

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

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

PROGRAMME OUTCOMES (PO) OF PGDCA

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

Programme Outcomes

After completion of one year of study, our PGDCA students will be able to :

PO1: Develop to understand the concepts of key areas in computer science.

PO2: Acquire adequate knowledge in latest technologies to solve problems in the areas of computer applications with self confidence & hence to make the students to think & act positively.

PO3: Motivating the students to have a linking for learning so as to be upto date in the recent developments & hence to make them lifelong learners.

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POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

PROGRAMME OUTCOMES (PO) OF PGDCA

For the Students Admitted in the Academic year 2018-2019.

Programme Outcomes

After completion of one year of study, our PGDCA students will be able to :

PO1: Develop to understand the concepts of key areas in computer science.

PO2: Acquire adequate knowledge in latest technologies to solve problems in the areas of computer applications with self confidence & hence to make the students to think & act positively.

PO3: Motivating the students to have a linking for learning so as to be upto date in the recent developments & hence to make them lifelong learners.

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COURSE OUTCOMES (CO) OF POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

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

SEMESTER I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	20D1CACT01	Core 1: C Programming	Batch	2020 - 2021
Hrs/week	5 Hrs		Semester	1
			Credits	5

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

SEMESTER – I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	20D1CACT02	Core 2: Digital Fundamentals And Computer Architecture	Batch	2020 - 2021
Hrs/week	5 Hrs		Semester	1
			Credits	4

COURSE OBJECTIVE

On Completion Of this Course,

- To Understand the various numbering System & Conversion 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.

SEMESTER – I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D1CACT03	Core 3: Data Structures	Batch	2020 - 2021
Hrs/week:	6 Hrs		Semester	1
			Credits	5

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.

SEMESTER - I

Programme Code	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code	20D1CACT04	CORE 4: Web Technology	Batch	2020 - 2021
Hrs/week	4		Semester	1
			Credits	4

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

SEMESTER - I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	20D1CACP05	Title : Core 5 : C Programming - Practical	Batch	2020 - 2021
			Semester	1
Hrs/week	6 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 implementation 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

SEMESTER - II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	20D2CACT06	Core 6 : VISUAL PROGRAMMING	Batch	2020 - 2021
Hrs/week	6 Hrs		Semester	II
			Credits	4

Course Objectives :

To enable the students

- To have knowledge on Visual Basic Forms and Programming Concepts
- To knowledge about with VB programming concepts like VB Environment, Control fundamentals, Menu, Dialog Boxes & data files.
- To enhance their knowledge on application development concepts and programming with Visual Basic.

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

SEMESTER – II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	20D2CACT07	Core 7 : RELATIONAL DATABASE MANAGEMENT SYSTEM	Batch	2020 - 2021
			Semester	II
Hrs/week	6 Hrs		Credits	5

Course Objective:

To enable the students

- To have knowledge on RDBMS concepts and Programming with Oracle.
- To learn ORACLE 9i, working with tables concepts with examples
- To enhance their Knowledge on PL/SQL, Composite data types.

COURSE OUTCOMES (CO)

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

CO Number	O 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.

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CACT08	CORE 8 : C++ PROGRAMMING	Batch:	2020 - 2021
Hrs/week:	6 Hrs		Semester:	2
			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.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CACT09	CORE 9 : OPERATING SYSTEM	Batch	2020 - 2021
Hrs/Week	5 Hrs		Semester	II
			Credits	5

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 Number	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

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CACP10	CORE 10 : C++ & VISUAL PROGRAMMING PRACTICAL	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	3

COURSE OBJECTIVES:

- To familiarize the students with language environment and to develop the programs for solving the problems using function overloading, constructors and object.
- To develop applications using Graphical User Interface tools.
- To understand the design concepts.
- To design and build database systems and demonstrate their competence

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Implement the concepts of object oriented programming.
CO2	Apply operator overloading, Inheritance concepts
CO3	Understand the concepts of Visual Basic
CO4	Learn the advantages of Controls in VB
CO5	Design and develop the event- driven applications using Visual Basic framework.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D1CAET1A	ELECTIVE 1 : COMPUTER NETWORKS	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To understand the principles of Computer Networks
- To have knowledge on Networking and Technologies.
- To enhance their knowledge on Network concepts like Layers, Wireless Concepts, Transmission and Security.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Independently understand basic computer network technology.
CO2	Identify the different types of network topologies and protocols.
CO3	Enumerate the layers of the OSI model and TCP/IP.
CO4	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D1CAET1B	ELECTIVE 1 : SOFTWARE ENGINEERING	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.
- To learn the fundamental SDLC concepts.
- To enhance their knowledge on various S/W engineering concepts like Cost Estimation, Software Requirements, Implementation & verification and validation Techniques.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand the activities during the project scheduling of any software application.
CO2	Learn the risk management activities and the resource allocation for the projects
CO3	.Able to create reliable, replicable cost estimation that links to the requirements of project planning and managing

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D1CAET1C	ELECTIVE 1 : SOFTWARE PROJECT MANAGEMENT	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have clear idea about Software Project and its Management.
- To know various techniques of estimation of software effort and about activity planning.
- To make them know about nature of resources and their allocation and about managing people and organizing .
- To know how to ensure software quality.

