

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 Fax : 2846 1890 Email : tee'@htakureducation.org Website : www.tcetmumbai.in • www.thakureducation.org



Revision: B

**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)

Semester Plan (Practical)

Course: EXTC Semester: VII Batches: B1-B2

B3-B4

Subject: Advanced Communication Engineering Labl Class: B.E EXTC Batch size: 40

Students

TCET/FRM/IP-02/10

Laboratory faculty in charge: Ms. Aradhana Manekar Lab Assistant: Ms. Kinjal

Note: Experiment planned as per University Curriculum

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Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Batches	Planned Date	Completi on Date	Remarks
		B1	28/07/2017		
4	Satting up for fiber antice analog link	B2	28/07/2017		
1.	Setting up for fiber optioc analog link	В3	25/07/2017		
		B4	25/07/2017		
	Study of klystron oscillator using	B1	04/08/2017		
	Microwave bench . Identify different	B2	04/08/2017		
2.	modes of klystron oscillator	B3	01/08/2017		
	·	B4	01/08/2017		
		B1	11/08/2017		
3.	Study of numerical aperture of optical	B2	11/08/2017		
	fiber	В3	08/08/2017		
		B4	08/08/2017		
4.	M	B1	18/08/2017		
	Measurement of frequency of klystron oscillator using slotted line.	B2	18/08/2017		
	oscillator using stotled line.	B3	05/09/2017		
		B4	05/09/2017		
		B1	01/09/2017		
5.	To measure Bending losses for	B2	01/09/2017		
J.	different wavelengths	B3	12/09/2017		
		B4	12/09/2017		
		B1	08/09/2017		-
	Study of variable attenuator using	B2	08/09/2017		_
6.	Microwave bench.	B3	19/09/2017		-
	•	B4	19/09/2017		

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**Pard time Accredited UG Programmes: "Computer Engineering Electronics & Telectronics Melacommunication Engineering" Information Technology (we.f.:A.Y.2015-16 onwards)

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

			B1	15/09/2017			
7.	Study of OPTSIM Software w	B2	15/09/2017				
	design example		B3	26/09/2017			
			B4	26/09/2017			
Desig	n/ Development Experiments:						
	D :	1	B1	22/09/2017			
•	Design a matched circuit to mat		B2	22/09/2017			
8.	load with source using lumped		В3	03/10/2017			
	components		B4	03/10/2017			
	Design a fiber optic link using I	Diode	B1	06/10/2017			
•	and PIN diode and vary the Fibe		B2	06/10/2017			
9.	length and do performance evalu		В3	03/10/2017			
			B4	03/10/2017			
	Mini Project :Design a matched circuit to match a load with source		B1 B2	13/10/2017 13/10/2017			
10.		B2					
	using stub. Used different dielectionstant 1) 2.2 2) 4.4 3) 10.2	B3	17/10/2017				
	Constant 1) 2.2 2) 4.4 3) 10.2		B4	17/10/2017			
	Case study on On Long Hual Op	B1	13/10/2017				
	Fiber Transmission Network	B2	13/10/2017				
	Tibel Transmission (vetwork	B3	17/10/2017				
			B4	17/10/2017			
 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 Core Interdisciplinary Application Mini/ Major project: As per University Scheme 							
S.No	Project Title/Group Size	Class	Type / Project Hours	Modes of Learning	Reference		
	Comparative analysis of	B.E	Possarch	Project	http://ieeex	xplore.iee	

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Research

Based

Learning

EXTC-

Α

Comparative analysis of defected ground structure



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2.	A Fiber-	Optic Memor	y Store	B.E EX	E TC-	Research Application	Project Based Learning	tech- online.co project-ba	w.electro- m/threads/ ased-on- per.95766/
	Planned	Completed		Pla d	nne	Completed		Planned	Completed
No. of Prac	Basic Exp: 07 Design Base Exp: 02 Group Learnin g: 2 Bridge Course: 01 Major Project: 02		No. of Assign ments	02			No. of Tutorial	00	
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:

- 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.

SD	SD	SD
(Ms.Aradhana Manekar)	(Dr. Vinitkumar Dongre)	(Dr. R. R. Sedamkar)
Name & Signature of Faculty	Signature of HOD	Signature of Principal / Dean Academic

Date:20/07/2017 Date: 20/07/2017 Date: /07/2017

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