

TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT) Credit Based Grading Scheme[Revised - 2012] - University of Mumbai CBGS-2012(R)



| TCET | /FRM/IP-02/10 | | | | Revision: B | |
|---|--|--|---------------------|------------------------|--------------------|--|
| | (Pra | Semester Pla ctical / Tutorials / A | an Assignment |) | | |
| Seme | ster: III | Course: SE IT | | Batches: B1, B4 | | |
| Subject: Data Structures & Analysis Class: SE-B | | | Batch size: | | | |
| Labora | atory faculty in charge: Sudhir [| Dhekane | | Lab. Ass | istant /Attendant: | |
| Note: | Experiment planned as per U | niversity Curriculu | ım | | | |
| | | | | | | |
| Basic | Experiments: | | | | | |
| Sr. No. | TITLES Experiments / Tutorials (Planning with use of | Planne d Date | Completi on Date | Remarks | | |
| 1. | Implementations of stack usi | ng menu driven | B1:27/7 | | | |
| | program. | | B4: 26/7 | | | |
| 2. | Implementations of Infix to I | Postfix | B1:3/8 | | | |
| | Transformation. | B4: 2/8 | | | | |
| 3. | Implementations of circular of Oueue | ueue and Priority | B1:10/8 | | | |
| | Queue | | B4:9/8 | | | |
| 4 | Implementation of Singly Lin (Menu driven program) | near Linked List. | B1:24/9 | | | |
| Desia | n/ Development Experiments | : | B4:16/9 | | | |
| 5 | Davalon and a in Clanguage for Singly | | | | | |
| 5 | Circularly linked doubly link | d list. (Menu | B1:31/9 | | | |
| | driven program) | | B4: 30/9 | | | |
| 6 | Develop codein C language f | for Binary Search | B1:7/9 | | | |
| | Tree (Menu driven program) Traversal operation | with insertion and | B4: 6/9 | | | |
| 7 | Develop code in C language | for Selection and | B1:14/9 | | | |
| | insertion sort. | | B4: 13/9 | | | |
| 8 | Develop code in C language | for Quick Sort and | B1:21/9 | | | |
| | Merge sort | | В4: 20/9 | | | |
| 9 | Develop code in C language technique | for Binary Search | B1:5/10 B4: 4/10 | | | |
| 10 | Develop code in C language | for Graph FS | B1:5/10 | | | |
| | traversal techniques DFS & I | | B4: 12/10 | | | |
| Group | Learning Activity | | | | | |
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| 11 | Mini Project: Develop the code of syntax analyser for C programming language using stack based operation | B1 | 17/10 | |
|----|---|--------------|-------|--|
| 12 | Mini Project: Develop the code for job scheduling using Queue based operation | B4 | 18/10 | |
| 13 | Case study: NP, NP-Complete and NP-Hard | B1 and B4 | 21/10 | |

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)



| S.No | Project Title | | | Class | Group Size/ Project Hours | Project Type | | Reference | |
|-------------------|---|---------------|--------------------------------------|---------|------------------------------------|------------------------------------|------|------------------|-----------|
| 1 | Mock Tests and Examination Management | | | SE | 3-4 | Mini | | TBL | |
| 2 | Employee Training Scheduling and Materials | | | TE | 3-4 | Minor | | TBL | |
| 3 | Careers and Employment Management System | | | BE | 3-4 | Major | | TBL | |
| No. of Prac | Planned | Compl eted | No. of Assignme nts | Planned | Complet ed | | Plan | ned | Completed |
| | Basic Exp: 04 Design Base Exp: 06 Bridge Course: 01 Mini Project: 2 Case study: 1 | | | 03 | | No. of Tutori Pro al Stud | | ow le ent) | |
| 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.

(Sudhir Dhekane) Name & Signature of Faculty

Signature of HOD

Signature of Principal / Dean Academic

Date: 13/07/2017

Date:

Issued By: MR

Date: