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

Estd. 2001

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

Semester Plan
(Practical / tutorials / Assignment)

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

Subject: **ELXL304:Object Oriented Programming Methodology Laboratory**   Class: **S.E ETRX**   Batch Size: 20 **students**

Laboratory faculty In-Charge: **Mr. Sunil K./ Mr. Sumit K.**   Lab Assistant / Attendant: **Mr. Brijkishore Dubey**

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	Remarks
1	a) WAP to swap given two strings. b) WAP to calculate area & circumference of circle.	**E3, E4 : 24/7** **E1, E2 : 28/7**		
2	a) WAP to print truth table for java logical operators. b) WAP to read the number & shift left & right by 3 bits.	**E3, E4 : 31/7** **E1, E2 : 4/8**		
3	a) WAP to calculate sum & reverse of digits of number using do-while. b) WAP to print the given patterns.	**E3, E4 : 7/8** **E1, E2 : 11/8**		
4	Program on Arrays in Java.	**E3, E4 : 14/8** **E1, E2 : 18/8**		

Design / Development Experiments:

Sr. No	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
5	Program on Objects and Classes	**E3, E4 : 21/8** **E1, E2 : 25/8**		
6	WAP to implement the concept of Inheritance.	**E3, E4 : 4/9** **E1, E2 : 1/9**		
7	WAP to implement concept of interface.	**E3, E4 : 11/9** **E1, E2 : 8/9**		
8	WAP to demonstrate exception handling in java.	**E3, E4 : 18/9** **E1, E2 : 15/9**		
9	WAP to demonstrate Multithreading in java	**E3, E4 : 25/9** **E1, E2 : 22/9**		
10	WAP to demonstrate Applet programming.	**E3, E4 : 9/10** **E1, E2 : 29/9**		

Group Learning Activity

1	**Assignment 1:** Mod: Introduction to Object Oriented Programming Mod: Classes, Object and Packages.	**E3, E4, E3, E4**		
2	**Assignment 2:** Mod: Array, String and Vector Mod: Inheritance and Interface	**E3, E4, E3, E4**		

| 3 | **Assignment 3:**
Mod: Exception Handling and Multithreading:-
Mod: GUI programming in JAVA | **E3, E4, E3, E4** | | |

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**).

The areas are :
1. Research   2. Core   3. Interdisciplinary   4. Application

Mini /Minor Projects :

S.No	Project Title	Class	Group Size/ Project Hours	Project Type	Reference
1	Implement sequential search algorithm	SE	3-4	Mini	**Technology Based Learning**
2	Demonstrate method overloading for calculating area of circle,rectangle and triangle.	SE	3-4	Mini	

No. of Prac	Planned	Completed	No. of Assignments	Planned	Completed	No. of Tutorial	Planned	Completed	
	Basic Exp: 04 Design Base Exp: 06 Mini Project: 2 Case study: 1			**3**			01(Low Profile Student)		

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.

Name & Signature of Faculty   Signature of HOD   Signature of Principal / Dean Academic
Date: 11/01/2017   Date: Date: