

PG Diploma in Computer Applications (PGDCA)

Programme Outcomes (PO)

Upon completion of the programme, the student will attain the ability to:

PO1: Explain different computing paradigms (hardware & software) needed for a proper understanding of Computer Applications as a subject.

PO2: Comprehend, explore and develop computer programs in the allied area like algorithms, web design, data analytics etc. for efficient design of computer based systems.

PO3: Apply domain knowledge and expertise for enhancing educational pursuit and research capability.

PO4: Develop a range of Software skills applicable for employment.

PO5: Recognize and apply computing principles and Project Management in multidisciplinary environment.

PO6: Use the knowledge of advance technologies for developing customized solutions via startups and entrepreneurship.

Programme Specific Outcome (PSO)

Upon completion of the programme, the student will attain the ability to:

PSO1: Aspiring for higher degrees and research work in computers.

PSO2: Attain specialization in specific domains of Computer Applications.

PSO3: Apply Knowledge in Software Development/ IT Sectors

PSO4: Apply skilled knowledge in Banking, Insurance, Teaching and other services in Corporate and Government sectors.

PSO5: Initiate startups and perform task as entrepreneurs in IT sectors

SEMESTER – I

PGDCA C101: Computer Fundamentals

COURSE OUTCOME

After completion of the course, the student will be able to:

- CO1:** Explain basic components, structure and functions of a Computer System
- CO2:** Classify the types of Software, Hardwares and Peripherals of Computer System
- CO3:** Outline the functions of Operating systems and Programming languages
- CO4:** Create and execute Batch files in DOS Environment.

SEMESTER – I

PGDCA C102: Programming Using C

COURSE OUTCOME

After completion of the course, the student will be able to:

- CO1:** Recognize the basics of computer programming concepts using C Programming Language.
- CO2:** Explain the concept of C character set, identifiers and keywords, variable different data types, operators and programming constructs.
- CO3:** Apply the concept of advanced topics like Arrays, Functions, Pointers, Structures, Unions and Dynamic Memory Allocations and File Handling in various programmes
- CO4:** Create and execute different programmes using Procedural programming method.

SEMESTER – I

PGDCA C103: MS-Office

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Recognize the basic knowledge of Windows Operating System.

CO2: Apply Microsoft Word tools to create professional documents.

CO3: Design, construct and analyze data using MS-Excel.

CO4: Create Presentations using MS- PowerPoint.

SEMESTER – I

PGDCA C104: Database Management Systems

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Understand the fundamental elements of Database Management System using basic concepts of data model, entity-relationship model, database design etc.

CO2: Design ER-Models to represent simple database application scenarios and convert them into tables.

CO3: Implement Normalization for the optimization of Database Design

CO4: Formulate queries using SQL for effective information storage and retrieval in a Database

SEMESTER – I

PGDCA C105: Data Communications & Networks

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Recognise the structure of Data Communications System and its components and basics of Networking.

CO2: Explain the concepts of Network models (OSI and the TCP/IP Reference models), their functions of OSI Layers and different Protocols used in these Model..

CO3: Illustrate various Networking devices and their functions, Multiplexing, Switching Techniques, IP Addressing.

CO4: Illustrate different Transmission media, Flow control and Error Detection Techniques.

SEMESTER II

PGDCA C206: Software Engineering

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Illustrate the basics of software – its characteristics, SRS and its components.

CO2: Classify the fundamentals of different software process models & techniques to construct larger and more complex software systems

CO3: Apply software engineering concepts to design, develop and maintain the software.

CO4: Implement Software Testing for good Software Quality Assurance.

SEMESTER – II

PGDCA C207: Programming in JAVA

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Describe the fundamental concepts and features of Java Programming language.

CO2: Implement Object Oriented Programming Concepts (class, constructor, overloading, inheritance, overriding) in java.

CO3: Implement concepts of Multithreading and Exception Handling in Java.

CO4: Create and Use Packages and Interfaces in a Java program and Develop Graphical User Interface applications and Web based applications in Java by importing applet, AWT.

SEMESTER – II

PGDCA C208: Operating System

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: State the Role of System Software (Operating System) in Computers.

CO2: Describe the important Computer System resources and the Role of OS in their management policies and algorithms

CO3: Analyse different types of Operating Systems (DOS, Windows, UNIX).

CO4: Create and execute Shell Scripts in Linux.

SEMESTER – II

PGDCA C209: Internet and its Applications

COURSE OUTCOME

After completion of the course, the student will be able to:

CO1: Understand the basics of Internet and its usage as a learning resource and communication system.

CO2: Apply HTML for Website development.

CO3: Analyse the basics of E-Commerce and digital payment.

CO4: Use web services like E-mail, Search Engines etc.

SEMESTER- II

PGDCA DSE 201: Project Work

Course Outcomes:

After the completion of the course, the student will attain the ability to:

CO1: Formulate projects with clearly identified scope and requirements.

CO2: Understand the practical implementation of Software Development Life Cycle.

CO3: Implement programming theories, concepts and principles & use latest computing tools for Software Development.

CO4: Develop team building capacity and work ethics for successful project development and management.