COURSE OUTCOMES (CO)

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

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	Apply project management concepts through working in a group as team leader or active team member on an IT project

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CAET2A	ELECTIVE 2: SOFTWARE TESTING	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software testing concepts.
- To enhance their knowledge in the concepts and principles of Software Development Life Cycle Model, White Box Testing, and Black Box Testing.
- Enable the student to judge the quality of software.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	List a range of different software testing techniques and strategies and be able to
CO2	Distinguish characteristics of structural testing methods
CO3	Demonstrate the integration testing which aims to uncover interaction and
CO4	Discuss about the functional and system testing methods
CO5	Demonstrate various issues for object oriented testing with planning, Management, Execution and Reporting.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CAET2B	ELECTIVE 2 : NETWORK SECURITY	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To impart their knowledge on cryptography and network security.
- Enable the students to know the levels of network security & security tools.
- To learn about the principles of encryption algorithm & conversational & public key cryptography

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand 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	Understand the various methods of password management and protocols to maintain system security
CO5	Survey the security concepts exposed to original research in network security

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	4

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 (CO)

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

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of E-Commerce
CO2	Understand the knowledge of Business Strategy
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	4

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 (CO)

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

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of E-Commerce
CO2	Understand the knowledge of Business Strategy
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	20D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2020 - 2021
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable students

- To have knowledge on concepts of e-Commerce.
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For the Students Admitted in the
Academic year 2019-2020.

SEMESTER I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	19D1CACT01	Core 1: C Programming	Batch	2019-2020
Hrs/week	5 Hrs		Semester	1
			Credits	5

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

SEMESTER – I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	19D1CACT02	Core 2: Digital Fundamentals And Computer Architecture	Batch	2019-2020
Hrs/week	5 Hrs		Semester	1
			Credits	4

COURSE OBJECTIVE

On Completion Of this Course,

- To Understand the various numbering System & Conversion 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.

SEMESTER – I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D1CACT03	Core 3: Data Structures	Batch	2019-2020
Hrs/week:	6 Hrs		Semester	1
			Credits	5

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.

SEMESTER - I

Programme Code	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code	19D1CACT04	CORE 4: Web Technology	Batch	2019-2020
Hrs/week	4		Semester	1
			Credits	4

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

SEMESTER - I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	19D1CACP05	Title : Core 5 : C Programming - Practical	Batch	2019-2020
Hrs/week	6 Hrs		Semester	1
			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 implementation 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

SEMESTER - II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	19D2CACT06	Core 6 : VISUAL PROGRAMMING	Batch	2019-2020
Hrs/week	6 Hrs		Semester	II
			Credits	4

Course Objectives :

To enable the students

- To have knowledge on Visual Basic Forms and Programming Concepts
- To knowledge about with VB programming concepts like VB Environment, Control fundamentals, Menu, Dialog Boxes & data files.
- To enhance their knowledge on application development concepts and programming with Visual Basic.

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

SEMESTER – II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	19D2CACT07	Core 7 : RELATIONAL DATABASE MANAGEMENT SYSTEM	Batch	2019-2020
			Semester	II
Hrs/week	6 Hrs		Credits	5

Course Objective:

To enable the students

- To have knowledge on RDBMS concepts and Programming with Oracle.
- To learn ORACLE 9i, working with tables concepts with examples
- To enhance their Knowledge on PL/SQL, Composite data types.

COURSE OUTCOMES (CO)

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

CO Number	O 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.

