

Programme and Course Outcome

M.Sc. (IT)

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS (PGDCA)



**GOVT. KIRTI COLLEGE NIAL,
PATRAN (PATIALA)**

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NIAL-PATRAN (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.

Programme & Course Outcomes of PGDCA

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

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

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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 referencemodels.

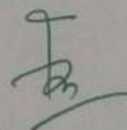
Programme & Course Outcomes of M.Sc(IT)

- CO-2: Identify and formulate appropriate research problem topics and parameters
- CO-3: Prepare a research proposal to undertake a research project
- CO-4: Organize and conduct research in a more appropriate manner
- CO-5: Write a research paper, research report and thesis and present the research work to audience

MS- 224 : Artificial Intelligence

On completion of this course, the students will be able to:

- CO-1: Understand and explain the definition, components, and application areas of Artificial Intelligence
- CO-2: Understand the concepts of Logical Reasoning and their use in knowledge representation and knowledge processing
- CO-3: Describe the architecture and working of knowledge-based systems (Expert systems)
- CO-4: Use PROLOG language to write and execute simple program for AI
- CO-5: Explain various applications and limitations of Artificial Intelligence systems.



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