



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Vocation (B.Voc), 3rd Semester

Branch: Information Technology

Subject Name: Peripherals & Basic of IT

Subject Code: 1130504

Type of course: Core

Prerequisite: Basic peripheral devices of computer.

Rationale: This course provides the knowledge necessary to understand Peripherals and basics of information and technology. It covers the basic underlying concepts and techniques recently used in the IT industry. After going through this course student will understand the core functionalities of computer, CPU and able to use and operate software, internet, operating systems.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical		
			ESE (E)	PA(M)	ESE (V)	PA (I)		
3	0	0	3	50	0	0	0	50

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Content:

Sr. No.	Content	Hrs.	Weightage (%)
1.	Unit1: Computer characteristics: Historic Evolution of Computers; Classification of computers: Microcomputer, Minicomputer, mainframes, Supercomputers; Personal computers: Desktop, Laptops, Palmtop, Tablet PC; Hardware & Software; Speed, storage, accuracy, diligence.	05	10
2.	Unit2: CPU CPU, Memory, Input devices, output devices. Memory units: RAM (SDRAM, DDRAM, RDRAM etc. featurewise comparison only); ROM - different types: Flash memory; Auxiliary storage: Magnetic devices, Optical Devices; Floppy, Harddisk, Memory stick, CD, DVD, CD-Writer; Input devices- keyboard, mouse, scanner, speech input devices, digital camera, Touch screen, Joystick, Optical readers, bar code reader; Output devices: Display device, size and resolution; CRT, LCD; Printers: Dot matrix, Inkjet, Laser; Plotters, Sound Cards & speaker.	15	30
3.	Unit3: Software System software, Application software; concepts of files and folders, Introduction to Operating systems, Different types of operating systems: single user, multi-tasking, time sharing multi-user; Booting, POST.	08	20
4.	Unit4: Operating Systems Windows & Linux; Application software: Generic Features of Word processors, Spread sheets and Presentation software; Computer Viruses & Protection.	10	30



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5.	Unit5:Internet History of internet, The early years, The global Internet, A global information infrastructure, Basics of IP Address & Domain Names, Basics of Protocols.	04	10
	Total	42	100

Suggested Specification Table with Marks (Theory): (For B.VOC. only)

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	20	20	0	0	0

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate and above Levels (Bloom's Taxonomy)

Course Outcomes:

Sr. No.	CO Statement	Marks% Weightage
CO-1	Basic fundamentals of computer and its generations, working with technologies.	10
CO-2	Working with central processing unit, getting the knowledge regarding fundamentals of components and other peripherals.	30
CO-3	The fundamental knowledge about software and its types and features, and other peripherals.	20
CO-4	Software features and types of software, viruses and protection parameters.	30
CO-5	History of internet and its early stages, ip addresses and domain name, and basic protocols	10

Laboratory work: NA

Reference Books:

1. Fundamentals of Computers, E. Balaguruswamy, McGraw hill, 2014.
2. Information Technology: The Breaking wave, Dennis P Curtain, McGraw hill, 2014.
3. Introduction to Computers, Peter Norton, McGraw Hill, 2010.
4. Fundamentals of Information Technology, Durgesh Pant, Mahesh Kumar Sharma, Laxmi Publication, 2008.
5. Internet and World wide web programming: How to Program, HM Deitel, P J Deitel, ABGoldberg, Pearson, 2007.

List of Open-Source Software/learning website:

Students must refer to following sites to enhance their learning ability.

1. www.tutorialspoint.com
2. www.coursera.org
3. www.geeksforgeeks.com
4. www.study.com