.
CO2	Determine the Cost of Capital and Financial Leverage.
CO3	Computation of Capital Structure with its theories.
CO4	Analyse the dividend decision and dividend policy of the corporate.
CO5	Describe the components of working capital.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO 9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-		-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCCT18	Core 18 : Java Programming and HTML	Batch	2020-2022
			Semester	IV
Hrs/Week	4 Hrs		Credits	3

COURSE OBJECTIVES

To make the students to know clearly about

- ✓ Object based and oriented programming,history,feature and structure of java programming.
- ✓ Classes and object,java tokens and data types.
- ✓ Array,strings,inheritance and difference between overriding and over loading methods.
- ✓ Static and dynamic web pages history and structure of html document.
- ✓ Images in html.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Understanding of the principles and practice of object oriented analysis and design in the construction of robust, maintainable programs which satisfy their requirements.
CO2	Ability to implement, compile, test and run Java programs comprising more than one class, to address a particular software problem.
CO3	Demonstrate the principles of object oriented programming.
CO4	Analyze a web project and identify its elements and attributes in comparison to traditional projects.
CO5	Understand, analyze and create web pages using HTML.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course Code	20P4CDCT04	Career Development Course 4: Commerce Paper II	Batch	2020-2022
			Semester	IV
Hrs/week	2 Hours		Credits	2

COURSE OBJECTIVES

To enable the Students to clear the Qualified Examinations like NET/ SET

COURSE OUTCOMES

On successful completion of the course, students should be able to

CO Number	CO Statement
CO1	Overview on Financial, Partnership and Corporate Accounting concepts.
CO2	Acquire knowledge on various types of costing
CO3	Determination of Ratio Analysis and Inflation, Environmental and International accounting standards
CO4	Describe cost of capital, capital structure, capital budgeting and working capital management
CO5	Gain knowledge in various legal aspects in business.

MAPPING WITH PROGRAMME OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCET2A	Elective 2 : Auditing	Batch	2020-2022
			Semester	IV
Hrs/Week	4 Hrs		Credits	4

COURSE OBJECTIVES

- ✓ To understand the fundamental concepts of auditing, its advantages and recent trends in auditing.
- ✓ To know clearly about internal control, internal check and internal audit.
- ✓ To learn about vouching & its importance and various types of vouchers.
- ✓ To make the students to know about how verification and valuation of assets and liabilities is made and the role of auditors in it.
- ✓ To know about how the company auditor is appointed and his duties and responsibilities.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	To explain about what is audit, its types and recent trends.
CO2	The students must be able to conduct internal audit.
CO3	Prepare different types of vouchers.
CO4	Explain how verification and valuation of assets and liabilities are made and the role of auditor in it.
CO5	Explain how the audit of various institutions is made by a company auditor and the preparation of audit report.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCET2B	Elective 2: Banking and Insurance	Batch	2020-2022
			Semester	IV
Hrs/Week	4 Hrs		Credits	4

COURSE OBJECTIVES

- ✓ To know the importance of banking in economic development & functions of commercial banks
- ✓ To know fully about the negotiable instruments.
- ✓ To know about meaning, purpose, need of insurance, IRDA Act and recent development.
- ✓ To Know about the life insurance policies, calculation of premium and surrender value.
- ✓ To know about general insurance and its types.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Explain meaning, definition , types and importance of banking and about about relationship between banker and customer, opening and closure of accounts & bill of exchange.
CO2	Explain about the various negotiable instruments and its statutory protection.
CO3	Explain the meaning, need of insurance, IRDA Act and recent development in the insurance sector.
CO4	Explain the classification of life insurance policies and how to calculate premium and surrender value in policies, Prinicples and practices of Motor Insurance.
CO5	Explain the types of general insurance and to calculate the claim of recovery and explains about fire insurance and marine insurance.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

SEMESTER – IV

Programmme Code	M.COM CA	Programme Title	Master of Commerce with Computer Applications	
Course code	20P4CCET2C	Elective 2 : E-Commerce and Information Technology	Batch	2020-2022
			Semester	IV
Hrs/Week	4 Hrs		Credits	4

COURSE OBJECTIVES

To make the students to know clearly about

- Framework , Classification and applications of E-Commerce.
- Benefits, Legal security and Privacy issues of Electronic Data Interchange.
- Network security and firewalls, data and message security and web and security.
- Consumer oriented electronic Commerce and Mercantile Models.
- Types of Electronic payment systems, risks involved, E-advertising ,E-Marketing and Carrier
- Opportunities in electronic Commerce.

