TUMKUR UNIVERSITY



Syllabus as per CBCS 2016-2017 under Semester Scheme

COMPUTER SCIENCE COMPUTER FUNDAMENTALS

(BA/BSc/BCom/BBM/BCA/BSW)

BSc/BCom/BBM/BCA: I SEM

BA/BSW : III SEM

COMPUTER FUNDAMENTALS

(BA/BSc/BCom/BBM/BCA/BSW)

BSc/BCom/BBM/BCA: I SEM

BA/BSW : III SEM

2Hrs/week Total: 30 hrs

Unit 1: COMPUTER BASICS

5 hrs

of computers, characteristics of computer, Evolution generations: first generation, second generation, third generation, fourth generation and fifth generation computers. Classification of computers: based on working principle, size and capability, computer applications: commercial, data processing, office automation, industry and multimedia engineering, healthcare, education, graphics applications.

Unit 2: COMPUTER ORGNIZATION

6 hrs

Block diagram of computer, computer memory: primary memory: Read Only Memory and Random Access Memory. Secondary memories- hard disk, floppy disk, compact disk, blue ray disk, pen drive, memory cord. Input devices: key board, mouse, OMR, OCR, MICR, BCR and scanner. Output devices: monitor (CRT, LCD, LED), printers: impact and non impact printers, plotters.

Unit 3: NUMBER SYSTEM

3 hrs

Introduction to number systems, positional and non positional number systems. Decimal, binary, octal and hexa decimal number systems and their conversation.

Unit 4: COMPUTER HARDWARE AND SOFTWARE

5 hrs

Computer hardware, computer software-types of software: system software, application software, programming languages, low level and high level languages. Program translators: assemblers, compilers, interpreters.

Problem solving techniques: steps in problem solving techniques, algorithm: characteristics, examples, flowchart: flowchart symbols, examples.

Unit 5: COMPUTER NETWORKS AND INTERNET APPLICATIONS

3 hrs

Introduction, Types of Networks, Network Topology. LAN, WAN, MAN, Intranet and Internet, Internet applications, WWW, E-mail, browsing and searching. Search engines. Computer virus antivirus and surfing.

Unit 6. OPERATING SYSTEM

2 hrs

Introduction to OS, functions of OS, different views of OS, type of OS, DOS: internal and external commands.

Unit 7: MS-OFFICE

6 hrs

MS Word: Introduction to MS-Word, Editing a document, Formatting a document, Preview document, Printing a document, Find and Replace, Checking the grammar and Spelling, Word count, Header and footer, Auto correct and auto text, Drawing and insert objects, Table generation.

MS Excel: Worksheet basic, Creating worksheet, Entering text, Dates, alphanumeric and values, Tool bars and menus, Applying different formulas, Creating charts, Formatting of work sheet.

MS Power Point: Need of power point, Creating slides, Entering text, graphics, pictures and other objects, Tool bars and menus, Custom animation, Creating charts, Formatting of presentation.

Reference Books:

- 1. Computer Fundamentals: N. Mithili Devi and E. PadmaSri, SKYWARD Publishers
- 2. Introduction to computer concepts: Pearson publication.
- 3. Computer Fundamentals: Anita Goel, Pearson publication.
- 4. Fundamentals of Computers, V. Rajaraman.: PHI (EEE)
- 5. Microsoft office 2010: John Walkenbach, Herb Tyson, Michael R Groh, Faithe Wempen.
- 6. Microsoft office 2010 for windows: Steve Schwartz.

Scheme of evaluation:

Theory examination: 50marks

IA marks : Nil

Total : 50 marks