**LOGBOOK FOR MINI PROJECT -2**

PROJECT GROUP NO: 01

GROUP MEMBERS

1. Ganesh Pawar DSC 137
2. Mayank Tiwari DSC 157
3. Neha Prajapati DSC 140
4. Rahul Kushwaha DSC 129

Name of the Guide: **Dr. Nandini Chandra Nag**



**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (DATA SCIENCE) LOKMANYA TILAK COLLEGE OF ENGINEERING KOPARKHAIRANE, NAVI MUMBAI**

**UNIVERSITY OF MUMBAI**

Academic Year

##### 2023-24

**VISION:**

##### INSTITUTE VISION & MISSION

To create technically competent and ethically responsible professionals capable of providing efficient solutions to the contemporary world.

**MISSION:**

We aim to excel in our continual efforts, towards being one of the most recognized institutions by:

1. Providing a conducive environment comprising high end infrastructure and state-of-the-art laboratory facilities wherein the students, faculty and staff can collectively enhance their technical potential.
2. Encouraging innovation through research activities for the benefits of society.
3. Developing competent professionals responsive to changing technology.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)**

**VISION:**

To prepare the students to become data analytic experts enabling them to explore and contribute to the field of data science.

**MISSION**

* 1. To develop industry conducive environment by providing state-of-the-art facility to compete in the data-driven world.
  2. To empower students to provide innovative and cognitive solutions with the help of data analytical skill-set.
  3. To inculcate leadership qualities and entrepreneur skills with social and ethical values leading to scientific and industrial development of the nation.

**PROGRAM EDUCATIONAL OBJECTIVES (PEO's)**

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| --- | --- |
| PEO1 | Aspire a successful career in the field of Computer Engineering utilizing technical and professional skills while complying with ethical standards |
| PEO2 | Provide techno-social solutions through communication, entrepreneurial, collaborative, and engineering skill |
| PEO3 | Indulge in life-long learning through higher studies, Research, and continuing education. |

##### PROGRAM OUTCOMES (POs)

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| --- | --- |
| PO1 | An ability to apply the knowledge of mathematics, science, engineering fundamentals, and Computer Science & Engineering specialization to the solution of complex Engineering problems. |
| PO2 | An ability to identify, formulate, review research literature, and analyse complex Computer Science & Engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, and Engineering Sciences. |
| PO3 | An ability to design solutions for complex Computer Science & Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| PO4 | An ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions. |
| PO5 | An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex Computer Science & Engineering activities with an understanding of the limitations. |
| PO6 | An ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice. |
| PO7 | An ability to understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development. |
| PO8 | An ability to apply ethical principles and commit to professional ethics and |

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|  | responsibilities and norms of the engineering practice. |
| PO9 | An ability to function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings. |
| PO10 | An ability to 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 | An ability to demonstrate knowledge and understanding of the 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 | An ability to recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

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| --- | --- |
| PSO1 | In still the principles of data management, data visualization and data security for building intelligent systems. |
| PSO2 | Applying the knowledge of statistics, analytics, machine learning and deep learning concepts and tools to solve real world business problems. |
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STUDENT INFORMATION

**Project Title:** Online Voting System

**Name of the Guide:** Dr. Nandini Chandra Nag

**Academic Year:** 2023-24

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Student 1** | **Student 2** | **Student 3** | **Student 4** |
| **Name** | Ganesh Manoj Pawar | Mayank Raghvendra Tiwari | Neha Rajendra Prajapati | Rahul Anand Kushwaha |
| **ERP**  **No.** | 220600184 | 220600175 | 220600222 | 220600189 |
| **Division** | A | A | A | A |
| **Contact No** | 8828826211 | 7506147987 | 9321791761 | 8866298746 |
| **E-mail** | [ganupawar2210@gmail.com](mailto:ganupawar2210@gmail.com) | [mayankrt04@gmail.com](mailto:mayankrt04@gmail.com) | [nehaparajapati40348@gmail.com](mailto:nehaparajapati40348@gmail.com) | [rahulk060404@gmail.com](mailto:rahulk060404@gmail.com) |
| **Address** | A-9/105 Nilgiri Lokdhara CHS LTD Lokdhara | B/602 Shree Air India CHS LTD | F-19 Shreeom Vishrantidham bldg. Near Sarvesh | Flat no.8, plot no.73 Hariom apartment, |
| Complex Phase-1 Pune Link Road | Sawarkar Nagar | Hall | Mayurban colony, Shahnoorwadi |
| Kalyan East | Thane West | Dombivli East | Aurangabad, Maharashtra |
| 421306 | 400606 | 421201 | 431005 |

**ABOUT LOG BOOK:**

Log Book is to be maintained by final year students to record all the activities performed in order to complete the Major Project work in semesters VII and VIII.

