

Lesson Plan July-Dec 2018

Name: Monika

Class: BCA V Sem

Subject: Data Communication and Networking

Paper Code: BCA-303

Month	Syllabus to be covered
16 July to 21 July	Unit-I: Introduction to Computer Communications and Networking Technologies; Uses of Computer Networks; Network Devices, Nodes, and Hosts;
23 July to 28 July	Types of Computer Networks and their Topologies; Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services;
30 July to 4 Aug	Network Applications and Application Protocols; Computer Communications and Networking Models: Decentralized and Centralized Systems,
6 Aug to 11 Aug	Distributed Systems, Client/Server Model, Peer-to-Peer Model, WebBased Model,
13 Aug to 18 Aug	Network Architecture and the OSI Reference Model, TCP/IP reference model, Example Networks: The Internet, X.25, Frame Relay, ATM.
20 Aug to 25 Aug	Unit 3: Data Link Layer: Framing, Flow Control, Error Control; Error Detection and Correction; Assignment-1
27 Aug to 1 Sep	Sliding Window Protocols; Media Access Control: Random Access Protocols, Token Passing Protocols; Token Ring;
3 Sep to 8 Sep	Introduction to LAN technologies: Ethernet, switched Ethernet, VLAN, fast Ethernet, gigabit Ethernet, token ring, FDDI, Wireless LANs; Bluetooth;
10 Sep to 15 Sep	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways. Test 1: Unit 1 and 3
17 Sep to 22 Sep	Unit-4: Network Layer and Routing Concepts: Virtual Circuits and Datagrams; Routing Algorithms: Flooding, Shortest Path Routing,
24 Sep to 29 Sep	Distance Vector Routing; Link State Routing, Hierarchical Routing; Congestion Control Algorithms; Internetworking; Assignment 2
1 Oct to 6 Oct	Network Security Issues: Security threats; Encryption Methods; Authentication; Symmetric – Key Algorithms; Public-Key Algorithms.
8 Oct to 13 Oct	Unit-2: Analog and Digital Communications Concepts: Concept of data, signal, channel, bid-rate , maximum data-rate of channel, Representing Data as Analog Signals, Representing Data as Digital Signals,

15 Oct to 20 Oct	Asynchronous and synchronous transmission, data encoding techniques, Modulation techniques, Digital Carrier Systems; Data Rate and Bandwidth, Capacity, Baud Rate;
22 Oct to 27 Oct	Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing; Dialup Networking; Analog Modem Concepts; DSL Service.
29 Oct to 3 Nov & 5 Nov	Revision Test 2-Unit 4 and 2
6 Nov to 13 Nov	Vacations

Lesson Plan July-Dec 2018

Name: Monika

Class: B.Sc Maths(H) I Sem

Subject: Computer Fundamentals and MS-OFFICE

Paper Code: BHM-116

Month	Syllabus to be covered
16 July to 21 July	Unit-1 Fundamentals of Computer: Model of a digital computer, Functioning of a digital computer, concepts of Virtual and Cache memory, Types of software, Application and system software and its functions, time sharing, multiprocessing, Applications of Computer.
23 July to 28 July	Historical evolution of computers, classification of computers, Human being vs computer,
30 July to 4 Aug	Input / Output devices, Storage devices, Memory and mass storage devices, characteristics of memory systems, types of memory, RAM, ROM,
6 Aug to 11 Aug	Concepts of Virtual and Cache memory, Types of software, Application and system software and its functions, time sharing, multiprocessing, Applications of Computer.
13 Aug to 18 Aug	Time sharing, multiprocessing, Applications of Computer. Assignment-1
20 Aug to 25 Aug	Unit-2: Introduction to Windows: Types of windows, windows as an operating system, windows explorer,
27 Aug to 1 Sep	Using clipboard, using paintbrush, control panel, installing a printer.
3 Sep to 8 Sep	MS Power Point: Introduction, Power point slide creation, Slide-show,
10 Sep to 15 Sep	Adding graphics, Formatting Customizing and Printing. Test: Unit 1 and 2
17 Sep to 22 Sep	Unit-3: MS-Word: Introduction to MS-Word, Standard Toolbar, Word Wrap, ,
24 Sep to 29 Sep	Text formatting, Indents, Tabs, Formatting paragraphs
1 Oct to 6 Oct	Applying Effects to text, Applying animation to text. Assignment-2

8 Oct to 13 Oct	Unit-4: MS Excel: Introduction to MS Excel, Working with Toolbars,
15 Oct to 20 Oct	Formatting, Formulas, Data management,
22 Oct to 27 Oct	Graphs and Charts, Macros and other additional functions.
29 Oct to 3 Nov & 5 Nov	Revision Test: Unit 3 and 4
6 Nov to 13 Nov	Vacations