COURSE OUTCOMES(COs)

On successful completion of the course, the student should be able to

CO Number	CO Statement
CO1	Understand about the Concepts of E-Commerce.
CO2	Explain about Benefits, and Privacy issues of Electronic Data Interchange.
CO3	Describes about the Network Security.
CO4	Discuss about the Consumer Oriented applications
CO5	Outline about Electronic payment system.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	-	-	-	-	-	-	-	✓
CO2	-	✓	-	-	-	-	-	-	-	-	-	✓
CO3	-	✓	-	-	-	-	-	-	-	-	-	✓
CO4	-	✓	-	-	-	-	-	-	-	-	-	✓
CO5	-	✓	-	-	-	-	-	-	-	-	-	✓

Kovai Kalaimagal College of Arts and Science
Re- Accredited with 'A' Grade by NAAC
(An Autonomous Institute, Affiliated to Bharathiar University)
Vellimalaipattinam,Narasipuram Post, Thondamuthur Via,
Coimbatore - 641 109.

M.Com.(International Business)

**PROGRAMME EDUCATIONAL OUTCOME (PEO), PROGRAMME OUTCOMES (PO),
COURSE OUTCOMES (CO)**

M.Com.(IB)

For the Students Admitted in the Academic year 2020-2021.

PROGRAMME EDUCATIONAL OBJECTIVES AND PROGRAMME OUTCOMES PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO1: Graduates will occupy middle level management position in EXIM industries.

PEO2: Graduates would execute their tasks with professionalism and ethics.

PEO3: Graduates would be socially responsible having concern for the welfare of the nearby community.

PROGRAMME OUTCOMES (PO)

PO1: Exhibit proficiency in business related communication (written and oral).

PO2: Acquire Adequate Knowledge of preparation of various documents, procedures that help them to understand the key aspects and get involved in EXIM business.

PO3: Select and apply appropriate techniques, resources, modern Management and information technology tools to cope up with recent trends.

PO4: Acquire Adequate Knowledge in interdisciplinary subjects such as marketing, finance and accounting so as to make use of them for understanding complex concepts.

PO5: Develop self-confidence and have positive attitude through various programmes.

PO6: Analyse current conditions in developing emerging markets and evaluate present and future opportunities and risks in international business activities. Provide solutions in complex situation through out of box thinking.

PO7: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

PO8: Able to execute a task with professionalism and professional ethics without scarifying concern for social welfare.

PO9: Able to identify one's own strength and weakness and to be emotionally balanced to take right decisions at complex situation.

PO10: Graduates would always have commitment towards the society to which they belong and to have interest in the protection of environment.

PO11: Recognize the need for and have the preparation and ability to engage in independent and life - long learning in the broadest context of technological change.

PO12: Acquire entrepreneurial traits to start and manage their own EXIM business successfully.

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1IBCT01	Core 1: Global Business Environment	Batch	2020-2022
			Semester	I
Hrs/week:	4 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Needs for environmental adjustment and analysing the international marketing environment.
- Physical environment of the nation like topography, climate, infrastructure ,foreign investmentetc…,
- Cultural environment like language, asthetics, religious, altitudes andvalues.
- Legal environment like legal system, international legal disputes, commercial lawand objectives and functions ofWTO.
- Environmental problems , environmental policy and protection ofenvironment..

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the environmental adjustment and analysing the international marketing environment.
CO2	Explain the Physical environment of the nation like topography, climate, infrastructure , foreign investment etc…,
CO3	Elucidate Cultural environment like language, asthetics, religious, altitudes and values.
CO4	Elucidate Legal environment like legal system, international legal disputes, commercial law and objectives and functions of WTO.
CO5	Explain the Environmental problems , environmental policy and protection of environment.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	-	-	-	-	-	√	-	√	-	-
CO2	-	√	-	-	-	-	-	√	-	√	√	-
CO3	-	√	√	√	-	-	√	-	√	-	√	-
CO4	-	√	-	√	-	√	√	√	-	-	√	-

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1IBCT02	Core 2: International Marketing Management	Batch	2020-2022
			Semester	I
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Definition features, benefits, difficulties, barriers in international marketing and futureof globalmarketing.
- Customer value and satisfaction and delivering the same, implementing total quality marketing.
- International market selection process and market segmentation.
- Taking proper international marketingdiscussion
- Managing direct and online marketing and challenges of online marketing.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain Definition features, benefits, difficulties, barriers in international marketing and future of global marketing.
CO2	Discuss about Customer value and satisfaction and delivering the same, implementing total quality marketing.
CO3	Demonstrate International market selection process and market segmentation .
CO4	Explain proper international marketing discussion
CO5	Elucidate Managing direct and online marketing and challenges of online marketing

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	-	√	-	-	-	-	√	√	-	-
CO2	-	√	-	√	√	-	-	-	√	√	√	-
CO3	-	√	√	√	-	-	-	-	√	√	-	√
CO4	√	√	√									

