



(U/S 2(f) and 12B of the UGC Act1956, NAAC Accredited)

DESH BHAGAT UNIVERSITY, MANDI GOBINDGARH

Faculty of Information Technology and Library Sciences Department Of Computer Science & Application

Post Graduate Diploma in Computer Application

(PGDCA)

PROGRAM OUTCOMES (POs)

P.G.D.C.A (POSTGRADUATE DIPLOMA IN COMPUTER APPLICATION)

- ❖ To equip the students with skills required for designing, developing applications in Information Technology.
- ❖ To able to learn the latest trends in various subjects of computers & information technology.
- ❖ To provide a detailed coverage of the key concepts and challenges in computer application field.
- ❖ To give hands on to students while developing real life IT application as part of the study.
- ❖ To train graduate students in basic computer technology concepts and information technology applications.
- ❖ To design and develop applications to analyze and solve all computer science related problems.
- ❖ To engage in continuing professional development.
- ❖ To use current techniques, skills, and tools necessary for computing practice.
- ❖ To apply Computer Applications / Tools into various domains such as Banking, Finance, Retail and hospitality, Health, Travel and Tourism etc.
- ❖ To apply design and development principles in the construction of software systems of varying complexity.
- ❖ To augment the knowledge base of the students, through various activities which will be complementary to the theoretical studies?
- ❖ To acquire required skills in Information Technology.

Course Outcome

Semester 1

Course Code: PGDC-101

Title of the Course: Computer Programming

Course Outcomes:

CO1. Understand the difference between the top-down and bottom-up approach

CO2. Describe the object-oriented programming approach in connection with C++

CO3. Apply the concepts of object-oriented programming

CO4. Illustrate the process of data file manipulations using C++

Course Code: PGDC-102

Title of the Course: Computer Programming Lab

Course Outcomes:

CO1. Understand the difference between the top-down and bottom-up approach

CO2. Describe the object-oriented programming approach in connection with C++

CO3. Apply the concepts of object-oriented programming

CO4. Illustrate the process of data file manipulations using C++

Course Code: PGDC-103

Title of the Course: Database Management System

Course Outcomes:

CO1. Understand working of database and different levels of its architecture and learn key constraints of database.

CO2. Learn relational database models.

CO3. Understand SQL query and commands and viewing of data.

CO4. Learning concepts of normalization and data models.

Course Code: PGDC-104

Title of the Course: Database Management System-LAB

Course Outcomes:

CO1. Understand working of database and different levels of its architecture, and learn key constraints of database.

CO2. Learn relational database models.

CO3. Understand SQL query and commands and viewing of data.

CO4. Learning concepts of normalization and data models.

Course Code: PGDC-105

Title of the Course: Introduction to Information Technology

Course Outcomes:

- CO1: Know the basic components of the computer and working of each device.
- CO2: Understand the representation of data in computer
- CO3: Know the difference between Assembly and High level programming Languages.
- CO4: Design Algorithms and Flowcharts understand the functions of Operating System and Fundamentals of Computer Networking

Course Code: PGDC-106**Title of the Course:** Computer System Architecture**Course Outcomes:**

- CO1. Describe the fundamental organization of a computer system
- CO2. Explain the functional units of a processor
- CO3. Explain addressing modes, instruction formats and program control statements
- CO4. Distinguish the organization of various parts of a system memory hierarchy

Course Code: DBSS-101**Title of the Course:** Soft Skills-I**Course Outcomes:**

- CO1: To groom students to be Resilient and to be better equipped to cope with the unfamiliar circumstances, to manage disappointments and deal with conflicts.
- CO2: To enable the students to connect and work with others to achieve a set task.
- CO3: The course will train the students to gain Leadership skills and be a Leader who can assess and identify the strengths within the team and utilize the diverse skills of the group to achieve the set objectives
- CO4. To cause a basic awareness about the significance of soft skills in professional and interpersonal communications and facilitate an all-round development of personality

Course Code: DBPE-101**Title of the Course:** Positive Life & Ethics**Course Outcomes:**

- CO1: Describe, develop positive subjective experiences and traits in organizations to improve workplace effectiveness.
- CO2: Improve organizational performance as well as individual performance, well-being and fulfillment.
- CO3: An increase in self-esteem, improved relationships and a greater outlook on life.
- CO4: Research in the realm of positive psychology has found that gratitude, social connection and kindness are all important to living our best lives.

