

RANI CHANNAMMA UNIVERSITY, BELAGAVI

Revised syllabus of BA/BSW/BSc IV Semester Computer Applications
(Compulsory Paper) w.e.f 2018-19 and onwards

Name of the Subject: COMPUTER APPLICATION (Compulsory Paper) Contact Hrs: 52

Subject Code: Contact Weekly hours: 4

Marks: Main Exam: 80 IA: 20

UNIT-I 10Hrs

Introduction: Computer, data processing, characteristic features of computers, computer evolution to present form, computer generation. **Basic computer organization:** Basic operations performed by computers, basic organization of computer system, input units and its functions, output units and its functions, storage units and its functions, types of storage. **Number systems:** non-positional number system, positional number system, decimal, binary, octal, and hexadecimal number systems. Conversion from decimal to binary and vice-versa for integer numbers only

UNIT- II 10Hrs

Processor and memory: Internal structure of processor, memory structure, types of processors, main memory organization, random access memory, read only memory, cache memory. **Secondary storage:** secondary storage devices and their needs, commonly used secondary storage devices, sequential and direct access storage devices, basic principles of commonly used secondary storage devices (magnetic disk, optical disk, flash drives, memory card, disk array). **IO devices:** commonly used input output (IO) devices.

UNIT- III 10Hrs

Software: Software and its relationship with hardware, types of software, relationship among hardware, system software, application software and users of computer systems, steps involved in software development, firmware, middleware. **Overview of operating system:** Definition, functions of operating system, concept of multiprogramming, multitasking, multithreading, multiprocessing, time-sharing, real time, single-user & multi-user operating system.

UNIT- IV 12Hrs

Overview of Networking: An introduction to computer networking, Network types (LAN, WAN, MAN), Network topologies, Modes of data transmission, Forms of data transmission, Transmission channels (media). **Fundamentals of Electronic Mail:** Basic email facts, Email advantages and disadvantages, Email addresses, passwords, and userids, Mailer features, Email inner workings, Email management, Multipurpose Internet Mail Extensions (MIME). **Browsing and Publishing:** Browser Bare Bones, Coast-to-Coast Surfing, Hypertext Markup Language: Introduction, Web Page Installation, Web Page Setup HTML, HTML Formatting and Hyperlink Creation.

UNIT- V 10Hrs

The Internet: What is the Internet?, The Internet Defined, Internet History, The Way the Internet Works, Internet Congestion, Internet Culture, Business Culture and the Internet, Collaborative Computing and the Internet. **The World Wide Web:** The World Wide Web Defined, Web Browser Details, Web Writing Styles, Web Presentation Outline, Design, and Management, Registering Web Pages, Lynx: Text-Based Web Browser, Searching the World Wide Web: Directories, Search Engines,

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and Metasearch Engines, Search Fundamentals, Search Strategies. Telnet and FTP: Telnet and Remote Login, File Transfer, Computer Viruses.

References:

1. P. K. Sinha and Priti Sinha, Computer Fundamentals, Sixth Edition, BPB publications.
2. Rajaraman V., Introduction to Information Technology, 2nd Edition, PHI
3. S. K. Basandra, Computers Today , Galgotia Publications.
4. Xavier, C "Introduction to Computers and Basic Programming" New age International.
5. Rajaraman, V., Adabala, Neeharika, Fundamentals of Computers, PHI
6. Raymond Greenlaw, , Ellen Hepp, Inline/Online: Fundamentals of the Internet and the World Wide Web, 2/e, McGraw Hill Education;
7. Dietil and Dietil, Nieto, Internet and world wide web programming, Pearson Education
8. Sai Satish, Yash Patel, Srinivas Rao, Lokesh Reddy, Exploring Internet, Jai Sharma, Indian Servers
9. Gill, Nasib Singh: Essentials of Computer and Network Technology, Khanna Books Publishing Co., New Delhi
10. Norton, Peter, Introduction to Computer, McGraw-Hill.

Question Paper Pattern

Scheme of instruction and examination

Semester	Title of the Paper	Theory Hours	Theory Marks	I.A.Marks	Exam Hrs	Total Marks
IV	Computer Application (Compulsory Paper)	52	80	20	1.5	100

Note: The final examination is based on Multiple Choice Questions. Each unit shall carry equal weightage during the preparation of the question paper.