# **Introduction to Computers**

Course Name: Introduction to Computers. Course Code: CAS101 Credit Hours: 3 Knowledge Domain: Computer Architecture and System Software. Prerequisite(s): None

#### Learning Objectives:

Upon completion of this course, the student will be able to:

- 1. Get an idea about history and evolution of computer systems.
- 2. Grasp the basic architecture and components, and main computer types.
- 3. Realize the impact of networking and embedded systems.
- 4. Grasp the basic concepts of peripherals.
- 5. Grasp the concept of operating systems.
- 6. Understand software development and applications.

### **Learning Outcomes**

- 1. Grasp the basic architecture and components of a computer system and their operating systems.
- 2. Realize the impact of networking on computer systems.
- 3. Get an idea about different applications and the basic methodology for software developments.

# **Overview and Syllabus**

History and evolution of computers. Basic architecture and organization. Computer types. Impact of networking. Embedded computer systems. Computer peripherals. Operating systems and system software. Computer applications. Software development methodology.

# **Course Outline**

	Торіс
1	Module 01: Overview
	Computer Definition and History
	Basic Concept
	Assessment

2	Module 02 : Data
	Text Data Representation
	Audio Data Representation
	Image Data Representation
	Video Data Representation
	Numbering Systems
	Assessment
3	Module 03 : Hardware
	Overview
	Central Processing Unit
	Memory
	Slots, Cards and Buses
	Ports
	Assessment
4	Module 04 : Hardware II: Secondary Storage Devices
	Types
	Floppy-Diskette Drive
	Hard-Disk Drive
	Types of Tape
	Compact-Disk Drives
	Digital-Versatile-Disk Drive
	Flash Secondary Storage Devices
	Assessment
5	Module 05 : Hardware III: Computer Peripheral
	Input / Output Devices
	Keyboards
	Mice
	Scanners and Monitors
	Printers and Plotters
	Speakers and Microphones
	Assessment
6	Module 06 : Software I: System Software
	Software Types
	Software Ownership Rights
	Operating System
	Basic Input/Output system
	Utility Programs
	Language Translators
	Assessment
7	Module 07 : Software II: Application Software

	Concents and Cotecomies
	Concepts and Categories
	Popular Productivity Software
	Software Development Lifecycle
	Programming Languages
	Information and Database Systems
	Assessment
8	Module 08 : Networks and The Internet
	Concepts and Categories
	Communication Characteristics, Protocols and Devices
	The Internet
	The World Wide Web
	Computer and Networking Issues
	Assessment