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CACT08	CORE 8 : C++ PROGRAMMING	Batch:	2019-2020
Hrs/week:	6 Hrs		Semester:	2
			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.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CACT09	CORE 9 : OPERATING SYSTEM	Batch	2019-2020
Hrs/Week	5 Hrs		Semester	II
			Credits	5

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 Number	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

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CACP10	CORE 10 : C++ & VISUAL PROGRAMMING PRACTICAL	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	II
			Credits	3

COURSE OBJECTIVES:

- To familiarize the students with language environment and to develop the programs for solving the problems using function overloading, constructors and object.
- To develop applications using Graphical User Interface tools.
- To understand the design concepts.
- To design and build database systems and demonstrate their competence

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Implement the concepts of object oriented programming.
CO2	Apply operator overloading, Inheritance concepts
CO3	Understand the concepts of Visual Basic
CO4	Learn the advantages of Controls in VB
CO5	Design and develop the event- driven applications using Visual Basic framework.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D1CAET1A	ELECTIVE 1 : COMPUTER NETWORKS	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To understand the principles of Computer Networks
- To have knowledge on Networking and Technologies.
- To enhance their knowledge on Network concepts like Layers, Wireless Concepts, Transmission and Security.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Independently understand basic computer network technology.
CO2	Identify the different types of network topologies and protocols.
CO3	Enumerate the layers of the OSI model and TCP/IP.
CO4	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D1CAET1B	ELECTIVE 1 : SOFTWARE ENGINEERING	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.
- To learn the fundamental SDLC concepts.
- To enhance their knowledge on various S/W engineering concepts like Cost Estimation, Software Requirements, Implementation & verification and validation Techniques.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand the activities during the project scheduling of any software application.
CO2	Learn the risk management activities and the resource allocation for the projects
CO3	.Able to create reliable, replicable cost estimation that links to the requirements of project planning and managing

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D1CAET1C	ELECTIVE 1 : SOFTWARE PROJECT MANAGEMENT	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have clear idea about Software Project and its Management.
- To know various techniques of estimation of software effort and about activity planning.
- To make them know about nature of resources and their allocation and about managing people and organizing .
- To know how to ensure software quality.

COURSE OUTCOMES (CO)

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

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	Apply project management concepts through working in a group as team leader or active team member on an IT project

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CAET2A	ELECTIVE 2: SOFTWARE TESTING	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software testing concepts.
- To enhance their knowledge in the concepts and principles of Software Development Life Cycle Model, White Box Testing, and Black Box Testing.
- Enable the student to judge the quality of software.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	List a range of different software testing techniques and strategies and be able to
CO2	Distinguish characteristics of structural testing methods
CO3	Demonstrate the integration testing which aims to uncover interaction and
CO4	Discuss about the functional and system testing methods
CO5	Demonstrate various issues for object oriented testing with planning, Management, Execution and Reporting.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CAET2B	ELECTIVE 2 : NETWORK SECURITY	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To impart their knowledge on cryptography and network security.
- Enable the students to know the levels of network security & security tools.
- To learn about the principles of encryption algorithm & conversational & public key cryptography

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand 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	Understand the various methods of password management and protocols to maintain system security
CO5	Survey the security concepts exposed to original research in network security

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	II
			Credits	4

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 (CO)

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

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of E-Commerce
CO2	Understand the knowledge of Business Strategy
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	19D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2019-2020
Hrs/Week	6 Hrs		Semester	II
			Credits	4

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 (CO)

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

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of E-Commerce
CO2	Understand the knowledge of Business Strategy
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems

KOVAI KALAIMAGAL COLLEGE OF ARTS AND SCIENCE

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Re-Accredited with 'A' Grade by NAAC
Narasipuram, Coimbatore -641109

COURSE OUTCOMES (CO) OF POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

For the Students Admitted in the
Academic year 2018-2019.

SEMESTER I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	18D1CACT01	Core 1: C Programming	Batch	2018-2019
Hrs/week	5 Hrs		Semester	1
			Credits	5

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

SEMESTER – I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	18D1CACT02	Core 2: Digital Fundamentals And Computer Architecture	Batch	2018-2019
Hrs/week	5 Hrs		Semester	1
			Credits	4

COURSE OBJECTIVE

On Completion Of this Course,

- To Understand the various numbering System & Conversion 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.

SEMESTER – I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D1CACT03	Core 3: Data Structures	Batch	2018-2019
Hrs/week:	6 Hrs		Semester	1
			Credits	5

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.

SEMESTER - I

Programme Code	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code	18D1CACT04	CORE 4: Web Technology	Batch	2018-2019
Hrs/week	4		Semester	1
			Credits	4

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

SEMESTER - I

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	18D1CACP05	Title : Core 5 : C Programming - Practical	Batch	2018-2019
			Semester	1
Hrs/week	6 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 implementation 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

SEMESTER - II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	18D2CACT06	Core 6 : VISUAL PROGRAMMING	Batch	2018-2019
Hrs/week	6 Hrs		Semester	II
			Credits	4

Course Objectives :

To enable the students

- To have knowledge on Visual Basic Forms and Programming Concepts
- To knowledge about with VB programming concepts like VB Environment, Control fundamentals, Menu, Dialog Boxes & data files.
- To enhance their knowledge on application development concepts and programming with Visual Basic.

