Lagdu 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 : tcet@thakureducation.org
Website : www.tcetmumbai.in • www.thakureducation.org

ISO 9001 : 2008 Certified

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)

TCET/FRM/IP-02/10	Revision: B

**Semester Plan
(Practical / Tutorials / Assignment)**

Semester: **III**   Course: **S.E EXTC-A**   Batches: **A1-A2, A3-A4**

Subject: OOP using JAVA laboratory
 (**ECL303**)

Class: S.**E EXTC- A**
 Batch size: 20 Students

Laboratory faculty in charge: Ms. Rupali Mane (118)   Lab Assistant: Mr. Dinesh Kanswal

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

Basic Experiments: Pre Requisite Course: SPA

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Batches	Planned Date	Completion Date	Remarks
1.	Write a program using command line argument in java.	A1-A2	27/7/17		
		A3-A4	25/7/17		
2.	WAP in Java to find a square, square root and cube of a given number using abstraction.	A1-A2	3/8/17		
		A3-A4	1/8/17		
3.	WAP to print truth table for java logical operators	A1-A2	10/8/17		
		A3-A4	8/8/17		
4.	Write a program for various ways of accepting data through keyboard & display its content.	A1-A2	24/8/17		
		A3-A4	5/9/17		
5.	Write a program for addition, subtraction and multiplication of two matrices.	A1-A2	3/8/17		
		A3-A4	12/9/17		
6.	Write a program initialize all data types.	A1-A2	7/9/17		
		A3-A4	19/9/17		
Design/ Development Experiments:					
7.	Write a program to implement an Interface.	A1-A2	14/9/17		
		A3-A4	19/9/17		
8.	WAP to draw all geometric shapes and fill them with different colors.	A1-A2	21/9/17		
		A3-A4	26/9/17		
Group Learning Activity:					
9.	Develop Editor (Example: Notepad)	A1-A2	5/10/17		
		A3-A4	17/10/17		
10.	Inventory Control System	A1-A2	12/10/17		
		A3-A4	3/10/17		

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**

Issued By: MR	Approved By: Principal

Mini/ Major project : As per University Scheme

S. No	Project Title/Group Size	Class	Type / Project Hours	Modes of Learning	Reference
1.	Power Shoe using Piezoelectric technique (A mobile charging technique)	BE B	Research	Project Based Learning	1. https://www.youtube.com/watch?v=FGQ_7fMXBf8 2. http://ieeexplore.ieee.org/document/7343993/?reload=true
2.	Braille Glove	BE B	Application	Project Based Learning	1. https://www.youtube.com/watch?v=ONnZ_HP-dzM 2. http://content.time.com/time/specials/packages/article/0,28804,1934259_1934277,00.html
3	Hand Assistive System for Deaf, Dumb and blind	BE B	Application	Project Based Learning	1. https://www.youtube.com/watch?v=xQaRHk9H0 2. https://www.google.com/patents/US5047952
4	Border Safety Robot	BE A	Application	Project Based Learning	1. https://www.youtube.com/watch?v=patTN3Dh6ZY 2. http://ieeexplore.ieee.org/document/5234120/
5	Smart Attendance System	BE A	Application	Project Based Learning	1. https://www.youtube.com/watch?v=0OKaoih3J44 2. http://www.smartattendancesystem.com/
6	Automatic Bus Ticketing	BE A	Application	Project Based Learning	1. https://www.youtube.com/watch?v=OHSD4NbuBlw 2. http://iopscience.iop.org/article/10.1088/1757-899X/114/1/012146/meta

No. of Prac	Planned	Completed	No. of Assignments	Planned	Completed	No. of Tutorial	Planned	Completed
	Basic Exp: 06 **Design Base Exp**: 02 **Group Learning:** 2 **Bridge Course:** 01 **Major Project:** 06			NIL			NIL	NIL

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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. Rutvi Thakar)   **(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: 20/07/2017

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