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1IBCT03	Core 3: Cargo Management	Batch	2020-2022
			Semester	I
Hrs/week:	6 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Concepts origin, nature and classification of cargo, types of transportation, cargo marketing and marineinsurance.
- Cargo handling, operations, systems, classification and services and also customclearance process.
- Air cargo, its types, duties and responsibilities of cargoagents.
- Aircrafts loading procedures, cargo booking rating and charges and preparation of airway bills.
- Dry cargo, containers, types and chartering, liquid cargo and itstransportation

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Concepts origin ,nature and classification of cargo, types of transportation, cargo marketing and marine insurance.
CO2	Explain Cargo handling, operations, systems, classification and services and also custom clearance process.
CO3	Elucidate Air cargo, its types, duties and responsibilities of cargo agents.
CO4	Elucidate Aircrafts loading procedures, cargo booking rating and charges and preparation of airway bills.
CO5	Discuss about Dry cargo, containers, types and chartering, liquid cargo and its transportation

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	√	-	-	-	-	-	√	-	√
CO2	-	√	-	-	-	-	-	-	-	√	-	√
CO3	-	√	√	-	-	-	-	-	-	√	-	√

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1IBCT04	Core 4: Foreign Exchange Management	Batch	2020-2022
			Semester	I
Hrs/week:	6 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Administration of foreign exchange, FEMA regulations, authorized dealersand multinationalbanking.
- Functions of foreign exchangemarkets.
- External and internal techniques of foreign exchange exposuremanagement.
- Inter bank deals, managing foreign exchange reserves and devaluation.
- Currency future and optionsmarket.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Administration of foreign exchange, FEMA regulations, authorized dealers and multinational banking.
CO2	Elaborate Functions of foreign exchange markets.
CO3	Differenciate External and internal techniques of foreign exchange exposure management.
CO4	Explain the Inter bank deals, managing foreign exchange reserves and devaluation .
CO5	Elaborate Currency future and options market.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	√	√	√	-	-	√	-	-	-	√	√	-
CO2	-	√	√	-	-	√	-	√	-	-	√	-
CO3	√	√	√	-	-	√	-	-	-	√	-	-

CO4	√	-	√	-	-	√	√	-	-	√	√	-

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1CDCT01	Career Development Course 1: Teaching& Research Aptitude-I	Batch	2020-2022
			Semester	I
Hrs/week:	2 Hours		Credits	2

COURSE OBJECTIVES

On successful completion of this course, the students should

- To enable the Students to clear Qualification Examinations like NET/SET

COURSE OUTCOMES (CO)

On successful completion of the course, students will be able to

CO Number	CO Statement
CO1	Explain about Teaching Aptitude,Teaching Support System and Evaluation Systems.
CO2	Describes about Research ,Methods , Types and Thesis Writing.
CO3	Explain about the Information and Communication Technology**.**
CO4	Describes about Environmental issues and Environmental Protection Act.
CO5	Explain about Higher Education System**.**

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	√	√	-	-	-	-	-	-	-
CO2	-	-	-	√	√	-	-	-	-	-	-	-
CO3	-	-	-	√	√	-	-	-	-	-	-	-
CO4	-	-	-	√	√	-	-	-	-	-	-	-
C05	-	-	-	√	√	-	-	-	-	-	-	-

SEMESTER II

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P2IBCT05	Core 5: Export Import Finance	Batch	2020-2022
			Semester	II
Hrs/week:	4 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Export finance, terms and modes of international payment, and financingof export creditneeds.
- Pre shipment and post shipment credit finance and theircategories.
- Import finance and its types, payments methods forimports.
- Long term finance, deferred payment and approvalbodies.
- Financial agencies available inIndia.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain Export finance , terms and modes of international payment, and financing of export credit needs.
CO2	Differentiate Pre shipment and post shipment credit finance and their categories.
CO3	Elaborate Import finance and its types, payments methods for imports.
CO4	Explain the Long term finance, deferred payment and approval bodies.
CO5	Discuss the Financial agencies available in India.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO 1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO8	PO 9	PO1 0	PO1 1	PO1 2
CO1	-	√	√	√	-	-	-	-	-	-	-	√
CO2	-	√	-	√	-	-	-	-	-	√	-	√
CO3	-	√	√	√	-	-	-	-	-	√	-	√

SEMESTER II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2IBCT06**	**Core 6: Logistics and Supply chain Management**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Definition of logistics management, types of logistics automation andoutsourcing, concept in logistics and physicaldistribution
- Warehousing and storage management, transportation management and distribution channel management
- Nature, concepts, components, need and participants in supplychain
- Supply chain performance drivers, systems and values of supplychain
- Supply chain and business strategy, supply chain relationship andcertification

