THAKUR TRUSTS ®

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 : 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)
• Electronics Engineering (w.e.f.:A.Y.2017-18 onwards)
**1st time Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (3 years w.e.f.: 16-09-2011)
**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: **VI**          Course: **T.E IT**          Batches: **T.E**

Subject: **Operating System**          Class: T.**E IT- B**          Batch size: **20** Students

Laboratory faculty in charge: Mrs. Sangeeta Vhatkar          Lab. Assistant /Attendant: **Ms. Radhika Kotecha**

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

**Basic Experiments:**

| Sr. No. | TITLES Experiments / Tutorials / Assignment (Planning with use of Technology) | Planned Date (B3,B4) | Completion Date | Remarks |
|---|---|---|---|---|
| 1 | To Study different operating system & their Architecture. | 11/07 | | |
| 2 | To Study & Implement FCFS Scheduling Algorithm | 21/7 | | |
| 3 | To Study and Implementation of FIFO & LRU Page Replacement Algorithm. | 27/7 | | |

**Design/ Development Experiments:**

| Sr. No. | TITLES | Planned Date | Completion Date | Remarks |
|---|---|---|---|---|
| 4 | Implement SJF Scheduling Algorithm | 03/8 | | |
| 5 | Implement RR Scheduling Algorithm | 10/8 | | |
| 6 | W.A.P to Study Status of file and Provide security to file | 24/08 | | |
| 7 | To Study and Implementation of Deadlock Avoidance Algorithm | 31/8 | | |
| 8 | To Study and Implementation of Peterson's Algorithm | 7/09 | | |

| Issued By: MR | Approved By: Principal |
|---|---|

THAKUR TRUSTS ®

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

tcet

ISO 9001 : 2008 Certified

*Permanent Affiliated UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (w.e.f.: A.Y. 2015-16 onwards)
• Electronics Engineering (w.e.f.:A.Y.2017-18 onwards)
**1st time Accredited UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (3 years w.e.f.: 16-09-2011)
**2nd time Accredited UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology • Electronics Engineering (3 years w.e.f.: 01-07-2016)

| | | | | |
|---|---|---|---|---|
| | | | | |
| **9** | Case study on dining philosophers problem and its solution | 14/09 | | |
| **Group Learning Activity:** | | | | |
| **10** | Case Study on NOS & DOS | 21/09 | | |
| **11** | Min Project: Design & Development of Android App. | 05/10 | | |
| **12** | Group Activity Study: Monolithic Kernel VS Micro kernel By Benjamin Roch & TU Wien Or Case study on Producer Consumer Problem | 12/10 | | |

**Bridge courses Objective:** Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field**. ( 24 Hrs / Semester / student)**

| Sr.No | Bridge courses/Technology | Duration (Week/hrs) | Modes of Learning | Recommended Sources |
|---|---|---|---|---|
| **1.** | **Prerequisite course:** Programming using Unix or Java | 2 Weeks / 3 Hrs | Self Learning / Revision | 1. http://www.tutswing.com/cplusplus-home |
| **2** | **Advanced course:** Android Programming | 12 Weeks / 2 Hrs | Self-Learning / Revision | NPTEL |

| Issued By: MR | Approved By: Principal |
|---|---|

|  |  |  |
|---|---|---|
| **THAKUR**<br>®<br>**TRUSTS** | *Zagdu Singh Charitable Trust's (Regd.)*<br>**THAKUR COLLEGE OF**<br>**ENGINEERING & TECHNOLOGY**<br>(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai*)<br>(Accredited Programmes by National Board of Accreditation, New Delhi**) | A - Block, Thakur Educational Campus,<br>Shyamnarayan Thakur Marg, Thakur Village,<br>Kandivali (East), Mumbai - 400 101.<br>Tel.: 6730 8000 / 8106 / 8107<br>Fax : 2846 1890<br>Email : tcet@thakureducation.org<br>Website : www.tcetmumbai.in • www.thakureducation.org |

*Permanent Affiliated UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (w.e.f.: A.Y. 2015-16 onwards)
• Electronics Engineering (w.e.f.:A.Y.2017-18 onwards)
**1st time Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (3 years w.e.f.: 16-09-2011)
**2nd time Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology • Electronics Engineering (3 years w.e.f.: 01-07-2016)

ISO 9001 : 2008 Certified

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. Multidisciplinary      4. Application

**Major project :** As per University Scheme

| S.No | Project Title/Group Size | Class | Type / Project Hours | Modes of Learning | Reference |
|---|---|---|---|---|---|
| **1.** | **Study Design & Development Protocol (literature survey)** | SE | 3-4 | Mini | IEEE Papers |
| **2.** | **Study & Watching videos on Android App (literature survey)** | SE | 3-4 | Mini | **Link** https://www.youtube.com/watch?v=yrRmLOcB9fg |
| **3.** | Develop the code for job scheduling using Queue based operation | SE | 3-4 | Mini | |
| **4.** | **Attendance** Management using Android App | TE | 3-4 | Major | |
| **5.** | Infrastructure Management using Android App | TE | 3-4 | Major | |
| **6.** | Design & Development of WSN protocol | TE | 3-4 | Major | |

| No. of Prac | Planned | Completed | No. of Assignments | Planned | Completed | No. of Tutorial | Planned | Completed |
|---|---|---|---|---|---|---|---|---|
| | **Basic Exp:** 03 **Design Base Exp:** 06 **Group Learning:** 02 **Bridge Course:** | | | 03 | | | 01 (Low Profile Student) | |

| | |
|---|---|
| Issued By: MR | Approved By: Principal |

| 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.


 **(Mrs. Sangeeta Vhatkar)**

Name & Signature of Faculty          Signature of HOD          Signature of Principal / Dean Academic

Date: 18/7/17                                   Date:                      Date: