

Syllabus - BBA – Semester I

71115 - Basics Of Computer

1. Introduction

What is a computer ?
Characteristics of Computer
Basic Building Blocks
Input Unit
Output Unit
Central Processing Unit(CPU)
Control Unit
Arithmetic and Logic Unit(ALU)
Memory Unit
History and Generations of Computer
History
Generations of Computers
Types of Computers
Micro Computers
Minicomputers
Mainframes
Supercomputers

2. Hardware

- 2.1 Introduction
- 2.2 Data Representation
- 2.3 Input Devices
 - Keyboard
 - Mouse
 - Magnetic Ink Character Recognition (MCIR)
 - Bar Code Scanner
 - Optical Character Recognition (OCR)
 - Joystick
- 2.4 Output Devices
 - Monitor
 - Printer
 - Plotter
- 2.5 Memory Devices
 - Primary Memory
 - Secondary Memory
 - Extended and Expanded Memory
- 2.6 Multimedia
 - Components of Multimedia
 - Multimedia Applications

3. Software

- 3.1 Introduction
- 3.2 Classification of Software
 - 3.2.1 System Software
 - 3.2.2 Application Software
- 3.3 System Software
 - 3.3.1 Operating Systems (O.S.)
 - 3.3.2 Compilers
 - 3.3.3 Interpreter
- 3.4 Programming Languages.
- 3.5 Files
 - 3.5.1 Data Processing
 - 3.5.2 Files and Records
 - 3.5.3 Files Organizing
- 3.6 Operating Systems DOS and Windows
 - 3.6.1 Disk Operating System (DOS)
 - 3.6.2 Windows O.S.
 - 3.6.3 Booting Process
 - 3.6.4 Device Drivers
 - 3.6.5 System Files
- 4. Operating System**
 - 4.1 Introduction
 - 4.2 Functions of an Operating System
 - 4.3 Types of Operating Systems
 - 4.3.1 Batch Operating Systems
 - 4.3.2 Multiprogramming
 - 4.3.3 Multitasking (Time – Sharing)
 - 4.3.4 Multiprocessing
 - 4.3.5 Multithreading
 - 4.3.6 Real-Time
 - 4.3.7 Multi-user Operating System
- 5. Communication / Networking**
 - 5.1 Concept of Communication
 - 5.1.1 Classification
 - 5.1.2 Communication Media
 - 5.2 Networking
 - 5.2.1 Network Goals
 - 5.2.2 Applications of Networks
 - 5.2.3 Types of Networks
 - 5.2.4 Topologies
 - 5.2.5 Components of Networks
 - 5.2.6 Communication Process
 - 5.2.7 Protocols
 - 5.2.8 OSI Layers
 - 5.2.9 E-mail
 - 5.2.10 Introduction to wireless network

6. System Security

6.1 Introduction

6.2 Viruses

6.3 Anti virus software

Reference Books:

Computer fundamental - P. K. Sinha

Fundamental of Computer – V. Rajaram – (Prentice Hall)