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Definition of logistics management, types of logistics automation and outsourcing, concept in logistics and physical distribution
CO2	Discuss about Warehousing and storage management, transportation management and distribution channel management
CO3	Explain the Nature, concepts, components, need and participants in supply chain
CO4	Explain the Supply chain performance drivers, systems and values of supply chain
CO5	Elaborate Supply chain and business strategy, supply chain relationship and Certification

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 1 2
CO1	-	√	√	-	-	-	-	√	-	√	-	-
CO2	-	√	√	-	-	√	-	-	-	√	√	√
CO3	-	√	√	√	-	√	√	-	-	√	-	-
CO4	-	√	√	-	-	√	-	-	-	√	-	-

SEMESTER II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2IBCT07**	**Core 7: Accounting and Finance**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**6 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course, the students should knowabout

- International accounting standards capital and revenue, expenditureand receipts, depreciation and its methods ofcalculation.
- Ratio analysis and its use and limitations, fund flow and cash flow analysisand their uses andlimitations
- Marginal costing, cost volume profit and break even analysis and determination ofsales mix
- Objectives of cost accounting, preparation of cost sheet, methods and techniquesof costing
- Budgeting and budgetary control, preparation of different budgets and steps in budgetarycontrol

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the International accounting standards capital and revenue, expenditure and receipts, depreciation and its methods of calculation.
CO2	Discuss the Ratio analysis and its use and limitations, fund flow and cash flow analysis and their uses and limitations
CO3	Elucidate Marginal costing, cost volume profit and break even analysis and determination of sales mix
CO4	Explain the Objectives of cost accounting, preparation of cost sheet, methods and techniques of costing
CO5	Differenciate Budgeting and budgetary control, preparation of different budgets and steps in budgetary control

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	√	-	√	√	√	√
CO2	-	√	√	√	-	√	√	-	√	√	√	√
CO3	-	√	√	√	-	√	√	-	√	√	√	√
CO4	√	√	√	√	-	√	√	-	√	√	√	√

SEMESTER II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2IBCT08**	**Core 8 : EXIM Documentation**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**4 Hrs**		**Credits**	**3**

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Types of export and import, export licensing procedure and formalitiesand deemed export and itsbenefits.
- Export house and trading house salient features and benefits of free tradezones. And the norms governing theirestablishment.
- Various methods by which import trade can becontrolled.
- Warehousing in connection with imports, special specialties for NRI'S exportand import documentation, customs procedures and customsduty.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain Types of export and import, export licensing procedure and formalities and deemed export and its benefits.
CO2	Differentiate Export house and trading house salient features and benefits of free trade zones. And the norms governing their establishment.
CO3	Explain the various methods by which import trade can be controlled.
CO4	Elaborate Warehousing in connection with imports, special specialties for NRI'S export and import documentation, customs procedures and customs duty.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	-	-	-	-	-	√	√	-	-
CO2	-	√	-	-	-	-	-	-	√	√	-	-
CO3	-	√	√	-	-	-	-	-	√	√	-	-

SEMESTER II

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P2IBCP09	Core 9: EXIM Practical	Batch	2020-2022
			Semester	II
Hrs/week:	3 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know

- Preparation of a letter of credit, bill of exchange, certificate of origin and bill ofentry.
- Preparation of a packing list, bill of lading, commercial invoice and exportdeclaration form.
- Finding the details of minor and major ports in India, route map of panamacanal details of canal oriented sea routes and famous three airroutes.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the letter of credit, bill of exchange, certificate of origin and bill of entry.
CO2	Explain the packing list, bill of lading, commercial invoice and export declaration form.
CO3	Discuss the details of minor and major ports in India, route map of panama canal details of canal oriented sea routes and famous three air routes

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO 1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	-	√	√	√	-	-	-	√	√	√	-	-
CO2	-	√	√	√	-	-	-	√	√	√	-	-
CO3	-	√	√	√	-	-	-	√	√	√	-	-

SEMESTER II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2CDCT02**	**Career Development Course 2: Teaching & ResearchAptitude-II**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**2 Hours**		**Credits**	**2**

COURSE OBJECTIVES

- To enable the Students to clear the Qualification Examinations like NET/SET

COURSE OUTCOMES (CO)

On successful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Enhance and develop confidence, skills related to the creative writing
CO2	Solve problems on Mathematical Reasoning, Aptitude and Logical Reasoning
CO3	Explain about Data Interpretation and classification of Data.

