



C. U. SHAH UNIVERSITY
Wadhwan City

FACULTY OF:-Computer Science
DEPARTMENT OF:-B. Sc. (CA & IT)
SEMESTER:- V
CODE: - 4CS05NWT1
NAME: – Networking

Teaching and Evaluation Scheme

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
4CS05N WT1	<u>Networking</u>	4	0	0	4	4	30	15	70	30	100	30	20	50

Objectives:-

- To

Prerequisites:-

- Knowledge

Course outline:-

Sr. No.	Course content	Hours
1	Networking Basics Concept and Objectives of Network, Network Services, Network Model, Client Server, Peer to Peer, Types of Network LAN, MAN, WAN, PAN, CAN, Data communication and its effectiveness Components of Data communication	10
2	Addressing and Topologies Introduction to Internet and Intranet Internet connection requirement <ul style="list-style-type: none"> ○ Dial up ○ Leased Line ○ ISDN ○ ADSL ○ Cable modem IPv4 and IPv6 <ul style="list-style-type: none"> • DNS • Data Flow Modes 	18



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	<ul style="list-style-type: none">• Simplex• Half-duplex• Full-duplex Transmission Modes <ul style="list-style-type: none">• Serial• Parallel	
3	Transmission Media <ul style="list-style-type: none">• Transmission Media• Guided (wired)• Twisted pair• Coaxial• Fiber optic• Unguided(wireless)• Free Space	12
4	OSI REFERENCE MODEL AND TCP /IP Protocol	08
	TOTAL	48

Learning Outcomes:

- Learn the basics of Networking Technology

Teaching & Learning Methodology:

- Using Whiteboard & Multimedia or OHP

Books Recommended:

1. Tenanbamb for Networking
2. Microsoft Book “Basics of Networking”