MINIPROJECT LOGBOOK

**(CSM501: Mini Project 2 A)**

GROUP MEMBERS

## 

## 48- GUPTA DIVYA NANDU

54- JUNGHARE RUCHA SUNIL

59-KAMBLE MANSI GANESH

74- MAGDUM SWAPNALI NANASO

Name of the Guide

RAJASHREE SONAWALE



**Department of Computer Engineering**

# MGM’s College of Engineering and Technology, Kamothe, Navi Mumbai- 410209

**University of Mumbai (AY 2021-22)**

# INSTITUTE VISION & MISSION

### VISION:

To become one of the outstanding Engineering Institute in India by providing a conductive and vibrant environment to achieve excellence in the field of Technology

### MISSION:

To empower the aspiring professional students to be prudent enough to explore the world of technology and mould them to be proficient to reach the pinnacle of success in the competitive global economy.

### VISION:

**COMPUTER ENGINEERING DEPARTMENT**

* To motivate and empower the students of computer engineering to become globally competent citizens with ethics to serve and lead the society
* To provide a stimulating educational environment for computer engineering graduates to face tomorrow’s challenges and to inculcate social responsibility in them.

### MISSION:

* To provide excellent academic environment by adopting an innovative teaching techniques through well-developed curriculum
* To foster a self-learning atmosphere for students to provide ethical solutions for societal Challenges
* To establish Center of Excellence in various domains of Computer Engineering and promote active research and development.
* To enhance the competency of the faculty in the latest technology through continuous development programs.
* To foster networking with alumni and industries.

# PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

|  |  |
| --- | --- |
| PEO 1 | To prepare the Learner with a sound foundation in the mathematical, scientific and engineering fundamentals. |
| PEO 2 | To motivate the Learner in the art of self-learning and to use modern tools for solving real life problems. |
| PEO 3 | To equip the Learner with broad education necessary to understand the impact of Computer Science and Engineering in a global and social context. |
| PEO 4 | To encourage, motivate and prepare the Learner’s for Lifelong learning. |
| PEO 5 | To inculcate professional and ethical attitude, good leadership qualities and commitment to  social responsibilities in the Learner’s thought process. |

**PROGRAM OUTCOMES (POs)**

|  |  |
| --- | --- |
| **Program Outcome**  **Code** | **Program Outcome Description** |
| PO1 | **Basic Engineering knowledge:** An ability to apply the fundamental knowledge in mathematics, science and engineering to solve problems in Computer engineering. |
| PO2 | **Problem Analysis:** Identify, formulate, research literature and analyze computer  engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and computer engineering and sciences |
| PO3 | **Design/ Development of Solutions:** Design solutions for complex computer engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and  environmental considerations. |
| PO4 | **Conduct Investigations of Complex Engineering Problems**:- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions. |

|  |  |
| --- | --- |
| PO5 | **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and  modern computer engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO6 | **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities  relevant to computer engineering practice. |
| PO7 | **Environment and Sustainability**: Understand the impact of professional computer  engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development. |
| PO8 | **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of computer engineering practice. |
| PO9 | **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings. |
| PO10 | **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give  and receive clear instructions. |
| PO11 | **Project Management and Finance:** Demonstrate knowledge and understanding of computer engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary  environments. |
| PO12 | **Life-long Learning:** Recognize the need for and have the preparation and ability to  engage in independent and lifelong learning in the broadest context of technological change. |

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

|  |  |
| --- | --- |
| PSO1 | Acquire skills to design, analyze and develop algorithms and implement them using high-  level programming languages |
| PSO2 | Contribute their engineering skills in computing and information engineering domains like network design and administration, database design and knowledge engineering. |
| PSO3 | Develop strong skills in systematic planning, developing, testing implementing and providing IT solutions for different domains which helps in the betterment of life. |

**STUDENT INFORMATION**

**Project Title:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Student 1** | **Student 2** | **Student 3** | **Student 4** |
| **UID/ROLL NO** | 48 | 54 | 59 | 74 |
| **Name** | GUPTA DIVYA NANDU | JUNGHARE RUCHA SUNIL | KAMBLE MANSI GANESH | MAGDUM SWAPNALI NANASO |
| **Class with**  **Division** | TE A | TE A | TE A | TE A |
| **Contact No.** | 7276417310 | 8433584574 | 9967793590 | 8108359424 |
| **E-mail** | divyagupta21092000@gmail.com | ruchajunghare@gmail.com | mansi200801@gmail.com | swapnalimagdum2019@gmail.com |
| **Address** |  |  |  |  |
| Century Rayon | A-132,Room No. 03 | 403/404, Savitri Prasad Apartments, Section R-3 | Room no-401,sec-35 |
| Colony C-Block 78 | Sector 21,Turbhe | Kolhi Collony, | Riddi Apt, Kamothe |
| UNR | Navi Mumbai | Panvel | Navi Mumbai |

**INSTRUCTIONS TO STUDENTS:**

1. The logbook must be submitted to the Guide or Co-Guide for verification and evaluation of project activities at least once in a week.
2. Logbook duly signed by the guide must be submitted with a project report for evaluation at the end of semester to the department.