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO2	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO3	✓	-	-	✓	-	-	-	-	-	-	-	

SEMESTER III

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P3IBCT10	Core 10:Research Methods For International Business	Batch	2020-2022
			Semester	III
Hrs/week:	6 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Various types of research, defining a problem setting objectives and hypothesis of the research on the preparation of researchdesign.
- Various methods of data collection, reliability and validity of the data collectionand classification, tabulation ofdata.
- Understand about the measurement and scaling technique ,determination of sample size and various sampling methods and theirapplications.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the various types of research, selection and formulation of the research problem setting objectives and formulating hypothesis .
CO2	Explain various methods of data collection and explain how to test the reliability validity and collect the data.
CO3	Explain about the various measuring and scaling techniques, sampling methods andthe types of population for which they can be applied.
CO4	Apply various test of significance to draw inferences about the various hypothesisformulated and draft a final research report.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	✓	✓	✓	-	-	-	✓	-	-	✓
CO2	-	✓	-	-	✓	-	-	✓	✓	-	✓	-
CO3	-	-	-	-	✓	-	-	-	✓	-	-	
CO4	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-

SEMESTER III

Programme code :	M.Com IB	Programme Title	Masterof Commerce (IB)	
Course code:	20P3IBCT11	Core 11: Global Strategic Management	Batch	2020-2022
			Semester	III
Hrs/week:	5 Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- To understand the concept and role of strategy, various approaches to astrategic decision making ,role of board of directors and global s strategymanagement.
- Understand how to analyse global environment operating environment internal environment and constructing analysis of strategyview.
- Know about growth stability and retrenchment strategies. Also know about how to evaluate strategyalternatives.
- Know about various strategy issues and alternatives and about outsourcingstrategy..

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the process of strategy management and concept of strategy fit leverage and stretch.
CO2	Explain how to analyse global operating and internal environment
CO3	Describe about growth stability and retrenchment strategy and how to evaluatestrategic alternatives
CO4	Explain the multi country and global strategy and also about the various outsourcingstrategies

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	✓	-	✓	-	✓	-	-	✓
CO2	✓	-	-	-	✓	-	✓	✓	✓	-	✓	-

CO3	-	-	-	-	✓	-	✓	-	✓	-	-	
CO4	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	-

SEMESTER III

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P3IBCP12	Core 12: Advertisement - Practical	Batch	2020-2022
			Semester	III
Hrs/week:	5Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about how to promote the product through advertisement:

- Understand how to createAdds
- Understand how to prepare the adds to attract thecustomers
- Understand how to promote theadds
- Understand how to approach the society by giving theadds

COURSE OUTCOMES

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Create adds
CO2	Prepare the adds to attract the customers
CO3	Promote the adds
CO4	Approach the society by giving the adds

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	-	-	✓	-	-	-	-	✓
CO2	✓	-	✓	-	✓	-	✓	✓	-	-	✓	-
CO3	-	-	✓	-	✓	-	✓	-		-	-	
CO4	-	✓	✓	-	✓	✓	-	✓	-	✓	✓	-

SEMESTER III

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P3IBCT13	Core 13: International Human Resource Management	Batch	2020-2022
			Semester	III
Hrs/week:	5Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- To know clearly about domestic and international HRM activities, issues andpractices
- To know about global staffing practices and selection techniques
- To know about global training international performance management andperformance appraisedsystem
- To understand global compensation practices and structure of theinternational compensationpackages
- To know about international industrial relation functions and role of trade unions in MNC's

COURSE OUTCOMES (CO)

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain about international human resource management and the practices followed in various ASIAN countries
CO2	Describe about various types of international human resource management, global staffing practices and the selection techniques
CO3	Elaborate about the performance management and the performance appraisal system
CO4	Explain about compensation practices followed in various countries and about thestructure of the compensation package
CO5	Tell about international industrial relation, functions and role of trade union, concerns of trade unions in MNC's

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	✓	-	✓	-	✓	-	-	✓
CO2	✓	-	✓	-	-	-	✓	✓	-	-	✓	✓
CO3	-	-	✓	-	-	-	-	-		-	-	✓
CO4	-	✓	✓	-	-	✓	-	✓	-	✓	✓	✓

SEMESTER III

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P3CDCT03	Career Development Course 3:Paper –III	Batch	2020-2022
			Semester	I
Hrs/week:	2 Hours		Credits	2

COURSE OBJECTIVES

- To enable the Students to clear the Qualification Examinations like NET/SET

COURSE OUTCOMES (CO)

Onsuccessful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain about of business environmentand Economic policiesthe practices followed in variousASIAN countries
CO2	Describe about Basic accounting principles and sources of finance and scopes of economics
CO3	Enhance and develop confidence, skills related to the Report writing

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO2	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO3	✓	-	-	✓	-	-	-	-	-	-	-	

