CE-CN343	ADVANCE COMPUTER NETWORK	2 Hr/Week	2 Units

Contents of syllabus	Hours
Overview of Computer network fundamentals	**2**
IP addresses IPV6 **ADDRESS MAPPING (Mapping Logical to Physical Address: ARP ,Mapping Physical to Logical Address: RARp, BOOTP, and DHCP)(ICMP)**	**5**
Wired LANs IEEE Protocols **(Ethernet-Token Bus-Token Ring)**	**2**
Random Access Techniques **Pure Aloha** **Slotted Aloha** **CSMA/CD,CSMA/CA**	**3**
LAN **Application and Configurations** **Hardware Connection and Interfacing**	**3**
Connection LANs ,Backbone Networking and Virtual LANs **(Hub – Repeater –Bridge –Gateway),Backbone network, Virtual LANs , Bridge**	**3**
Switching Techniques , Circuit Switching , Message Switching , Packet Switching	**4**
ATM-------(2st_semester)ch19-ATM_Later **Architecture** **ATM LAN , ATM MAN ,ATM WAN**	**4**
High Speed Network **FDDN** **ISDN**	**4**

References:
Textbook:
Computer Networks, a System approach, 4th Edition, by Larry Peterson, MK 2007
TCP/IP Protocol Suite, 4rd edition, by B. A. Forouzan, McGraw Hill 2010
(focus on the internet with nice illustration animations)