Session 2021-22

Programme and Course Outcome

PGDCA

Multani Mal Modi College, Patiala

Program Outcomes (POs)

After the completion of the program the learner will be able to

PO-1: Make use of internet for searching and downloading information on web, sending or receive e-mails.

PO-2: Prepare presentation and perform computation on excel sheet.

PO-3: Handle windows and Linux operating system for general purpose applications and networking.

PO-4: Develop general purpose application based on C/C++ and HTML based languages.

PO-5: Perform various office activities on computer system such as installation of software, handling of printer and scanner, internet connection along with troubleshooting of system.

Course Outcomes (COs)

PGDCA

Semester-1st

Code	Course
PGDCA-101	Fundamentals of Information Technology
PGDCA-102	Operating Systems
PGDCA- 103	Problem Solving using C
PGDCA-104	Software Lab – I (Office Automation and Productivity Tools)
PGDCA-105	Software Lab – II (Programming Fundamentals through C Language)

Semester-2nd

Code	Course
PGDCA-201	Database Management System
PGDCA-202	Introduction to Computer Network, Internet and E-Commerce
PGDCA-203	Object-oriented Programming using C++
PGDCA-204	Software Lab – III (Web Designing, HTML and RDBMS)
PGDCA-205	Software Lab – IV (C++ Programming)

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PGDCA-101 Fundamentals of Information Technology & Software Lab – I (Office Automation and Productivity Tools)
Upon the completion of the course the learner will be able to

PO-1: Familiarization with the types of computer, peripheral devices, memory management, multimedia and number system.

PO-2: Learn about working of various input and output devices.

PO-3: Learnt about binary number representation along with its operations.

PO-4: Understand theoretical framework of internet and associated application of theinternet.

PO-5: Acquire the knowledge about the binary number representation along with its operations.

PO-6: Understand of the role of computers in business, education and society.

PGDCA-102 Operating Systems
After the completion of the course the learner will be able to

CO-1: Understand various terminologies related to Operating system.

CO-2: Learn the basic structure and organization of the file system.

CO-3: Acquire knowledge about various process management and CPU scheduling.

CO-4: Understand various features and application of windows operating system.

CO-5: Learn about fundamentals of Linux operating system.

CO-6: Acquire knowledge about various Linux commands.

PGDCA-103 Problem Solving using C & Software Lab – II (Programming Fundamentals through C Language)
Upon the completion of the course the learner will be able to

CO-1: Understand of various concepts of programming language.

CO-2: Develop logics and analytical ability solve problem.

CO-3: Learn about procedural programming using functions.

CO-4: Acquired various flow control statements.

CO-5: Learn about various storage classes along with user defined data types.

CO-6: Acquire knowledge of file handling

CO-7: Work with arrays of complex structure data types.

CO-8: Understanding a concept of functional hierarchical code organization.

PGDCA-201 Database Management System
Upon the completion of the course the learner will be able to

CO-1: Familiarization with various features and applications of Database Management system.

CO-2: Acquire knowledge about database languages (DDL, DML, DCL)

CO-3: Learn how to design a database by using different data models.

CO-4: Understand the database handling during execution of the transactions along with concurrent access.

CO-5: Ability to perform various types of SQL queries.

CO-6: Able to design a good database using normalization, decomposition and functional dependency

PGDCA-202 : Introduction to Computer Network, Internet and E-Commerce
After completion of this course, students will be able to:
CO-1: Understand the functions of different layers of TCP/IP and OSI reference models.
CO-2: Classify of networks-LAN, MAN and WAN.
CO-3: Identify and understand various techniques and modes of transmission media with real time applications.
CO-4: Understand the fundamentals of Network security.

PGDCA-203 Object-oriented Programming using C++ & Software Lab – IV (C++ Programming)
After the completion of the course the learner will be able to
CO-1: Understand the benefits of Object-Oriented Programming (OOP) as compare to Traditional Programming approach and resolve problem in domain of object-oriented programming.
CO-2: Familiarization with a widely range of features of object-oriented programming using C++
CO-3: Understand Object oriented approach for finding solutions to various problems with the help of C++ language.
CO-4: Understand the concept of polymorphism with the help function overloading and virtual functions.
CO-5: Acquire various types of various types and forms of inheritance.
CO-6: Understand basic of generic functions and classes.

PGDCA-204 Software Lab – III (Web Designing, HTML and RDBMS)
After completion of this course, students will be able to:
CO-1: Write and debug webpage using HTML and DHTML languages.
CO-2: Knowledge and Use of web publishing and phases related with the website development.
CO-3: Make use of knowledge related to links, addresses, images, and tables.
CO-4: Knowledge of various formatting options on HTML page and web site.
CO-5: Knowledge of Server Side programming.