SEMESTER IV

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P4IBCT14	Core 14: International Business Relations	Batch	2020-2022
			Semester	IV
Hrs/week:	4Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- International business relation in the background of the countries foreignpolicy
- Clearly understand about the nature and content of international law and the balanceof power
- Evolution of international organization, regional grouping and economicgrouping
- Foreign policy of India and India's relations with othercountries

COURSE OUTCOMES (CO)

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain the foreign policy and its approach and the determinants in this background explain the international relations and politics
CO2	Describe the nature and content of international law and devices for maintaining balance of power
CO3	Explain how do you understand international organization, regional grouping andeconomic grouping
CO4	Discuss about India's foreign policy and its relations with other countries

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	✓	✓	-	✓	-	✓	-	-	✓
CO2	-	-	✓	-	-	-	✓	✓	-	-	✓	✓
CO3	-	-	-	-	-	-	-	-		-	-	✓

CO4	✓	✓	-	-	-	✓	-	✓	-	✓	✓	✓

SEMESTER IV

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P4IBCT15	Core 15: Economics in Global Trade	Batch	2020-2022
			Semester	IV
Hrs/week:	4Hrs		Credits	3

COURSE OBJECTIVES

On successful completion of this course, the students should

- Understand about the internal and international trade and various theoriesconcerning internationaltrade
- Know about gains from international trade balance of tradebilateralism
- Understand fully about international movements, international investment andregional monetarysystem
- Know about formulation of foreign economic policy international liquidityand international economicdevelopment.

COURSE OUTCOMES (CO)

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain about internal and international trade and also various theories concerning international trade
CO2	Explain the gains that can be made from international trade and balance of trade in Indian perspective
CO3	Discuss on international movements and international investments
CO4	Tell about foreign economic policies on the international economic development

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	✓	-	✓	-	✓	-	-	✓
CO2	✓	-	✓	-	-	-	✓	✓	-	-	✓	✓
CO3	-	-	-	-	-	-	-	-		-	-	✓
CO4	-	✓	-	-	-	✓	-	✓	-	✓	✓	✓

SEMESTER IV

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P4IBCT16	Core 16: Global Financial Management	Batch	2020-2022
			Semester	IV
Hrs/week:	5Hrs		Credits	5

COURSE OBJECTIVES

On successful completion of this course, the students should

- Understand about meaning and objectives of financial management ,international money, capital and bondmarkets
- Know about international monetary and financialenvironment
- Know about capital budgeting, derivatives, international banking on the roleof international institutional and globalfinance
- Know about international financing demonetisations and its impact and digitalization of financialservices.

COURSE OUTCOMES (CO)

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain meaning and objectives of financial management, international money, capital, bond, and currency markets
CO2	Describe about international monetary and financial environment
CO3	Explain about capital budgeting, derivatives and international banking
CO4	Discuss about international financing,demonetisations and digitalization of financial services

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	✓	✓	✓	✓	-	✓	-	-	✓
CO2	-	-	✓	-	-	✓	✓	✓	-	-	✓	-
CO3	-	-	-	-	-	✓	-	-		-	-	-
CO4	-	✓	-	-	-	✓	-	✓	-	✓	✓	-

SEMESTER IV

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P4CDCT04	Career Development Course 4:Paper –IV	Batch	2020-2022
			Semester	IV
Hrs/week:	2 Hours		Credits	2

COURSE OBJECTIVES

- To enable the Students to clear the Qualification Examinations like NET/SET

COURSE OUTCOMES (CO)

Onsuccessful Completion of the course the students will be able to

CO Number	CO Statement
CO1	Enhance and develop confidence, skills related to HRM and functions of HRM
CO2	Explain about Financial Institutions and insurances
CO3	Enhance to solve International Taxation and Explain about Legal Aspects of Business

MAPPING WITH PROGRAMME OUTCOMES

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO2	✓	-	-	✓	-	-	-	-	-	-	-	✓
CO3	✓	-	-	✓	-	-	-	-	-	-	-	

ELECTIVE PAPERS

SEMESTER I

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P1IBET1A**	**Elective 1: Management of Multinational corporation**	**Batch**	**2020 – 2022**
			Semester	**I**
Hrs/week:	**5Hrs**		**Credits**	**Hrs/week:**

COURSE OBJECTIVES

On successful completion of this course, the students should

- Trends challenges and opportunities in internationalmanagement.
- Growth and development ofMNC's.
- Importance, scope and various methods of comparative management. Managementstyles practices in othercountries
- Creating strategy for international business ethics and social responsibility ofbusiness.
- Internationalization of Indian business firm and their operation abroad. Acquisitionsand mergers, joint ventures and other international strategicalliances

