

TCET/FRM/IP-02/10

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



Revision: A

Semester Plan

(Practical / tutorials / Assignment)

Semester: SE ETRX - III Batches: SE ETRX Course: **B.E ETRX**

Subject: ELXL303:Electrical Network and Measurement Laboratory Class: S.E ETRX Batch Size: 20 students

Laboratory faculty In-Charge: Mrs. Archana B./Mrs. Roohi M. /Mr. Sunil K. Lab Assistant / Attendant: Ms. Sarita Tiwari

Note: Experiments are planned as per University Curriculum

Basic Experiments

Sr. No	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date
1	To analyze Lissajous pattern using CRO	E1, E2 : 24/7	
	10 analyze Lissajous pattern using CKO	E3, E4 : 28/7	
2	Tutorial) Study of dependent sources- Voltage controlled voltage source	E1, E2: 31/7	
	and CCCS	E3, E4: 4/8	
3	To measure weight using load cell	E1, E2: 7/8	
		E3, E4: 11/8	
4	Tutorial)Verification of Superposition theorem and Thevenin's theorem in AC	E1, E2: 14/8	
	circuits	E3, E4: 18/8	3

Design / Development Experiments:

	TITLES		Completion Date
Sr. No	Experiments / Tutorials / Assignment	Planned Date	
	(Planning with use of Technology)		
5	To measure strain using strain gauge	E1, E2: 21/8	
		E3, E4: 25/8	
6	(Tutorial) Time response of second order system	E1, E2 : 4/9	
		E3, E4 : 1/9	
7	To measure displacement using LVDT	E1, E2: 11/9	
		E3, E4 : 8/9	
8	(Tutorial) Find open circuit parameters, short circuit parameters of 2 port network	E1, E2: 18/9	
		E3, E4 : 15/9	
9	To measure air pressure using pressure gauge	E1, E2: 25/9	
		E3, E4 : 22/9	
10	(Tutorial) Obtain the frequency response of R-L circuit and obtain the time constant	E1, E2: 9/10	
		E3, E4 : 29/9	
10	To implement filters using R,L and C components.	E1, E2: 16/10	
	To implement their using K,L and C components.	E3, E4 : 6/10	
Group L	earning Activity		
1	Assignment 1:		
	Mod: Principals of measurement	E1 E2 E2 E4	
	Mod: Measurement of R, L and C	E1, E2, E3, E4	
	Mod: Oscilloscopes		

2	Assignment 2: Mod: Analog and Digital Instruments Mod: Transducers for Displacement, Temperature, Pressure, Level and Flow Measurement Oscilloscopes	E1, E2, E3, E4	
3	Assignment 3: Mod: Analysis of DC circuits Mod: Analysis of AC circuits	E1, E2, E3, E4	

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

The areas are:

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

Mini /Minor Projects:

S.No	Project Title		Group Size/ Project Hours	Project Type
1	Design of current controlled current source.	SE	3-4	Mini
2	Mini project based on various transducers.	SE	3-4	Mini

	Planned	Complete d			Complete d	Planned	Completed
No. of Prac	Basic Exp: 04 Design Base Exp: 07 Mini Project: 2 Case study: 2		No. of Assignme nts	3		01(Low Profile Student)	

DOSLNE:	IDOSLE (engaged in some other dates):

Group activities are required to be added with the practical related to course to enhance the learning activity of the student in the course. Group activity incl 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 er semester.
- 3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

Name & Signature of Faculty

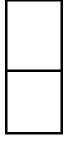
Signature of HOD

Date: 11/01/2017

Signature of Principal / Dean Academic Date:

Date:

Remarks Remarks



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Referenc e

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