

### DEPARTMENT OF INFORMATION TECHNOLOGY (IT)





TCET/FRM/IP-02/10

Revision: B

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

Semester: III Course: SE IT Batches: A1, A3

Subject: Data Structures & Analysis Class: SE-A Batch size: 20

Laboratory faculty in charge: Bhushan Nemade Lab. Assistant /Attendant:

Note: Experiment planned as per University Curriculum Mr.. Ram Phausdar

#### **Basic Experiments:**

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
1.	Implementations of stack using menu driven program.	A1:19/7/17		
	unven program.	A3: 17/7/17	17/07/2017	
2.	Implementations of Infix to Postfix Transformation.	A1:25/7/17		
		A3: 26/7/17		
3.	Implementations of circular queue and Priority Queue	A1:01/08/17		
		A3:02/08/17		
4	Implementation of Singly Linear Linked List. (Menu driven program)	A1: 08/08/17		
		A3: 09/08/17		
Design	n/ Development Experiments:			
5	Develop code in C language for Singly Circularly linked doubly linked list. (Menu	A1:05/09/17		
	driven program)	A3: 16/08/17		
6	Develop code in C language for Binary Search Tree (Menu driven program) with insertion and Traversal operation	A1:12/09/17		
		A3: 30/08/17		
7	Develop code in C language for Selection and insertion sort.	A1:19/09/17		
		A3: 06/09/17		
8	Develop code in C language for Quick Sort	A1:26/09/17		
	and Merge sort	A3: 13/9/17		

Issued By: MR Approved By: Principal



## DEPARTMENT OF INFORMATION TECHNOLOGY (IT) Credit Based Grading Scheme[Revised - 2012] - University of Mumbei



CRGS-2012(B)

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9	Develop code in C language for B	inary A1:26/09/17			
	Search technique	·	A3: 20/09/17	-	
10	Develop code in C language for Graph traversal techniques DFS & BFS		A1:3/10/17		
10			A3: 4/10/17		
Group	Learning Activity:				
11	Mini Project: Develop the code of syntax analyser for C programming language using stack based operation		A1:03/10/17		
12	Mini Project: Develop the code for job schedulin Queue based operation	A3: 03/10/17			
13	Case study: NP, NP-Complete and NP-Hard	A1 and A3 11/10/2017			
studen <b>The a</b> r 1.	Minor Projects Objective: To get hand It choice in the following areas. (30 Hrs reas are: Research 2. Core 3. Interdis Minor Projects: Project Title		er / Student). (	Total 120 H	
1	Mock Tests and Examination Management	TE	3	Minor	-
2	Employee Training Scheduling and Materials	SE	3	Mini	-
3	Careers and Employment Management System	SE	3	Mini	-
4	Absence Request and Vacation Schedule Management	TE	3	Minor	-
5	Development of a user friendly ,feature-rich, practical Appraisal Tracker (PRDP)	TE	3	Minor	-
	Development of a feature-rich				

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Basic Exp:



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CBGS-2012(R)

	Т	-	r	T.						
Design Base Exp: 06 Bridge Course: 01 Mini Project: 2 Case study:			al	Student)						
DOSLNE:	DOS	SLE (engaged	in some oth	er 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: 11/07/2017	Date:	Date:								
Issued By: MR		Approved By	r: Principal							