



Swarnandhra College of Engineering & Technology

Autonomous and recognized under 2(F) and 12(B) by UGC

Recognized by AICTE, permanently affiliated to JNTUK Kakinada

Accredited by NAAC with 'A' Grade (2nd Cycle)

Seetharamapuram, Narsapur – 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement
23CS5T02	COMPUTER NETWORKS	VI	CS-DS	6	2025-2026	09-07-2025

COURSE OUTCOMES

1	To provide insight about networks, topologies, and the key concepts.(K2)
2	To gain comprehensive knowledge about the layered communication architectures (OSI and TCP/IP and its functionalities. (K3)
3	To understand the principles, key protocols, design issues, and significance of each layers in ISO and TCP/IP. (K4)
4	To know the basic concepts of network services and various network applications(K1)

UNIT	Out Comes / Bloom's Level	Topics No.	Topics/ Activity	Text Book/ Reference	Contact Hour	Delivery Method
I	CO – 1	1.1	Network Types. LAN, MAN, WAN,	T1	1	Chalk & Board Power point presentations Assignment Test
		1.2	Network Topologies Reference Models	T1	1	
		1.3	The OSI Reference Model	T1,R1	1	
		1.4	The TCP/IP Reference Model	T1	1	
		1.5	Types A Comparison Of The OSI And TCP/IP Reference Models	T1	1	
		1.6	OSI Vs TCP/IP.	T1,R1	1	
		1.7	Physical Layer	T1,R1	1	
		1.8	Introduction To Guided Media	T1	1	
		1.9	Twisted-Pair Cable, Coaxial Cable Optic Cable& Fiber Optical	T1	1	
		1.10	Introduction About Unguided Media	T1	1	
Content beyond syllabus		1.11	Network Types& Physical Layer	R1	1	
Total					11	
		2.1	Data Link Layer Design Issues	T1,T2	1	
		2.2	Framing	T1,T2	1	
		2.3	Fixed Size Framing, Variable Size Framing	T1,T2	1	
		2.4	Flow Control & Error Control	T1,T2	1	
		2.5	Error Detection And Correction Codes	T1,T2	1	
		2.6	CRC	T1,T2	1	