DEPARTMENT OF ELECTRONICS ENGINEERING (ETRX) Credit Based Grading Scheme(Revised - 2012) - University of Mumbai

CBGS-2012(R)

TCET

TCET/FRM/IP-02/10 Semester Plan (Practical / Tutorials / Assignment) Revision: B

Semester: V

Subject: D. COM

Course: B.E ETRX

Class:T.E. ETRX

Batches: B.E

Batch size: 18 Students

Laboratory faculty in charge: MS . ROOHI MEHTA Lab. Assistant /Attendant: Ms. Sarita Tiwari

Note: Experiment planned as per University Curriculum

BASIC EX	PERIMENTS			
sr. no.	Titles(assignment /tutorial/experiment)	planned date	completio	remarks
	PLANNING WITH THE USE OF TECHNOLOGY			
5	Implementation of Shannon fano code using matlah	E3/E4:16/8/17		
	Implementation of shannon rand code using matlab	E1/E2:24/8/17		
6	To observe and analyse different line codes on	E3/E4:5/8/17		
	data conditioning and reconditioning kit	E1/E2:6/8/17		
1	Introduction to digital communication kits	E3/E4:17/7/17		
		E1/E2:18/7/17		
	Implementation of Huffman coding and average length			
4	calculation using matlab	E3/E4:9/8/17		
		E1/E2:10/8/16		
Design/	Development Experiments:			
3	To Design exponential density and distribution function	E3/E4:2/8/17		
	To besign exponential density and distribution function	E1/E2:3/8/17		
2	To design discrete pdf and cdf using matlab	E3/E4:26/7/17		
2		E1/E2:27/7/17		
7	To perform convolution codes in matlah	E3/E4:6/9/17		
,		E1/E2:7/9/17		
8	Measurement of hit error rate using hinary data	E3/E4:13/9/17		
0	Weasurement of bit error rate using binary data	E1/E2:14/9/17		
Group le	arning activity			
0	To perform ASK modulation /demodulation and plot its			
5	waveform	E3/E4:20/9/17		
10	To perform FSK modulation/demodulation and plot its	E3/E4:3/10/17		
	waveform	E1/E2:4/10/17		
11	To perform PSK modulation/demodulation and plot its	E3/E4:3/10/17		
11	waveform	E1/E2:4/10/17		
12	To perform QPSK modulation/demodulation and plot its	E3/E4:17/10/17		
	waveform	E1/E2:18/10/17		
13	To design DSSS and FHSS using matlab	E3/E4:17/10/17		
		E1/E2:18/10/17		
Bridge co	ourses Objective: Bridging of gaps with respect to prerequis	sites and industry	y skills or to	carryout
research	in that particular field. (30 Hrs / Semester / student)			

			Modes of	nded
SR.NO.	Bridge courses/Technology	Duration (Week	Learning	Sources
1	Prereqiusite course	2 Weeke / 2	Solf	Simon
	Probability and calculus	2 Weeks 7 3 Hrs	learning	haykin, taub
2	Advanced course	8 Weeks (2	Technolo	NPTEL VID
	Principles of communication II	Hrs	gy Based learning	WWW.NPT

1. Mini /Minor Projects Objective: To get hands on experience to execute projects with respect to student choice in the following areas. (30 Hrs / Semester / Student).

(Total 120 Hrs)

The areas are:

1. Research 2. Core 3. Interdisciplinary 4. Application

Major project : As per University Scheme

S.No		Project Title/Group Size			Class
	1	1 Remote controlled turntable			
	2	remote control flying plane			TE
No. of					
Prac					
DOSLNE:					

Group activities are required to be added with the practical related to course to enhance the learning activity of the stude Group activity includes: Group presentation, new experiment design, mini projects etc.

Note:

1. The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.

2. Learning objective and outcome shall be clearly stated with each of experiments/ tutorials/ assignments and are required to be mapped at the end of the semester.

3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

2.

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	Type / Project Hours	Modes of I	Learning	Reference		
	MINOR	CH PAPERS				
	MINOR					
DOSLE (engaged in some other dates):						

ent in the course.