

Zagdu Singh Charitable 'Trust's (Regd.)

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai*)
(Accredited Programmes by National Board of Accreditation, New Delhi**)

A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101. Tel.: 6730 8000 / 8106 / 8107

Tel.: 6730 8000 / 8106 / 8107 Fax : 2846 1890 Email : tee'@htakureducation.org Website : www.tcetmumbai.in • www.thakureducation.org



**Permanent Affiliated UG Programmes: *Computer Engineering * Electronics & Telecommunication Engineering * Information Technology (w.e.f.: A.Y.2015-16 onwards)

**Ist time Accredited UG Programmes: *Computer Engineering * Electronics & Telecommunication Engineering * Information Technology

**2nd time Accredited UG Programmes: *Computer Engineering * Electronics & Telecommunication Engineering * Information Technology * Electronics Engineering (3 years w.e.f.: 01-07-2016)

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 Class: T.E EXTC- B Batch size: 20 Students

(ETL-503)

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	Completi on Date	Remarks
1.	To study OP-AMP as an	B1-B2	26/7/17		
1.	Instrumentation Amplifier	B3-B4	24/7/17		
2.	To study and simulate Dipole antenna in	B1-B2	2/8/17		
Z .	NEC-2 Software	B3-B4	31/7/17		
3.	To study OP-AMP as Schmitt Trigger	B1-B2	9/8/17		
J.		B3-B4	7/8/17		
4.	To study and simulate antenna Array in	B1-B2	16/9/17		
4.	NEC-2 Software	B3-B4	14/8/17		
_	To study OP-AMP as Precision	B1-B2	30/9/17		
5	Rectifier	B3-B4	4/9/17		
_	To study and simulate Low pass filter in	B1-B2	6/9/17		
6.	RFSIM-99 Software	B3-B4	11/9/17		
7.	To study Asynchronous counter as	B1-B2	13/9/17		
	MOD-2 and MOD-10 Counter	B3-B4	18/9/17		

Design/ Development Experiments:

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

Group Learning Activity:

10	Case study:	B1	12/10/17	
	1. Selection of best antenna for VHF TV reception.	В3	16/10/17	
	2 .Application of IC 741 and 555	B2	12/10/17	
		B4	16/10/17	

Issued By: MR	Approved By: Principal
---------------	------------------------



Zagdu Singh Charitable 'Trust's (Regd.)

THAKUR COLLEGE OF **ENGINEERING & TECHNOLOGY**

(Approved by AICTE, Goyt, of Maharashtra & Affiliated to University of Mumbai*) (Accredited Programmes by National Board of Accreditation, New Delhi**)

A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101.

Tel.: 6730 8000 / 8106 / 8107 Fax : 2846 1890 Email : teck@thakureducation.org Website : www.tcetmumbai.in • www.thakureducation.org



"Permanent Affiliated UG Programmes: * Computer Engineering * Electronics & Telecommunication Engineering * Information Technology (w.e.f.:A.Y. 2015-16 onwards)
**1st time Accredited UG Programmes: * Computer Engineering * Electronics & Telecommunication Engineering * Information Technology
**2nd time Accredited UG Programmes: * Computer Engineering * Electronics & Telecommunication Engineering * Information Technology * Electronics Engineering (3 years w.e.f.: 01-07-2016)

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:

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://bestengineeringprojects.com/category/electronics-projects/ic-741-based-projects/	
2	Audio Amplifier using OP-AMP			T.E EXTC-A	Application	Project Based Learning	http://bestengineerin gprojects.com/categ ory/electronics- projects/ic-741- based-projects/	
	Planned	Completed		Planned	Completed		Planned	Complete d
No. of Pract ical	Basic Exp: 07 Design Base Exp: 02 Group Learnin g: 2 Minor Project: 02		No. of Assign ments	02		No. of Tutorial	00	-

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:

DOSLE (engaged in some other dates):

- 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.

Sdsdsd-

(Ms. Shastri Shailendra) Nikhil Tiwari

DOSLNE:

(Dr. Vinitkumar Dongre)

(Dr. R. R. Sedamkar)

Signature of HOD Name & Signature of Faculty

Signature of Principal / Dean Academic

Date: 19 /07/2017 Date:19 /07/2017 Date:19 /07/2017

Approved By: Principal Issued By: MR