

PGDCA

Programme Outcomes

The program focuses on the skill enhancement of students in which following skill component are enhanced.

- To train students in the latest trends of Application Development, Programming Languages and Database Management.
- To enhance their career opportunities in the software development and maintenance sector in the state.
- To expose the students to Open Source Technologies so that they become familiar with it and can seek appropriate opportunity in trade and industry.
- To give hands on experience to students while developing real life IT application as part of the study.
- To augment the knowledge base of the students, through various activities which will be complementary to the theoretical studies.

COURSE OUTCOMES

COURSE NAME: Fundamentals of Information Technology

CLASS –PGDCA SEMESTER – I

Course Outcomes

After studying this course, students should be able to:

- understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
- understand the difference between an operating system and an application program, and what each is used for in a computer
- describe some examples of computers and state the effect that the use of computer technology has had on some common products
- Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.

COURSE NAME: Operating Systems

CLASS –PGDCA SEMESTER – I

Course Outcomes

After studying this course, students should be able to:

- Describe the important computer system resources and the role of operating system in their management policies and algorithms.
- Understand the process management policies and scheduling of processes by CPU

- Evaluate the requirement for process synchronization and coordination handled by operating system
- Describe and analyze the memory management and its allocation policies.
- Identify use and evaluate the storage management policies with respect to different storage management technologies.

Identify the need to create the special purpose operating system

COURSE NAME: Problem Solving using C

CLASS –PGDCA SEMESTER – I

Course Outcomes

After studying this course, students should be able to:

- **Knowledge and Understanding:** On successful completion of this subject the students have the programming ability in C Language.
- **Intellectual Cognitive/ Analytical Skills:** Enhancing Logical Thinking and Reasoning Skills through Collaborative Learning in C Programming.
- **Practical Skills:** Students would be capable of developing various applications to solve deluge of real-world problems. They can also learn to make system software as well as application software. These existing languages could become base for developing new languages which can inherent its features. On the backend of various embedded systems, these languages are deployed.
- **Transferable Skills:** In many multinational companies they can work effectively in a group or team to achieve goals and can show initiative and leadership abilities.

SEMESTER – 2

COURSE NAME: Database Management System

CLASS –PGDCA SEMESTER – 2

Course Outcomes

After studying this course, students should be able to:

- **Knowledge & Understanding :** Databases and their design & development
- **Intellectual Cognitive/ analytical skills:** Normalization of Databases.
- **Practical Skills :**Using SQL
- **Transferable skills:** Usage of DBMS design and administration

COURSE NAME: Introduction to Computer Network, Internet and E-Commerce

CLASS –PGDCA SEMESTER – 2

Course Outcomes

After studying this course,

- Students will know what is network, its types.
- Students will learn about the different topologies used in network.
- Students will understand different protocols used in internet.
- Students will understand and be able to describe the differences between intranet, extranet and internet.
- Students will understand about Commerce

COURSE NAME: Object Oriented Programming using C++

CLASS –PGDCA SEMESTER – 2

Course Outcomes

After studying this course, students should be able to:

- Write, compile and debug programs in C++language.
- Use different data types, operators and console I/O function in a computer program.
- Design programs involving decision control statements, loop control statements and case control structures.
- Understand the implementation of arrays, pointers and functions and apply the dynamics of memory by the use of pointers.
- Comprehend the concepts of structures and classes: declaration, initialization and implementation.
- Apply basics of object oriented programming, polymorphism and inheritance.
- Use the file operations, character I/O, string I/O, file pointers, pre-processor directives and create/update basic data files.