

**Course Code EDCE-216**  
**SEMESTER-II**

**"APPLICATION OF TECHNOLOGY IN EDUCATION"**

**Objectives :**

1. Awareness of potentiality of information Technology.
2. Detailed knowledge of functioning of internet.
3. Hands on experience of using internet.
4. Practical knowledge based on word, excel, power point, access, HTML & window, explorer, etc. through performing experiments in computer laboratory.
5. Skill in presentation applications & programming

**Unit - I Information Technology in Education**

- A. Internet & WWW - History of internet access options for internet, types of cable - twisted & coaxial fiber optic cable. world wide web - URLs, E-mail ID, meaning of web page & website, Uses of internet in education, Various search engine.
- B. Introduction to simple function of HTML, meaning tags, characteristics of HTML tags, layout of HTML document.
- C. Presentation Software full failure of a typical presentation package such as MS - power point.
- D. Multi Media - applications of Multimedia in education & tracking pixel - meaning, tools of multimedia paint & draw, 3D graphics, animation, sound and music, MIDI, Video CODEC Inter frame and intra frame compression, morphing multi media projector, kiosks.
- E. E- learning - meaning concept, merits and demerits of e-learning
- F. Synchronous and asynchronous learning - meaning, concept and differences between them.
- G. Synchronous learning different modes of synchronous learning.
  - Instructor led instruction
  - Computer - Assisted - Instruction (CAI)
  - Computer - Managed - Instruction (CMI)
  - Virtual classroom
  - Tele-Conference (Internet mode)
  - Video Conference (Internet mode)
- H. Asynchronous learning Different modes of asynchronous learning : Individualized intimation.
  - Web - based - Training (WBT)
  - Computer - based - Training (CBT)
  - Computer - Assisted - learning (CAL)
  - E-mail

## **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.

## **REFERENCE BOOKS :-**

1. Ahalpara,D.P.and others (2001) " Introduction to computer's -Std-9", Gujarat State boards of school Tex books, Gandhinagar
2. Ahalpara, D.P. and others (2001) " Introduction to computer's -Std-10", Gujarat State boards of school Tex books, Gandhinagar.
3. Aptech Limited (1999), "M.S. Office 97", Tata McGraw - Hill publishing company limited, New Delhi.
4. Bartee, Thomas C. (1983), digital computer Fundamentals" McGraw - Hill international book company.
5. Clstams school of computing (2000) Jaipur, "Internet an introduction", Tata McGraw-Hill publishing company limited, New Delhi.
6. Denis, Kim, Sen and Arya "Information Technology - The breaking wave, Tata McGraw-Hill publishing company limited, New Delhi.
7. Madan Gupta and Arya," The illustrated company dictionary," Dreamland publication, New Delhi.
8. Meredith Marilyn and Rustkosky Nita (2000), "Advanced Microsoft Office - 2000 "BPP publication, New Delhi.
9. Meredith Marilyne and Baber Roberta (1998)." computers in your future "Practice hall of India Pvt. Ltd., New Delhi.
10. Spenser Danald D. (1993). " The illustrated computer dictionary" Universal Book stall, New Delhi.
11. Sigh V.P. and Singh Meenakshi (1999)" Computer - Terms and definitions " Asian publishers, New Delhi.
12. Sitaram B.R. and others (2001), " Introduction the computers std-8" Gujarat State board of school text books, Gandhinagar.
13. Intel Teach to the future pre -service curriculum & CD
14. શુક્લ, સતીષ એસ. " ઈન્ફર્મેશન ટેકનોલોજી ઈન એજ્યુકેશન" વિદ્યાભારતી એજ્યુકેશન ફાઉન્ડેશન, અમદાવાદ.