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain about Trends challenges and opportunities in international management.
CO2	Growth and development of MNC's.
CO3	Explain the Importance, scope and various methods of comparative management. Management styles practices in other countries
CO4	Explain to Creating strategy for international business ethics and social responsibility of business.
CO5	Discuss about Internationalization of Indian business firm and their operation abroad. Acquisitions and mergers, joint ventures and other international strategic alliances

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	-	-	-	-	-	√	-	√	-	√
CO2	-	√	-	-	-	√	-	√	-	√	-	√
CO3	-	√	√	-	-	√	√	√	-	√	-	√
CO4	-	√	√	-	-	-	-	√	-	√	-	√

SEMESTER I

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P1IBET1B	Elective 1: Financial Markets and Institutions	Batch	2020-2022
			Semester	I
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Various financial markets and capitalmarkets
- Various financial services institutions such as CCIL, CRISIL, and Financialservices.
- Functions of various agencies such as ICRA, OTCEI, NSDL, and STCI.
- Functions and working of financial institutions, EXIM bank andNABARD.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes.

CO Number	CO Statement
CO1	Explain the Various financial markets and capital markets
CO2	Describe the various financial services institutions such as CCIL, CRISIL, and Financial services.
CO3	Explain the Functions of various agencies such as ICRA, OTCEI, NSDL, and STCI.
CO4	Explain the Functions and working structure of financial institutions, EXIM bank andNABARD.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	-	-	-	√	√	-	-
CO2	-	√	√	-	-	-	-	-	√	√	-	-
CO3	-	√	√	√	-	-	-	-	√	√	-	-

SEMESTER: I

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P1IBET1C**	**Elective 1 : Principles of Services Marketing.**	**Batch**	**2020-2022**
			Semester	**I**
Hrs/week:	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course, the students should

- Meaning , Importance, classification, characteristics and features ofservices.
- Concept, and significance of services marketing and ma nagging demand and supply in servicesbusiness.
- Marketing mix of selected services such as, personal care, entertainment, education,and communication.
- Key services of marketing such as, banking, insurance, transport, tourism hotel,hospital etc…,
- Measuring service quality, causes for problems in service quality and steps to be takenin improving servicequality

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Meaning , Importance, classification, characteristics and features of services.
CO2	Explain the Concept, and significance of services marketing and ma nagging demand and supply in services business.
CO3	Explain the Marketing mix of selected services such as, personal care, entertainment, education, and communication.
CO4	Explain the Key services of marketing such as, banking, insurance, transport, tourism hotel, hospital etc…,
CO5	Explain the Measuring service quality, causes for problems in service quality and steps to be taken in improving service quality.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	√	-	√	√	√	√
CO2	-	√	√	√	-	√	√	-	√	√	√	√
CO3	-	√	√	√	-	√	√	-	√	√	√	√
CO4	√	√	√	√	-	√	√	-	√	√	√	√

SEMESTER II

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P2IBET2A	Elective 2 :Port Operations and Management	Batch	2020-2022
			Semester	II
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Concept, functions, authorities and their role and types of ports, managementof dryports.
- Important consideration for planning and designing aport.
- The intermodal connection and portwarehouses.
- Managing and operating aport.
- Methods of measuring performance of a port and itsproductivity.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Concept, functions, authorities and their role and types of ports, management of dry ports.
CO2	Discuss the important considerations for planning and designing a port.
CO3	Explain the intermodal connection and port warehouses structures
CO4	Elaborate the management and operations of aport.
CO5	Explain the methods of measuring performance of a port and its productivity

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO 7	PO8	PO 9	PO10	PO11	PO12
CO1	-	√	√	-	-	√	-	-	-	√	-	√
CO2	-	√	√	√	-	√	-	-	-	√	-	√
CO3	√	√	√	√	-	√	-	-	-	√	-	√

SEMESTER II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2IBET2B**	**Elective 2: Indian stock Market**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Meaning and functions of stock exchange, origin and growth of stock exchange inIndia.
- Various acts relating to Indian stock exchanges, profile of stock exchanges such as,BSE, NSE.
- Details about listing, Delisting, trading and speculations.
- Process of listing in primary market and secondarymarkets.

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Meaning and functions of stock exchange, origin and growth of stock exchange in India.
CO2	Discuss about Various acts relating to Indian stock exchanges
CO3	Describe the procedure for listing, Delisting, trading and speculations of the stock Market
CO4	Explain the process of listing in primary market and secondary markets.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	√	-	-	√	-	-
CO2	-	√	√	√		√	√	-	-	√	-	√
CO3	-	√	√	√	-	√	-	-	-	√	-	√
CO4		√	√	√								

SEMESTER: II

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P2IBET2C**	**Elective 2: Marketing of Financial Services**	**Batch**	**2020-2022**
			Semester	**II**
Hrs/week:	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course, the students should know about

- Various financial markets in India and theirfunctions,
- Types advantages and disadvantages of plasticcards.
- Types of insurance companies, policies and the need ofinsurance.
- Real estate markets in India, mechanism and advantages of securitisation inIndia

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain the Various financial markets in India and their functions,
CO2	Describe the advantages and disadvantages of plastic cards.
CO3	Describe the various insurance policies and the need of insurance in India
CO4	Elaborate about the Real markets in India, mechanism and advantages of securitisation in India.

