



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

**Syllabus of the Minor Subject
Fundamentals of Information Technology
For First and Second year of B.A./B.Sc./B.Com**

Syllabus Developed by				
SN	Name of Expert/BoS Member	Designation	Department	College/ University



Programme/Class: Certificate		Year: First	Semester: I and II
Subject: Minor (Elective)			
Course Code: M040101T		Course Title: Fundamentals of Information Technology	
Credits: 05		Minor / Elective	
Max. Marks: 25+75		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0			
Unit	Topics	No. of Lectures	
I	Computer characteristics: Speed, storage, accuracy, diligence; Digital signals, Binary System, ASCII; Historic Evolution of Computers; Classification of computers: Microcomputer, Minicomputer, mainframes, Supercomputers; Personal computers: Desktop, Laptops, Palmtop, Tablet; Hardware & Software; Von Neumann model.	18	
II	Hardware: CPU, Memory, Input devices, output devices. Memory units: RAM (SDRAM, DDR RAM, RDRAM etc. feature wise comparison only); ROM-different types: Flash memory; Auxiliary storage: Magnetic devices, Optical Devices; Floppy, Hard disk, Memory stick, CD, DVD, CD/DVD-Writer; Input devices - keyboard, mouse, scanner, speech input devices, digital camera, Touch screen Voice Input, Joystick, Optical readers, bar code reader; Output devices: Display device, size and resolution; CRT, LCD, LED; Printers-Inkjet, Laser; Plotters, Sound cards & speaker.	20	
III	Computer Networks and Internet: Connecting computers, Requirements for a network: Server, Workstation, switch, router, network operating systems; Internet: brief history, World Wide Web, Websites, URL, browsers, search engines, search tips; Internet connections: ISP, Dial-up, cable modem, WLL, DSL, leased line Wireless and Wi-Fi connectivity ; email, email software features (send receive, filter, attach, forward, copy, blind copy); characteristics of web-based systems, Web pages, Web Programming Languages.	20	

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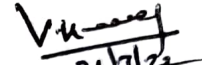
IV	Information Technology And Society: Indian IT Act, Intellectual Property Rights, issues. Application of information Technology in Railways, Airlines, Banking, Insurance, Inventory Control, Financial systems, Hotel management, Education, Video games, Telephone exchanges, Mobile phones, Information kiosks, special effects in Movies.	17
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SUGGESTED BOOKS:

1. Computer Concepts and Programming in C, R.S. Salaria, Khanna Publishing House
2. Handbook of Computer Fundamentals, N.S. Gill, Khanna Publishing House




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