Course code		Computer Networks	LTPJC						
XXXX		•	3 0 0 0 3						
Pre-requisite		xxxxxxx		Syllabus version					
				V. XX.XX					
Course Ob									
• Build an understanding of the fundamental concepts of computer networking, protocols,									
architectures, and applications									
• Gain expertise in design, implement and analyze performance perspective of ISO-OSI									
layered Architecture									
• Deal with the major issues of the layers of the model.									
Implement new ideas in Networking through semester long projects.									
Expected Course Outcome:									
After successfully completing the course the student should be able to									
 Describe the layered structure of a typical networked architecture 									
 Identify and analyze the different types of network topologies, switching, error and flow 									
control mechanisms.									
 Design subnetting and enhance the performance of routing mechanisms. 									
1 10001	1511 540.	neums and emance the performance of road	ang meenamen	5.					
Student Le	arning	Outcomes (SLO): 2,5,7							
	ı			SLO:2					
Module:1 PHYSICAL LAYER 6 hours									
		a Communication Networks - Topologies -	Protocols and S	tandards - ISO /					
OSI model -	- Switc	mng.							
Module:2	DAT	A LINK LAYER	9 hours	SLO: 2					
		d correction -CSMA-CSMA/CD-CSMA/C	CA- LAN - Eth						
IEEE 802.4	- IEEE	802.5 - IEEE 802.11 – FDDI.							
M - 1-1-2	NIE	NODIZ I AVED	12 1	CI O. 5					
Module:3		WORK LAYER addressing methods –Internet Protocol (IPv	12 hours	SLO: 5					
Routing – L	_	-	/4,1F vo)- Kouiii	ilg – Distance vector					
Routing L	AIIK Sta	te Routing.							
Module:4	TRA	NSPORT LAYER	9 hours	SLO: 5,7					
Duties of tra	ansport	layer User Datagram Protocol (UDP) – Tra	nsmission Cont						
Congestion Control – Quality of services (QOS).									
Module:5	APPI	ICATION LAYER AND	9 hours	SLO: 2					
Modules		ODUCTION TO WIRELESS	/ Hours	5LO, 2					
		MUNICATION							
DNS -TELNET-Email-SNMP -Cryptography- Fundamentals of wireless communication.									
		Total Lecture hours:	45 hours						

Text Book(s)										
1.	1. Behrouz A Forouzan, Data Communications and Networking, Tata Mc-Grawhill, 2015.									
Reference Books										
1.	J.F.Kurose and K.W.Ross, Computer Networking: A Top-Down Approach Featuring the Internet, Pearson Education, 2014.									
2.	W. Stallings, Data & Computer Communications, Prentice-Hall, 2015.									
3.	Asoke K. Talukder, Roopa R.Yavagal, Mobile Computing-Technology, Applications and Service Creation, Tata McGraw Hill, 2010.									
Mode of Evaluation:										
List	SLO: 1	14,17								
1.	X hours									
2.	2. Experiment title									
3.	Experiment title	X hours								
4.	Experiment title	X hours								
5.	Experiment title	X hours								
	X hours									
Mode of evaluation:										
Recommended by Board of Studies DD-MM-YYYY										
App	proved by Academic Council	No. xx	Date	DD-MM-YY	YY					