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	√	√	√	-	√	√	-	√	√	√	√
CO2	-	√	√	√	-	√	√	-	√	√	√	√
CO3	-	√	√	√	-	√	√	-	√	√	√	√

SEMESTER III

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P3IBET3A	Elective : 3 International Logistics Management	Batch	2020-2022
			Semester	IV
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should

- Know about meaning , concept and objectives oflogistics
- Know about multi-modal transportation and the freightstructure
- Understand aboutwarehousing
- Understand about inventory management, packaging and packing and preparation ofvarious documents
- Know about role of intermediaries general structure role of contract shippingindustries

COURSE OUTCOMES (CO)

On the successful completion of the course the students will be able to

CO Number	CO Statement
CO1	Explain the meaning concepts, and objectives of logistics
CO2	Explain about multi-modal transportation and practices followed in fixing the freight structure
CO3	Explain about warehousing and handling of material
CO4	Differentiate between packaging and list the documents to be prepared in logistics
CO5	Explain the role of intermediaries and also the structure of shipping industry and itsboard of content

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	✓	-	✓	-	✓	✓	✓	-	✓	✓	-	✓
CO2	-	✓	✓	✓	-	-	✓	-	✓	✓	✓	✓
CO3	✓	-	-	-		✓	-	-		-	-	
CO4	-	✓	-	-	-	-	-	✓	-	✓	✓	-

SEMESTER IV

Programme code :	**M.Com IB**	**Programme Title**	**Master of Commerce (IB)**	
Course code:	**20P4IBET4A**	**Elective : 4 Traveland TourismManagement**	**Batch**	**2020-2022**
			Semester	**IV**

Hrs/week:	**5 Hrs**		**Credits**	**4**

COURSE OBJECTIVES

On successful completion of this course, the students should

- To fully understand concepts, definitions, types and forms and components ofTourism
- Know about domestic and internationalTourism
- Know about demand and supply of Tourism, means to improve demand, method of measuring demand and emerging trends of Indian Tourism
- Know about the impacts of tourism and status of Tourism inIndia
- Know about various international Tourism institutions and organisations and their rolein promoting internationalmovement

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	To Discuss about concepts, definitions, types and forms and components of Tourism
CO2	Differentiate about domestic and international Tourism

CO3	Explain about demand and supply of Tourism, means to improve demand, method of measuring demand and emerging trends of Indian Tourism
CO4	Elucidate the impacts of tourism and status of Tourism in India
CO5	Discuss about various international Tourism institutions and organisations and their role in promoting international movement

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	✓	-	✓	✓	✓	-	-	✓	-	✓
CO2	-	✓	✓	✓	-	-	✓	-	✓	✓	✓	✓
CO3	-	-	-	-		✓	-	-		-	-	-
CO4	✓	-	✓	✓	-	-	-	✓	-	✓	✓	-

SEMESTER IV

Programme code :	M.Com IB	Programme Title	Master of Commerce (IB)	
Course code:	20P41BET4C	Elective : 4 Travel and Hospitality Services	Batch	2020-2022
			Semester	IV
Hrs/week:	5 Hrs		Credits	4

COURSE OBJECTIVES

On successful completion of this course, the students should

- Know about concept, nature, significance, classifications and elements ofTourism
- Understand how Tourism is being marketed in India and what about market segmentationfor tourism.
- Know about marketing mix for tourism andhotels
- Know about how to classify hotels on the basis of variouscharacteristics..

COURSE OUTCOMES (CO)

On successful completion of the course students will be able to achieve the following outcomes

CO Number	CO Statement
CO1	Explain about concept, nature, significance, classifications and elements of Tourism
CO2	Elucidate how Tourism is being marketed in India and about market segmentation for tourism.
CO3	Describe the different marketing mix for tourism andhotels
CO4	Discuss about how to classify hotels on the basis of various characteristics

MAPPING WITH PROGRAMME OUTCOMES

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	✓	-	-	✓	✓	✓	-	-	✓	-	✓
CO2	✓	✓	✓	✓	-	-	-	-	✓	✓	✓	✓
CO3		-	-	-		✓		-		-	-	-
CO4	-	✓	✓	✓	-	-	-	✓	-	✓	✓	✓