

MDC-1: Introduction to Computers

3 Credits | 45 Classes | Semester I

End Semester Exam 75 Marks

Objectives:

- To understand the basics of computer
- To learn the operating system of computer.
- To learn basic architecture of computer
- To know the practical application of various automation tool

Course Outcomes:

- The students will learn fundamental knowledge of computer, Microsoft tools, basic computer architecture and aspects of Internet.

SYLLABUS

Module – I.

15 Classes

COMPUTER SCIENCE & OPERATING SYSTEMS

- **Types of Computer:** Analog, Digital, and Hybrid type, Hardware, Software, System software, Application software, Stored Program Concept and Von Newman Architecture, Firmware, Humanware, Stored Program Concept, Evolution of computers, Generation of computer.
- **Data Organisation:** Organization Data, Character, Field, Record, File, Database, Sequential Access, Random Access, Indexed Sequential Access.
- **Data Communication:** Local Area Network, Wide Area Network.
- **Operating System:** Introduction, Different Operating Systems, Loading and Quitting the Operating Systems, Important Windows Commands.

Module – II.

10 classes

WINDOWS/Linux Windows Introduction, Concepts different Operating System GUI/CUI. Desktop Icons. (Windows / Desktop Linux) ,My Computer, Recycle Bin, Internet Explorer, Network Neighbourhood, My Documents

Working with windows: How to create a Folder, Copying and cutting files, Renaming, Programs, Favourites, Documents, Settings, Find, Run, Shut down

Module – III.

10 classes

INTERNET: Understanding how to search Google, bookmarking and going to specific website, Copy and paste Internet content into your word file and emails, creating an email account, mail merge, Understanding social media platforms. Advantages and disadvantages of Internet.

Module- IV.

10 classes

World Wide Web, Uniform Resource Locator (URL) , Browsers: Internet Explorer, Netscape Navigator, Opera, Firefox, Chrome. HTTP protocol, FTP protocol. Wireless 3G, 4G, Wi-Fi, Bluetooth, Cloud Computing, viruses, worms and other malware, Email threats.

Reference Books:

1. Rajaraman V-Fundamentals of computers, Prentice Hall of India pvt ltd ,New Delhi
2. Peter Nortons, "Introduction to Computers", TMH,2004