

Module	Topic	No. Of Classes
I	1. Overview of the Internet, Data Communication	1
	2. Network Criteria, Protocol, Layering Scenario	1
	3. TCP/IP Protocol Suite : The OSI Model	2
	4. Internet history standards and administration	1
	5. Comparison of the OSI and TCP/IP reference Model	1
	6. Physical layer : Guided Transmission Media	1
	7. Wireless transmission media : Data link layer	2
	8. Design issues, CRC codes	1
	9. Elementary Data link layer Protocols	1
	10. Sliding Window Protocol	1
	11. Go-Back-N Protocol	1
	12. Selective Repeat Protocol	1
II	1. Multi Access Protocols : ALOHA	1
	2. CSMA, Ethernet-physical layer	1
	3. Ethernet MAC sub layer	2
	4. Switching and use of bridges	1
	5. Learning bridges	1
	6. Spanning tree bridges	1
	7. Repeaters, hubs, bridges	1
	8. Switches, routers and gateways	2
III	1. Network layer : Design issues	1
	2. Store and forward packet switching	1
	3. Connection less and connection oriented protocol	1
	4. Networks-routing algorithms, Optimality principle	1
	5. Shortest path, flooding	1
	6. Distance Vector routing	1
	7. Hierarchical Routing	1
	8. Congestion Control Algorithms	1
	9. Admission Control	1
	10. Internetworking, Tunneling	1
	11. Internetwork Routing	1
	12. Packet fragmentation	1
	13. IPV4, IPV6 Protocol, IP addresses	2
	14. CIDR, ICMP, ARP	1
	15. RARP, DHCP	1
IV	1. The Internet Transport Protocols : UDP	1
	2. TCP, The TCP Service Model	1
	3. The TCP Sliding Window, TCP Congestion Control	1
	4. Application Layer : Introduction	1
	5. Application layer paradigms	1
	6. Client-Server Model, Standard Client-server application	1
	7. HTTP, FTP	1
	8. Electronic Mail, TELNET	1
	9. DNS, SSH	1
	Total Number of Classes	46