# DECLARATION

We declare that this project represents my ideas in my own words and wherever others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my project work. We promise to maintain minimum 75% attendance, as per the University of Mumbai norms. We understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

* 1. GUPTA DIVYA NANDU
  2. JUNGHARE RUCHA SUNIL

3. KAMBLE MANSI GANESH

4. MAGDUM SWAPNALI NANASO

(Signature of Students)

# Letter of Acceptance

## I undersigned, **Prof. *–RAJASHREE SONAWALE------------*** working in the Computer Engineering department, willing to guide the project titled MULTI -MODAL TRANSPORTATION OPTIMIZATION

for the Mini Project 2 A Semester V respectively for the ***Academic Year 2021-22.*** The names of the students are:

**1. GUPTA DIVYA NANDU**

**2. JUNGHARE RUCHA SUNIL**

**3. KAMBLE MANSI SUNIL**

**4. MAGDUM SWAPNALI NANASO**

(Project Guide) (Mini Project Coordinator) (HOD Computer)

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# COURSE OUTCOMES

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| --- | --- | --- | --- |
| **CO**  **No.** | **COURSE OUTCOME** | **POs covered** | **PSOs**  **covered** |
| CO1 | Identify problems based on societal /research needs. | PO1, PO2,PO4 | PSO1,PSO2 |
| CO2 | Apply Knowledge and skill to solve societal problems in a group. | PO1,PO2,PO4,  PO5,PO6,PO8 | PSO1,PSO2 |
| CO3 | Develop interpersonal skills to work as a member of a group or  leader. | PO1,PO2,PO4, PO9,PO11 | PSO1,POS2 |
| CO4 | Draw the proper inferences from available results through  theoretical/ experimental/simulations. | PO1,PO2,PO4, PO5,PO6,PO12 | PSO1,POS2 |
| CO5 | Analyze the impact of solutions in societal and  environmental context for sustainable development. | PO2,PO3,PO4, PO7,PO12 | PSO1,POS2 |
| CO6 | Use standard norms of engineering practices | PO1,PO2,PO4,  PO12 | PSO1 |
| CO7 | Excel in written and oral communication. | PO1,PO4,PO8,  PO9,PO10,PO12 | PSO1 |
| CO8 | Demonstrate capabilities of self-learning in a group, which  leads to lifelong learning. | PO1,PO2,PO4, PO12 | PSO1,PSO3 |
| CO9 | Demonstrate project management principles during project  work. | PO1,PO2,PO4, PO11,PO12 | PSO1,POS3 |

**CO-PO-PSO MAPPING**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| CO1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**SCHEDULE FOR MINI PROJECT**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **Contents** | **Remark** | **Guide Sign** |
| 1 | INTRODUCTION |  |  |
| 2 | OVERVIEW |  |  |
| 3 | PROBLEM STATEMENT |  |  |
| 4 | ASSUMPTION |  |  |
| 5 | OBJECTIVE |  |  |
| 6 | DIMENSION AND MATRIXING |  |  |
| 7 | DECISION VARIABLE |  |  |
| 8 | PARAMETERS |  |  |
| 9 | ADVANTAGES |  |  |
| 10 | CONCLUSION |  |  |

**PROGRESS/ATTENDANCE REPORT**

|  |  |
| --- | --- |
| Title of the Project: MULTI -MODAL TRANSPORTATION OPTIMIZATION | |
| Group No. 36 | **1. GUPTA DIVYA NANDU**  **2. JUNGHARE RUCHA SUNIL**  **3. KAMBLE MANSI SUNIL**  **4. MAGDUM SWAPNALI NANASO** |
| Name of the Supervisor: RAJASHREE SONAWALE MAM | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No** | **Date** | **Attendance** | | | | **Progress/Suggestion** | **Mapping** | | |
| **1** | **2** | **3** | **4** | **CO** | **PO** | **PSO** |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |

## Sign of the Supervisor

**EXAMINER'S FEEDBACK FORM**

Name of External examiner: College of External examiner: Name of Internal examiner: Date of Examination: / /

No. of students in project team:

Availability of separate lab for the project: Yes / No

**Student Performance Analysis** (Put Tick as per your Observation)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Excellent (3) Very Good (2) Good (1) | | | | |
| **Sr. No.** | **Observation** | **(3)** | **(2)** | **(1)** |
| 1 | Quality of problem and Clarity |  |  |  |
| 2 | Innovativeness in solutions |  |  |  |
| 3 | Cost effectiveness and Societal impact |  |  |  |
| 4 | Full functioning of working model as per stated requirements |  |  |  |
| 5 | Effective use of skill sets |  |  |  |
| 6 | Effective use of standard engineering norms |  |  |  |
| 7 | Contribution of an individual’s as member or leader |  |  |  |
| 8 | Clarity in written and oral communication |  |  |  |
| 9 | Overall performance |  |  |  |

o Can the same mini project extend to next semester by adding new objectives/ideas? ( Yes/ No)

o If yes, suggest new Innovative Technique/Idea/ objectives related to this project.

### Signature of External Examiner Signature of Internal Examiner