Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
ETL602	Communication Engineering Laboratory III	--	--	2	--	--	1	1
		Examination Scheme						
		ISE			ESE			Total
					Practical		Oral	
		40			10		10	60

Pre-requisite Course Codes	ETC 601: Digital Communication ETC 603: Computer Communication and Networks	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Ability to implement various concepts of networking and digital communication.
	CO2	Ability to design/configure/reconfigure sub blocks and components of networking and digital communication.
	CO3	Ability to write and debug software programs

Exp. No.	Experiment Details	Ref.	Marks
1	Binary Amplitude Shift Keying		5
2	Binary Phase Shift Keying		5
3	Binary Frequency Shift Keying		5
4	Hamming code Encoder		5
5	Syndrome Decoder		5
6	Duo binary Encoder		5
7	QAM PSD and Constellation diagram		5
8	Transmission of Convolutionally coded QPSK signal through AWGN channel		5
9	Signal transmission through Raised cosine filter		5
10	BER analysis of BPSK signal		5
11	Transmission of QAM signal using USRP (Demo)		5
12	Understanding of basic Network utilities on Linux OS: ifconfig, ping, telnet, traceroute, nslookup, netstate, whois, curl.		5
13	Socket Programming using Python, Introduction to Packet Tracer		5
14	Design network topology using Packet tracer and verify the communication among verious entities using suitable network utilities		5
15	Designing network topology using DHCP, DNS and HTTP Servers configuration and their verification		5
16	Subnet Design and Router Configuration, RIPv2 Router Configuration and testing through various learning objectives		5
***Any 08 Experiments to be performed.**		**Total Marks**	**40**

References: As per recommended by faculty.