

TCET/FRM/IP-02/10

Revision: B

Semester Plan (Practical / Tutorials / Assignment)

 Semester: **V**

 Course: **T.E EXTC-A**

 Batches: **B1/B2/B3/B4**

 Subject: Communication Engineering Lab-II
 (ETL-503)

 Class: **T.E EXTC- B**

Batch size: 20 Students

Laboratory faculty in charge: Mr.Yogesh Kumar

Teaching Assistant : Ms. Asmita Parab

 Note: **Experiment planned as per University Curriculum**

Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Batches	Planned Date	Completion Date	Remarks
1.	To study OP-AMP as an Instrumentation Amplifier	B1-B2	26/7/17		
		B3-B4	24/7/17		
2.	To study and simulate Dipole antenna in NEC-2 Software	B1-B2	2/8/17		
		B3-B4	31/7/17		
3.	To study OP-AMP as Schmitt Trigger	B1-B2	9/8/17		
		B3-B4	7/8/17		
4.	To study and simulate antenna Array in NEC-2 Software	B1-B2	16/9/17		
		B3-B4	14/8/17		
5	To study OP-AMP as Precision Rectifier	B1-B2	30/9/17		
		B3-B4	4/9/17		
6.	To study and simulate Low pass filter in RFSIM-99 Software	B1-B2	6/9/17		
		B3-B4	11/9/17		
7.	To study Asynchronous counter as MOD-2 and MOD-10 Counter	B1-B2	13/9/17		
		B3-B4	18/9/17		

Design/ Development Experiments:

8.	Design and simulate High pass filter in RFSIM-99 Software	B1-B2	20/9/17		
		B3-B4	11/9/17		
9.	Design Astable/ Monostable Multivibrator using IC-555	B1-B2	4/10/17		
		B3-B4	25/9/17		

Group Learning Activity:

10	Case study: 1. Selection of best antenna for VHF TV reception.	B1	12/10/17		
		B3	16/10/17		
	2 .Application of IC 741 and 555	B2	12/10/17		
		B4	16/10/17		

Issued By: MR

Approved By: Principal

- 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**

Mini / Minor project : As per University Scheme

S.No	Project Title/Group Size			Class	Type / Project Hours	Modes of Learning	Reference	
1.	Head-phone amplifier using OP-AMP			T.E EXTC-B	Application	Project Based Learning	http://bestengineerinprojects.com/category/electronics-projects/ic-741-based-projects/	
2	Audio Amplifier using OP-AMP			T.E EXTC-A	Application	Project Based Learning	http://bestengineerinprojects.com/category/electronics-projects/ic-741-based-projects/	
No. of Practical	Planned	Completed	No. of Assignments	Planned	Completed	No. of Tutorial	Planned	Completed
	Basic Exp: 07						00	--
	Design Base Exp: 02			02				
	Group Learning: 2							
	Minor Project: 02							
DOSLNE:				DOSLE (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 includes: Group presentation, new experiment design, mini projects etc.

Note:

- The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.
- 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.
- Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

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(Ms. Shastri Shailendra)

Nikhil Tiwari

Name & Signature of Faculty

(Dr. Vinitkumar Dongre)

Signature of HOD

(Dr. R. R. Sedamkar)

Signature of Principal / Dean Academic

Date: 19 /07/2017

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