

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)
Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

			<u>T</u>	EACHING PLAN			
Cou Coo	NAME AND ADDRESS OF THE OWNER, THE PARTY OF THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER,	CONTRACTOR OF THE PARTY.	emester	Branch	Contact Periods /Week	Academic Year	Date of commence ment of Semester
20CS	5T01 Compu Networ		v	AI&ML	6	2024-25	05-06-2024
Pre-re	quisites:			, , ,		•	
COUR	SE OUTCOME	S					
C01	Differentiate	network	reference i	models such as OSI, To	CP/IP (K2)	14	
CO2		ous Data	Link Laye	r protocols such as Err			
CO3	Distinguish v CSMA, CSM			yer Protocols such as A	LOHA,		i i
CO4	Differentiate cols and Its A			yer and Transport laye	r proto-		
CO5	Illustrate vari HTTP etc. (K		ication laye	er protocols such as W	WW and		3. 94
Unit	Out Comes / Bloom's Level	Topic		Topics/Activity	Text Book Reference		Delivery Method
			UNIT	-I: Data Communica	tion		
	CO1:	1.1.1	Compone	nts .	T1,T3	1	Chalk ,talk
	Differentiate network	1.1.2	Data Repr	resentation	T1,T3	1	Chalk ,talk
	reference models such	1.1.3	duplex an	(Simplex, Half- d Full-Duplex)	T1,T3	, 1	Chalk ,talk
I	as OSI, TCP/IP (K2)	1.1.4		connections: Point to Multipoint	T1,T3	1	Chalk ,talk
	. 01/11 (102)	1.1.5	Various C Topologie	ategories of	T1,T3	1	Chalk ,talk
							Chalk

T1,T3

,Talk

1

Categories of Networks

1.1.6



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		1.1.7	Protocols and Standards	T1,T3	1	Chalk, Talk
		1.1.8,	OSI network model	T1,T3	2	Chalk, Talk
-	J#6	1.1.9	TCP/IP Protocol Suite	T1,T3	2	Chalk, Talk
	1969	1.2.0	Transmission Media (Twisted pair cable, Coaxial cable and Fiber-optic cable)	T1,T3	1	Chalk, Talk
	Revisio	n of Da	ta communication		1	Chalk ,talk, ppt
				Total	I	13
		€ , e . r. ii	UNIT-II: Data Link Lay	er		ă.
		2.1.1	Error Detection and Error Correction -Introduction	T2,R1	1	Chalk ,talk
	CO2:	2.1.2	Block coding	T2	1	Chalk ,talk
	Classify	2.2.1	Er- ror Detection	T2	1	Chalk ,talk
	various	2.2.2	Error Correction	T2	1	Chalk ,talk
	Data Link	2.2.3	Hamming Distance	T2	1	Chalk ,talk
	Layer	2.3.1	Minimum Hamming Distance	T2	1	Chalk ,talk
п	protocols	2.3.2	Cyclic Codes	T2,R1	1	Chalk ,talk
11	such as Error Detection	2.3.3	Cyclic Redundancy check (CRC)	T2,R1	1	Chalk ,talk
	and	2.3.4	Checksum	T2,R1	1	Chalk ,talk
	correction	2.3.5	Framing	T2,R1	1	Chalk ,talk
	(K2)	2.3.6	Flow control and Error control	T2	2	Chalk ,talk
		Revisio	on of Data Link Layer		1	Chalk ,talk, ppt
	-		Total			13
	U	NIT-III	I: Medium Access Sub Layer &	Network La	yer	9
1	CO3: Distinguish various	3.1.1	Random Access protocols – ALOHA, Pure ALOHA, Slotted ALOHA	T2,R1	. 2	Chalk ,talk
III -	MAC sub layer	3.1.2	Carrier Sense Multiple Access (CSMA)	T2,R1	1	Chalk ,talk
	Protocols such as	3.1.3	1-persistent CSMA, Nonpersistent CSMA.	T2,R1	1 .	Chalk ,talk
	ALOHA, CSMA,	3.1.4	p-Persistent CSMA, CSMA/CD,	T2,R1	2	Chalk ,talk



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	CSMA/CD	3.1.5	CDMA/CA	T2,R1	1	Chalk ,talk
	(K2)	3.2.1	Logical addressing	T2,R1	1	Chalk ,talk
	()	3.2.2		T2,R1	1	Chalk ,talk
		3.2.3	Classful and Classless	T2,R1	1	Chalk ,talk
			Network Address Translation (NAT)	T2	1	Chalk ,talk
		ł	IPV6 Addresses-Structure and Address space	T2	1	Chalk ,talk
			Address Mapping: ARP, RARP, BOOTP and DHCP	T2	1	Chalk ,talk
_	Rev	ision o	f MAC sub layer protocols	-	1	Chalk ,talk, ppt
				Total		14
			UNIT-IV: Transport Laye	er		
-7.	CO4:	4.1.1	Process to Process Communication	T2	1	Chalk ,talk
le grant g	Differen	4.1.2	User Datagram Protocol (UDP)	T2	1	Chalk ,talk
1	tiate	4.1.3	UDP Format, uses of UDP	T2	- 1	Chalk ,talk
	various Network	4.1.4	Transmission Control Protocol (TCP)	T2	1	Chalk ,talk
IV	layer and	4.1.5	TCP Services, TCP Fea- tures	T2,R2	1	Chalk ,talk
	Transport	4.1.6	TCP Segment	T2,R2	1	Chalk ,talk
	layer proto-	4.1.7	Quality of Service	T2,R2	1	Chalk ,talk
	cols and	4.1.8	QoS improving techniques	T2,R2	1	Chalk ,talk
	Its Applications	4.1.9	Leaky Bucket and Token Bucket algorithm	T2,R2	2	Chalk ,talk
	Revis	ion of T	Fransport Layer	T2	1	Chalk ,talk, ppt
		4		Total		11
			UNIT-V: Application Laye	er	_	
	CO5:	5.1.1	Domain Name System (DNS)	T2	1	Chalk ,talk
	Demonstrat	5.1.2	Domain Name Space	T2	1	Chalk ,talk
V	e the	5.1.3	Distribution of Name Space	T2	1	Chalk ,talk
•	implementa	5.2.1	Remote Logging	T2	1	Chalk ,talk
	tion of	5.2.2	TELNET	T2	2	Chalk ,talk
	Advanced	5.2.3	ELECTRONIC MAIL	T2	2	Chalk ,talk



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0			tharampuram, W.G.DT., Narsap	T2	1	Chalk ,talk
	Behavioral	5.3.1	SMTP	T2	1	Chalk ,talk
	Modeling.		File Transfer Protocol (FTP)	T2	2	Chalk ,talk
	(K2,K3)	5.3.2	WWW, HTTP	12		Chalk
	Davie	ion of A	pplication Layer		1	,talk, ppt
	Kevisi		,	Total		13
			CUMULATIVE PROPOSED		64	
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2	6thE Andrew	dition, ,	McGrawHill 2022 baum ,Computer Networks, 6th E	dition, , Pearson	n New In	ternational
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