**Course Content**

**Course Name: Introduction to Computer (II)**

* Introduction to Computer
* What is Computer, data, information
* Types of data
* Examples and differences of data and information.
* Microprocessor
* Introduction to CPU and its components (ALU,CU and register)
* Computer bus (Address bus, data bus and control bus)
* Computer ports (Serial and parallel ports)
* Computer languages (high level language. Intermediate level language and low level language)
* Language translator (compiler, interpreter and assembler)
* Computer memory
* Volatile and non-volatile memory
* Main memory(RAM & ROM)
* Types of RAM(SRAM & DRAM)
* Cache memory
* Secondary storage (Magnetic Tap, HDD, CD, DVD, USB).
* Memory units (Bit, Byte, kilobyte (kB), Mega Byte (MB), Gigabyte (GB) and Tera Byte (TB).
* Number system and conversions
* Binary number
* Octal number
* Decimal number
* Hexa number
* Data communication & computer network
* Definition of computer network and types (LAN,MAN and WAN)
* Data communication and its components (sender, receiver, message, medium and protocol).
* Modes of communication
* Simplex mode
* Half duplex mode
* Full duplex mode
* Synchronous mode of communication and asynchronous mode
* Parallel and serial communication
* Introduction to topology and its types (Bus, ring, start and mesh topology)
* Internet browsing, web browser, URL, search engine and E-mail, Social media
* E-Commerce
* Office automations
* Introduction to MS Word, MS Excel, MS Power Point, MS Access
* Tool Bars, Menu Bars, Text formatting etc