

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

(An Institution of National Importance under NITs Act, Established by Govt. of India) मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर JLN Marg, Jaipur-302017 (India)

Code: CST307	Computer Networks	Credit: 03
		L-T-P: (3-0-0)
	Computer Network Architecture, Circuit switching, Packet And Massage Switching, Network Structure. OSI 7-layer architecture.	
Course Content		
	Physical Layer, Data Link Layer, Framing, Error detection.	
	Retransmission algorithms. Queueing models and introduction to	
	Little's theorem, M/M/1 and M/M/m queues. Network of queues.	
	Introduction to M/G/1 queues, reservations and priority. Stability of	
	queueing systems. Multiple access and Aloha. CSMA/CD and	
	Ethernet. High Speed LANs and Token Ring. High speed switch	
	scheduling. Broadcast routing and spanning trees. Shortest path	
	routing. Distributed routing algorithms, optimal routing. Flow control	
	 window/credit schemes, rate control schemes. Transport layer 	
	and TCP/IP. Introduction to ATM networks and Network	
	Management And Interoperability. Performance Issues Of LAN And	
	WAN	
	 Data Networks: Bertsekas and Gallagher, Phi. Computer Networking A top down Approach: J.F.Kurose, Pearson. 	
Important Text		
Books/References	3. Data & Computer Communication : W. Stalling , Phi	
	4. Computer Networks: L. Peterson and Davie, MKP	
	5. Computer Networks and Internet: D.E. Comer, Pearson	