

## SEMESTER SYSTEM 2008

### B Com.(Computer Application)

CLASS -----> / SEMESTER	B. Com Comp. Appl.	CCE 30 %	MIN. MARKS	TERM END EXAM 70%	MIN. MARKS	TOTA L 100%	MIN. MARKS
FIRST SEM.	CS-1002 FUNDAMENTALS OF COMPUTING	15	5	35	12	50	17
	CS-1501 OPERATING SYSTEMS BASICS AND PC PACKAGES	15	5	35	12	50	17
	CS-1501A PRACTICAL ON WINDOWS & WORD	----	----	----	----	50	17
SECOND SEM.	CS-1001 INTRODUCTION TO INFORMATION SYSTEM	15	5	35	12	50	17
	CS-1502 PC SOFTWARES	15	5	35	12	50	17
	CS-1502A PRACTICAL ON IT AND OS BASICS AND PC PACKAGES	----	----	----	----	50	17
THIRD SEM.	CS-2302A SYSTEM ANALYSIS & DESIGN – I	15	5	35	12	50	17
	CS-2402A FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM & MS-ACCESS	15	5	35	12	50	17
	CS- PRACTICAL ON DBMS USING MS-ACCESS	----	----	----	----	50	17
FOURTH SEM.	CS-2402B DATABASE MANAGEMENT SYSTEM WITH ORACLE/SQL	15	5	35	12	50	17
	CS-2302B SYSTEM ANALYSIS AND DESIGN - II	15	5	35	12	50	17
	CS- PRACTICAL ON DBMS USING ORACLE/SQL	----	----	----	----	50	17
FIFTH SEM.	IC-3913 ACCOUNTING INFORMATION SYSTEM	15	5	35	12	50	17
	CS-2301 MANAGEMENT INFORMATION SYSTEM	15	5	35	12	50	17
	IC-3913A PRACTICAL ON INTERNET AND WEB PROG.	----	----	----	----	50	17
SIXTH SEM.	CS-3206 VISUAL BASIC PROGRAMMING	15	5	35	12	50	17
	CS-2602 INTERNET AND E-COMMERCE	15	5	35	12	50	17
	CS-3206A & CS-2602 PRACTICAL ON VB PROG. AND Any ONE ACCOUNTING SOFTWARE	----	----	----	----	50	17

PS :- CCE ---- CONTINUOUS COMPREHENSIVE EVALUATION, INDIVIDUAL PASSING REQUIRED FOR THEORY AND PRACTICAL SUBJECT.

Detailed Syllabus of  
B.Com. (Computer Application)  
Semester 1<sup>st</sup> and 2<sup>nd</sup>  
Session - 2008

**B.Com. - CS-1002**  
***Fundamentals of Computing***

**Objective:**

***Fundamentals of Computing*** provides a clear, concise introduction to the fundamentals of computer science. The course contents generate excitement, curiosity, and enthusiasm in students to learn more about the fascinating world of computing.

**Examination:**

The External examination will be of 35 marks. The question paper will contain questions equally distributed in all units. The balance of the paper will be maintained by including appropriate (Numerical/objective/conceptual/analytical/theoretical) combination of subsection in each question.

**Unit-I**

What is Computer Science, Evolution of the Computer, importance of computers, van Newman model of computer , Block diagram of computer, generation of computer, computer for individual users(define) - desktop, workstations, notebook, tablet pc ,handheld pc and smart phone, Computer for organization(define) - network servers, mainframe computers, mini computers and super computer, Define power PC.

**Unit-II**

Types of software and their uses, Number Systems - Decimal , Binary, Hexadecimal and Octal and conversion of all number systems , character coding system - BCD Codes, ASCII and EBCDIC and Gray code.  
Computer word.

**Unit-III**

Fixed point representation - integer storage, largest integer storage, Negative integer storage representation ,floating point representation, overflow and underflow.  
Digital and Analog quantities, Binary digits, logic levels, digital wave forms - Timing diagram, Data Transfer, Basic logic operations.

**Unit-IV**

CPU organization , function of CU, function of ALU, CPU instruction, types of Buses,size of cpu registers - program counter, memory address register, memory data register, Accumulator.  
Input-Output devices - Architecture of keyboard, mouse, light pen, video input(touch screen), joystick, track(space) ball, micr, ocr, omr, webcam scanner, types of monitor, plotter, types of printer, Voice output device.

**Unit -V**

Memory - types of primary(main) memory, types of secondary memory, cache memory, physical and Virtual memory, types of optical memory, RAM disks.  
Addressing modes - Direct addressing, Indirect addressing, Indexed Addressing, Immediate Addressing modes.

**Books:**

1. Digital fundamenatals - Floyd & Jain - Pearson Education
2. Introduction to computers - Norton - McGraw Hill
3. computer fundamentals - B.Ram - New Age International
4. computer fundamentals - jaggi and jain

**B.Com - CS-1501**

**OPERATING SYSTEM BASICS & PC PACKAGES**

**Objective:**

The objective of this course is to make student learn the basic functions & structure of operating systems and various commands & operations.

**Examination:**

The External examination will be of 35 marks. The question paper will contain questions equally distributed in all units. The balance of the paper will be maintained by including appropriate (Numerical/objective/conceptual/analytical/theoretical) combination of subsection in each question.

**Unit - I**

Evolution of an operating system, Define Operating system, objectives and functions of an operating system , the operating system as a resource manager, types of an operating system. Differentiate Dos, windows and linux/Unix, Internal and External DOS commands, file structure of DOS.