Semester 2

Course Code: PGDC-201

Title of the Course: Web Technologies

Course Outcomes:

- CO1. Understand best technologies for solving web client/server problems.
- CO2. Analyze and design real time web applications
- CO3. Use Java script for dynamic effects and to validate form input entry
- CO4. Analyze to Use appropriate client-side or Server-side applications.

Course Code: PGDC-202

Title of the course: Web Technology LAB

Course Outcomes:

- CO-1 Create and analyse a web page and identify its elements and attributes.
- CO-2 Create web pages using HTM Land DHTM and Cascading Styles sheets.
- CO-3 Build dynamic web pages using JavaScript and outline technologies that make the web pages and publishing them.
- CO-4 Design to create structure of web page, to store the data in web document, and transport information through web.

Course Code: PGDC-203

Title of the Course: Data Structure

Course Outcomes:

- CO1. Comprehend the basic concepts of memory management, data structure, Algorithms and Asymptotic notation.
- CO2. Understand and implement linear data structures such as arrays, linked lists, stacks and Queues.
- CO3. Design non linear data structures trees and Graphs, and implement their operations.
- CO4. Apply appropriate data structure for a given application.

Course Code: PGDC-204

Title of the Course: Data Structure- LAB

Course Outcomes:

- CO1. Comprehend the basic concepts of memory management, data structure, Algorithms and Asymptotic notation.
- CO2. Understand and implement linear data structures such as arrays, linked lists, stacks and Queues.
- CO3. Design nonlinear data structures trees and Graphs, and implement their operations.

CO4. Apply appropriate data structure for a given application.

Course Code: PGDC-205

Title of the Course: Data Communication & Computer Networks

Course Outcomes:

CO1: Understand of the OSI Reference Model and in particular have a good knowledge of Layers 1-3.

CO2: Create and analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.

CO3: Acquire a basic knowledge of the use of cryptography and network security.

CO4: Understand the basics of Computer Networks and Various Protocols.

Course Code: PGDC-206

Title of the course: Enterprise Resource Planning

Course Outcomes:

CO1. Understand and implement linear data structures such as arrays, linked lists, stacks and Queues.

CO2. Apply appropriate data structure for a given application.

CO3. Implement different searching and sorting techniques. Compare different searching and sorting techniques.

CO4. Manage projects in multidisciplinary environments for the society.

Course Code: PGDE-207

Title of the Course: Management Information System

Course Outcomes:

CO1: Understand the Systems and Basic Systems Concepts.

CO2: Understand the Characteristics and Components of MIS.

CO3: Understand the Financial and Production information systems.

CO4: Understand the process of knowledge management: Creation/ capture, storage and retrieval, transfer and application.

Course Code: PGDE-208

Title of the Course: Data Science

Course Outcomes:

CO1: Identify and execute basic syntax and programs in R.

CO2: Perform the Matrix operations using R built in functions

CO3: Apply non numeric values in vectors

CO4: Create the list and data frames

Course Code: PGDE-209

Title of the Course: Data Warehousing and Data Mining

Course Outcomes:

CO1. Understand the concepts of data warehouse and data mining

CO2. Use data preprocessing techniques to build data warehouse

CO3. Analyze transaction databases for association rules.

CO4. Use classification methods and prediction techniques on transaction databases.

Course Code: DBES-101

Title of the Course: EVS

Course Outcomes:

CO1. Students will be able to understand and evaluate the global scale of environmental problems

CO2. How to resolve challenging environmental issues affecting nature

Course Code: DBCE-101

Title of the Course: Community Engagement

Course Outcomes:

CO1: To develop an appreciation of rural culture, life-style and wisdom amongst students

CO2: To learn about the status of various agricultural and rural development programmes

CO3: To understand causes for rural distress and poverty and explore solutions for the same

CO4: To apply class room knowledge of courses to field realities and there by improve quality of learning.