CSE213: INTRODUCTION TO INFORMATION TECHNOLOGY

Hours/Week: 3 I.A. Marks: 30

Credits: 3 Exam. Marks: 70

Course Learning objectives: Students will able to try,

1. Understanding of Information Systems (IS) and their role in organizations;
2. Develop knowledge of capabilities of generic software.
3. Introduce the business areas to which computers may be applied.
4. Provide a basic knowledge of computer hardware and software.

Course Outcomes: After completing the course, the students will be able to,

CO1: Acquire the knowledge about the basic knowledge of computer systems
CO2: Learn the essential requirements of the number systems.
CO3: Understanding the fundamentals of Operating systems and database.
CO4: Aware of computer networks and internetworking.
CO5: Understand the usage of MS - office.
CO6: Understand the basic knowledge of computer hardware and software.
CO7: Understand the main issues related to information policy and strategy

---

UNIT-I 9 Hrs.

Introduction to Computers: History, Generations of Computers, Application of computers in various fields, Classification of computers Block diagram of a computer, Input and output devices – Keyboard, Mouse and other input devices, Output devices – Monitor, Printer and Audio output devices, Storage devices – Primary and secondary storage – RAM, ROM and its types, Magnetic storage devices, Optical Storage devices, measuring device performance. Digital computers and Digital system: Number systems, Number base conversion, Complements, Binary codes, Binary arithmetic's.

UNIT-II 9 Hrs.

Operating system: Definition of Operating System - Functions of OS - Types of OS: Single user, Multi-User, multi-task, RTOS, Single-user, Multi-tasking. Database Management System Concepts: Introduction, Database System Applications; Data Modeling for a Database; Entities and their Attributes, Relationships and Relationships Types, Advantages and Disadvantages of Database Management System. Introduction to RDBMS.

UNIT-III 9 Hrs.

Introduction to Computer Networks – Network elements, Objectives and applications of networks, Network types – LAN, WAN and MAN, intranet v/s Internet, Network topologies, Internet services – E-mail, browsing, File services. Web designing using HTML: Introduction to HTML, HTML tags, Different types of list – ordered, unordered and definition, linking multiple web pages, Tables in HTML.

UNIT-IV 9 Hrs.

Word Processing: Typing, Editing, Proofing & Reviewing, Formatting Text & Paragraphs, Automatic Formatting and Styles, Working with Tables, Graphics and Frames, Mail Merge, Automating Your Work & printing Documents. Excel Spreadsheet: Working & Editing in Workbooks, Creating Formats & Links, Formatting a Worksheet & creating graphic objects: Creating Charts (Graphs), formatting and analyzing data, Organizing Data in a List (Data

Management), Sharing & Importing Data, Printing. MS Power point: Introduction to presentation – Adding Graphics to the Presentation, Adding Effects to the Presentation- Setting Animation & transition effect.

.

REFERENCE BOOKS:

1. M.M. Mano, Digital Logic and Computer Design,III edition ,Pearson Education.
2. V.Rajaraman, Fundamentals of Computers, Third Edition, PHI, New Delhi,.
3. T.C.Bartee, Computer Architecture and logical Design, McGraw Hill.
4. C. J. Date, A. Kannan and S. Swamynathan, An Introduction to Database Systems, Pearson Education, Eighth Edition.
5. AtulKahate, Introduction to Database Management Systems, Pearson.
6. Jennifer Niederst Robbins, Learning Web Design, Oreilly Fourth Edition
7. Jon Duckett, Beginning HTML, XHTML, CSS, and JavaScript,Wrox Press Ltd
8. Bill Jelen,Power of EXCEL with MrExcell,Holy Macro! Books
9. Peter Weverka, Office 2019 A L L - I N - O N E for dummies,For Dummies.