Introduction to Windows-XP : Windows XP features, windows Desktop Setting, managing windows explorer.

**UNIT -II**

Windows-XP: Using Taskbar, Start Menu options, My Computer, Recycle Bin, My Network Place, My Documents.creating user Accounts in win-XP.

Windows Accessories: - Calculator, Note Pad, Word Pad, Paint, Entertainment, Address Book.

**Unit - III**

Control Panel: Installation of Software ,Addition of new hardware, installation of modem, Sound card, Printers and Scanner, Date and time, taskbar and start menu.

Windows Explorer: Creating a new folders and other explore facilities, changing the look and feel of windows(desktop, wallpaper, screen saver etc.).

**Unit - IV**

Linux: Features, Structure of file system, Linux system architecture( Kernel and Shell).

Linux Command: - How to create and manage a text file in linux, cat, pwd, ls, mkdir, cd, , rm, rmdir, cp, who, mv, tty, sty, chmod.

Utilities: more, file, cmp, comm., diff, passwd, uname, cal, bc.

Filter and Pipe: pr, head, tail, grep, egrep, frep, tr.

**Unit - V**

MS-WORD: Define word processor ,types of word processor,creating document in MS word,formatting features of MS-word, word standard toolbar ,text formatting, header and footer, auto text,document security features,table handling features, insertion of files and pictures ,mail merge and macros.

Books:

1. Microsoft windows XP STEP BY STEP - PHI
2. operating system - William Stallings - Pearson Education
3. Unix operating System - Sumitabha Das - Tata McGraw Hill
4. Introduction to computers - Norton - McGraw Hill
5. Microsoft office : Ron Mansfield - BPB publication

### **B.Com - CS-2401**

#### **Introduction to Information System**

##### **Objective:**

The objective of this course is to cover the structure of an organization, importance of information and the systems needed for effective capture, store, retrieve, process and analyze information.

##### **Examination:**

The External examination will be of 35 marks. The question paper will contain questions equally distributed in all units. The balance of the paper will be maintained by including appropriate (Numerical/objective/conceptual/analytical/theoretical) combination of subsection in each question.

##### **Unit-I**

Information concepts, system & modeling concepts, what is information system, business information system, system development, need to learn information system, organization & information system, competitive advantage, performance based information system, careers in information systems.

##### **Unit-II**

H/W: Component, processing & memory devices, secondary storage, input and output devices

S/W: Overview of S/W, system & application S/W, programming languages, S/W issues & trends

##### **Unit-III**

Data management, data modeling and database models, database management systems, database applications

##### **Unit-IV**

Overview of Communication systems, telecommunication, network & distributed processing, telecommunication & application

Use & functioning of the Internet, Internet services, WWW, intranets & extranets, Net issues

##### **Unit-V**

Introduction to E-Commerce, types of e-commerce, e-commerce, e-commerce application, Electronic Payment System, technologically infrastructure of E-Commerce, trends to E-Commerce, strategy for successive E-Commerce, Computer Waste and Mistakes, computer crimes, privet..?, work environment.

Books:

1. Principal of Information System: Ralph Stair (Thomson course technology)

## B.Com - CS-1502

### PC SOFTWARES

#### **Objective:**

The objective of this course is to make the student understand concepts of Fundamentals of computer & Information Technology. The main emphasis of the course is to understand the basics of computer and office tools.

#### **Examination:**

The External examination will be of 35 marks. The question paper will contain questions equally distributed in all units. The balance of the paper will be maintained by including appropriate Numerical/objective/conceptual/analytical/theoretical) combination of subsection in each question.

#### **Unit - I**

Algorithm for problem solving: An Introduction, Properties of an algorithm, Classification, Algorithm logic, Flowchart.

Component of information system, Types of programming languages, Assembler, compiler, Interpreter, Linker, Loader, types of software, Computer ware, Define Operating system, Classification of an operating system, objectives and functions of an operating system, the operating system as a resource manager.

#### **Unit - II**

Define Information system, Basic concept of information system, organization structure and IT support, different organizational levels managing IT in organization, career path of it peoples.

MS-Excel: worksheet basics, creating worksheet, entering data into worksheet, heading information, data, text, dates, alphanumeric, values.

#### **Unit - III**

MS-Excel:

saving and quitting worksheet, opening and moving in an worksheet, toolbar and menus, working with formulas and cell referencing, Autosum, Absolute and relative addressing, working with graph, functions, pivot table, data sort ,data filter.

#### **Unit - IV**

MS-PowerPoint - creating presentation using slide master, working with different view and menus, editing and formatting text, slide time management process, inserting datas and pictures.

#### **Unit - V**

Define Internet, internet Browsers, introduction to ISPs, Domain naming system, WWW, URL, working with FTP, introduction to firewalls, popup blockers, virus and Antivirus programes, Email Basics - working principle of email system, types of email, mailbox and addresses, carbon copies, SMTP, POP3.

#### **Reference Books :-**

1. Fundamentals of information technology - Alexis leon - Leon Techword and vikash publishing house.
2. Introduction to Information Technology - Turban, Rainer, Potter - Wiley India Edition.
3. computer networks and Internets - Comer - Pearson Education Asia
4. Computer fundamentals - P.K. Sinha - BPB Publication.
5. Microsoft office - Ron Mansfield, BPB Publication.