

**Course Code EDCE-116**  
**SEMESTER-I**

**"APPLICATION OF TECHNOLOGY IN EDUCATION"**

**Objectives :**

1. Awareness of potentiality of information Technology.
2. Detailed knowledge of functioning of computers .
3. Hands on experience of using computers.
4. Design technology enhanced lesson plan using office automation package.
5. Skill in word processing , spreadsheet database.
6. Knowledge of window based operating system.
7. Knowledge and application of educational software.
8. Understanding applications of IT in school administration.

**Unit - I Introduction to Computer Technology :**

- A. Computer meaning, development and use in education.
- B. Parts of Computer - CPU (Central Processing unit), Processor, Memory & its types, Bus, Port & its type, Modem.
- C. Computer peripherals
  - i. Input devices - Keyboards, OCR, Barcode Reader ,Speech recognitions, Scanner, Mouse ,Joystick
  - ii. Out-put devices, Display, Screens, Printers, types of printers , Laser, Inkjet, Thermal.
  - iii. Special Purpose I/O devices, MICR, eared Scanner.
- D. Meaning of binary system - bit & byte Languages - Higher Level and Cover Level, OS, multi taking, multi threading, Multi user, multi processor.
- E. Application software : (MS-Office), Word, Excel, Access.
- F. Meaning of IT, Scope of IT in education , classroom & IT.  
Local area Network - architecture, type of topology, internet, wide area Net work - Public network , internet, extranet, firewalls, Network, Protocols

**PRACTICAL :-**

It is mandatory to perform all the practical in the computer laboratory of the institution and each student will have to prepare a hand written journal along with print-out of the experiments attached to concerned experiment in journal and the same but duly certified by concerned teacher on each experiment with certificate from head of the institute will have to be presented before the examiner at the time of final practical examination.