

Department Name	School of Studies in Computer science and IT
Course	Choice Based Course II Semester
Paper Name	COMPUTER NETWORKING & INTRODUCTION TO HTML
Total Credit: 03	Total Marks: 100 (80 Theory + 20 Internal)
	Minimum Theory Marks : 16

COMPUTER NETWORKING & INTRODUCTION TO HTML

Course Outcome

Networking Concept: Basics of Computer networks: Communication process, Communication media, network topologies, Types of network (LAN, WAN, MAN), Modem, Ethernet, Bridge, Switch, Hub and Routers. Internet: Basic Internet Terminologies. Client server computing, Distributed Computing, Domain naming system, DNS Server, Internet Security, Internet Applications. Architecture of Internet, Client server model, web browser, www, Email, E-commerce and E-business.

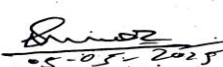
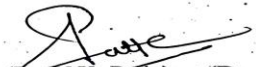
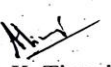
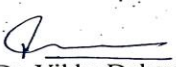
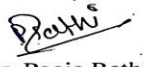

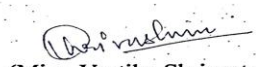
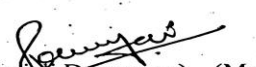
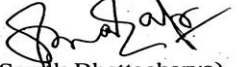
The OSI Model- The model-Layered architecture, functions of the layers- Physical layer, Data Link layer, Network layer, Transport layer, session layer, Presentation layer, Application layer; the TCP/IP reference model, comparison of TCP/IP & OSI, Novell Netware, Arpanet, NSFNET.

Transmission of Digital Data- Analog and Digital, digital data transmission- parallel transmission, serial transmission, DTE-DCE interface data terminal equipment, data circuit terminating equipment, standards, modems-Transmission rate, Modem standards.

HTML- What is HTML, HTML documents/files. HTML Editor, explanation of the structure of home page, elements in HTML document, HTML elements, HTML tags and basic HTML tags, viewing the source of webpage. Downloading the Web Pages source Image, internal and external linking between web pages- IMG elements, Designing webpage, working with views, Hyperlinks, setting Hyperlink, using List, themes, tables, Frames, style sheet, working with forms, anchor, working with banners, Introducing web page, website, webspace, How to publishing web pages in local area network.

BOOKS RECOMMENDED:

1. Introduction to Data Communication & Networking : Behrouz & Forouzan
2. Web Publishing : Monika D'souza & Jude D'souza
3. Computer Network : A. S. Tanenbaum
4. Complete Reference HTML

 (Dr. Sanjay Kumar)	 (Dr. V.K. Patle)	 (Dr. A.K. Tiwari)	 (Dr. Vibha Dubey)	 (Dr. Pooja-Rathi)
 (Mr. Manu Rawani)	 (Miss. Vartika Shrivastav)	 (Dr. Pranshu Dewangan)	 (Mr. Sanik Bhattacharya)	

Department Name	School of Studies in Computer science and IT
Course	Choice Based Course III Semester
Paper Name	ESSENTIAL OF INFORMATION TECHNOLOGY
Total Credit: 03	Total Marks: 100 (80 Theory + 20 Internal)
	Minimum Theory Marks : 16

ESSENTIAL OF INFORMATION TECHNOLOGY

Course Outcome

Introduction to Computers: Definition, Characteristics and capabilities of computer system: Speed, Accuracy, Reliability, Memory capability. Block Diagram of a Computer, Computer Hardware and Software, Different Types of Software. Types of Computers: Analog, Digital, Hybrid General and Special Purpose Computers. Generation of Computers.

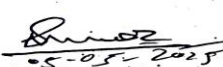
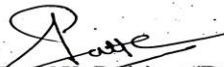
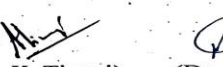

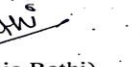

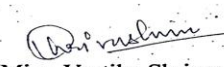
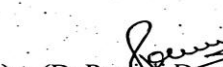
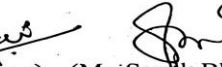
Computer Organization: Input Devices: Keyboard, Card Readers. Scanning Devices – O.M.R., Character Readers, MICR and Smart Cards. Pointing Devices-Mouse, Light Pen. **Output Devices:** Printers, Plotters, **Central Processing Unit:** The Microprocessor, control unit, A.L.U., Main Memory, Random Access Memory, and Read Only Memory (ROM).

Operating System: Software-Types of Software, System software Vs. Application Software, Operating system and its types. Language Processors, Assembler, Compiler & Interpreter. Introduction of DOS: DOS, System Files. Internal and External DOS Commands.

Office Automation: MS-Word: - Creating and editing word document, formatting documents, word art, graph, mail merge. **MS-Excel:** Introduction to spread sheet, formatting in cell and text, functions, creating chart and graph. **MS-PowerPoint:** creating presentation, working with slides, slide transition, animating object.

BOOKS RECOMMENDED:

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| 1. Using IT | : Williams, TMH |
| 2. Computer Fundamentals | : B. Ram, New Age International (P) Ltd |
| 3. Fundamental of Information Technology | : Chetan Shrivastava_Kalyani Publishers |
| 4. Computer Fundamentals | : P.K Sinha, BPB Publications |

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