



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Diploma in Vocation (D.Voc), 4th Semester
Branch: Software Development
Subject Name: Maintenance of Computer Systems
Subject Code: 1240204

**With effective
from academic
year 2018-19**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	P	OJT		Theory		Tutorial/ Practical		
			University exams (ESE)	Progressive Assessment (PA)	External Practical /viva Exam(ESE)	Internal evaluation Practical /viva Exam(PA)		
3	-	-	3	50	-	-	-	50

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

Course Content:

Sr. No.	Content	Hours
1.	OSI Physical Layer – Physical Layer, Communication Signals, Physical Signaling and Encoding: Representing Bits, Physical Media: Connecting Communication Ethernet – Overview of Ethernet, Ethernet: Communication through the LAN, Ethernet Frame Ethernet MAC, Ethernet Physical Layer, Hubs and Switches, Address Resolution Protocol (ARP)	15
2.	Planning and Cabling Networks -LANs: Making the Physical Connection, Device Interconnections, developing an Addressing Scheme, Calculating the Subnets, Device Interconnections Configuring and Testing Your Network -Configuring Devices, applying a Basic Configuration, Verifying Connectivity, Monitoring and Documenting Networks	24
	Total Hours:	39

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	20	15	5	5

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

1. Reference Book(s):

1. Mastering PC Hardware & Networking, Ajit Mittal, Khanna Publishing House