

# GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY

## LECTURE PLAN

### Sem-8

<b>Paper Code: : ETEC-428</b>		<b>Paper: Next Generation networks</b>
<b>S.NO.</b>	<b>TOPICS</b>	<b>LECTURES</b>
1	Introduction to next generation networks. Communicating in the new Era,	1
2	Networking, New Era of Networking, Technologies influencing change, IP Everywhere, Optical fiber anywhere, wireless access,	2
3	building blocks for NGN, IP Networks, VOIP	2
4.	Multi service Flexible Networks architecture. VPNs, Optical Networks, Wire line & Wireless Networks, NGN Services	4
5.	Network Infrastructure convergence, services convergence from technology push to service pull.	2
6.	IP Networks ,IP past, present and future, IP influence and confluence, IP version 4, I. P. Version 6, IP Network convergence	3
7	LAN Technologies, IP Routing, LAN Switching, WAN's, WAN Technologies and Topologies. Wireless IP LANS	3
8	Mobility Networks, Global IP Networks, Global capacity, Globally Resilient IP, Internet – A Network of Networks. Beyond IP	2
9	Technology Brief – IP Networks, Business Drivers, Success factors, Applications and Service Value.	3
<b>First term Exam</b>		
10	Muti service Networks Origin of multi service ATM, Next Generation Multi service Networks, Next Generation	3
11	Multi service ATM switching, Multi protocol Label switching, Networks, Frame Based MPLS, Cell based	3
12	MPLS, MPLS services and their benefits, multi service provisioning platforms (MSPP) & Multi service switching platform (MSSP).	4

13	NGN Applications Internet connectivity, e-commerce.	3
14	Call center, third party application service provision,	2
15	UMTS, WAP, WiMAX	3
16	Integrated billing, security and directory enabled networks	2