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

SEMESTER – II

Programme Code :	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course Code :	18D2CACT07	Core 7 : RELATIONAL DATABASE MANAGEMENT SYSTEM	Batch	2018-2019
			Semester	II
Hrs/week	6 Hrs		Credits	5

Course Objective:

To enable the students

- To have knowledge on RDBMS concepts and Programming with Oracle.
- To learn ORACLE 9i, working with tables concepts with examples
- To enhance their Knowledge on PL/SQL, Composite data types.

COURSE OUTCOMES (CO)

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

CO Number	O 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.

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CACT08	CORE 8 : C++ PROGRAMMING	Batch:	2018-2019
Hrs/week:	6 Hrs		Semester:	2
			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.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CACT09	CORE 9 : OPERATING SYSTEM	Batch	2018-2019
Hrs/Week	5 Hrs		Semester	II
			Credits	5

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 Number	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

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CACP10	CORE 10 : C++ & VISUAL PROGRAMMING PRACTICAL	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	II
			Credits	3

COURSE OBJECTIVES:

- To familiarize the students with language environment and to develop the programs for solving the problems using function overloading, constructors and object.
- To develop applications using Graphical User Interface tools.
- To understand the design concepts.
- To design and build database systems and demonstrate their competence

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Implement the concepts of object oriented programming.
CO2	Apply operator overloading, Inheritance concepts
CO3	Understand the concepts of Visual Basic
CO4	Learn the advantages of Controls in VB
CO5	Design and develop the event- driven applications using Visual Basic framework.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D1CAET1A	ELECTIVE 1 : COMPUTER NETWORKS	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To understand the principles of Computer Networks
- To have knowledge on Networking and Technologies.
- To enhance their knowledge on Network concepts like Layers, Wireless Concepts, Transmission and Security.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Independently understand basic computer network technology.
CO2	Identify the different types of network topologies and protocols.
CO3	Enumerate the layers of the OSI model and TCP/IP.
CO4	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D1CAET1B	ELECTIVE 1 : SOFTWARE ENGINEERING	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.
- To learn the fundamental SDLC concepts.
- To enhance their knowledge on various S/W engineering concepts like Cost Estimation, Software Requirements, Implementation & verification and validation Techniques.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand the activities during the project scheduling of any software application.
CO2	Learn the risk management activities and the resource allocation for the projects
CO3	.Able to create reliable, replicable cost estimation that links to the requirements of project planning and managing

SEMESTER - I

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D1CAET1C	ELECTIVE 1 : SOFTWARE PROJECT MANAGEMENT	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	I
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have clear idea about Software Project and its Management.
- To know various techniques of estimation of software effort and about activity planning.
- To make them know about nature of resources and their allocation and about managing people and organizing .
- To know how to ensure software quality.

COURSE OUTCOMES (CO)

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

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	Apply project management concepts through working in a group as team leader or active team member on an IT project

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CAET2A	ELECTIVE 2: SOFTWARE TESTING	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To have knowledge on Software testing concepts.
- To enhance their knowledge in the concepts and principles of Software Development Life Cycle Model, White Box Testing, and Black Box Testing.
- Enable the student to judge the quality of software.

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	List a range of different software testing techniques and strategies and be able to
CO2	Distinguish characteristics of structural testing methods
CO3	Demonstrate the integration testing which aims to uncover interaction and
CO4	Discuss about the functional and system testing methods
CO5	Demonstrate various issues for object oriented testing with planning, Management, Execution and Reporting.

SEMESTER – II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CAET2B	ELECTIVE 2 : NETWORK SECURITY	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	II
			Credits	4

COURSE OBJECTIVES:

To enable the students

- To impart their knowledge on cryptography and network security.
- Enable the students to know the levels of network security & security tools.
- To learn about the principles of encryption algorithm & conversational & public key cryptography

COURSE OUTCOMES (CO)

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

CO Number	CO Statement
CO1	Understand 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	Understand the various methods of password management and protocols to maintain system security
CO5	Survey the security concepts exposed to original research in network security

SEMESTER - II

Programme code:	PGDCA	Programme Title	Post Graduate Diploma in Computer Applications	
Course code:	18D2CAET2C	ELECTIVE 2 : E-Commerce	Batch	2018-2019
Hrs/Week	6 Hrs		Semester	II
			Credits	4

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 (CO)

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

CO Number	CO Statement
CO1	Understand the basic concepts and technologies used in the field of E-Commerce
CO2	Understand the knowledge of Business Strategy
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems