

Year & Sem:	Course Code: EC3503	Course Name: Telecommunication Switching and Networks	No. of Credits: 4	L 2	T&PS 2	P 0
Unit-I: Resource sharing and need for switching; Need for networks overview of existing networks; Unit-II: Store and forward switching; Packet switching; Circuit switching; Traffic considerations. Erlang. Unit-III: Types of telephone switching systems; Signalling; Two/four wire transmission; Telephone set; Unit-IV: Telephone network organization; Principles and examples of step by step, cross bar and reed relay systems; Electronic switching and stored program control systems routing algorithms ; Unit-V: Digital switching-time, space and hybrid switches; Examples of digital exchanges. Computer and data networks; ARPANET, ALOHA-link protocols; Unit-VI: Network topology; Multiple access schemes; Layered architectures; Network protocols; Local area networks; Evolution towards ISDN References/Text Books: 1:Thiagarajanviswanathan Manav Bhatnagar ”Telecommunication Systems and Networking”,PHI learning Pvt Ltd.,second edition 2015 Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations. Video Lectures (Web Links): 1. 2. Study Materials (Web Links): 1. 2. Problems & Solutions (Web Links): 1. 2. Assignments (Web Links): 1. 2.						