The logbook is the formal way for faculty to know and evaluate the student’s attitude, project development and progress. Therefore, this log book is important documentation for project work carried out by students.

**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. Log book duly signed by guide must be submitted with project report for evaluation at the end of semester to the department.

**DECLARATION**

I declare that this project represents my ideas in my own words and wherever others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I 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. I promise to maintain a minimum of 75% attendance, as per the University of Mumbai norms. I understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

Ganesh Pawar

Mayank Tiwari

Neha Prajapati

Rahul Kushwaha (Signature of Students)

**LOKMANYA TILAK COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER ENGINEERING**

**Academic Year (2023-24)**

## Letter of Acceptance

I undersigned, **Dr. Nandini Chandra Nag** working in the Computer Department, LTCOE, am willing to guide the project titled **Online Voting System** for the Mini Project of S.E. Semester IV for the academic year 2023-24.

The names of the students are:

1. Ganesh Manoj Pawar
2. Mayank Raghvendra Tiwari
3. Neha Rajendra Prajapati
4. Rahul Anand Kushwaha

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| \_ |  |  |
| (Project Guide) | (SE Project Coordinator) | (HOD CSE-DS) |

**LOKMANYA TILAK COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE ENGINEERING & DATA SCIENCE**

### Program Structure

S.E. CSE-DS

Second Year (CSE-DS) (Semester IV)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course Code | Course Name | Teaching Scheme | | Credits Assigned | | |
| Theory | Pract. Tut. | Theory | Pract | Total |
| CSM401 | Mini -Project 1B | - | - | - | 2 | 2 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course Code | Course Name | Examination Scheme | | | | | | | |
| CSM401 | Mini - Project 1B | Internal Assessment | | | | |  | | |
| Internal Assessment | | | End Sem Exam | Exam Duration | Term Work | Pract. & oral | Total |
| Test 1 | Tes1 | Avg |  |  |  |  |  |
| - | - | - | - | - | 25 | 25 | 50 |

**Guidelines for Mini Project-**

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| --- | --- |
| 1. | Students shall form a group of 3 to 4 students, while forming a group shall not be allowed less than three or more than four students, as it is a group activity. |
| 2. | Students should do survey and identify needs, which shall be converted into problem statement for mini project in consultation with faculty supervisor/head of department/internal committee of faculties. |
| 3. | Students shall submit implementation plan in the form of Gantt/PERT/CPM chart, which will cover weekly activity of mini project. |
| 4. | A logbook to be prepared by each group, wherein group can record weekly work progress, guide/supervisor can verify and record notes/comments. |

**Assessment criteria of Mini Project**

**Mini Project shall be assessed based on following criteria**

1.Quality of survey/ need identification 2.Clarity of Problem definition based on need 3.Innovativeness in solutions

4.Feasibility of proposed problem solutions and selection of best solution 5.Cost effectiveness

6.Contribution of an individual’s as member or leader 7.Clarity in written and oral communication

8.Full functioning of working model as per stated requirements 9.Effective use of skill sets

1. Effective use of standard engineering norms

**Distribution of marks for term work shall be as follows:**

* + Weekley log book and Evaluation Report
  + Project Work Contribution
  + Project Report (Spiral Bound)
  + Term End Presentation (Internal)

### Course Outcomes of Mini-Project

**CSM401/Mini-Project-1B/S.E-IV**

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| CO1 | Identify problems based on societal /research needs. |
| CO2 | Apply Knowledge and skill to solve societal problems in a group |
| CO3 | Develop interpersonal skills to work as member of a group or leader. |
| CO4 | Draw the proper inferences from available results through theoretical/ experimental/simulations. |
| CO5 | Analyse the impact of solutions in societal and environmental context for sustainable development. |
| CO6 | Use standard norms of engineering practices |
| CO7 | Excel in written and oral communication. |
| CO8 | Demonstrate capabilities of self-learning in a group, which leads to lifelong learning |
| CO9 | Demonstrate project management principles during project work. |

**CO-PO-PSO Mapping of Mini-Project-1B**

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

**SCHEDULE & PROGRESS /ATTENDANCE REORT FOR MINI PROJECT – 1B**

#### Department of Computer Science and Engineering (Data Science)

Academic Year- 2023-24 Mini Project-1B (Sem -IV) Progress/Attendance Report

|  |  |
| --- | --- |
| Title of the Project: Online Voting System | |
| Group No. 01 | Name of Student 1: Ganesh Manoj Pawar |
| Name of Student 2: Mayank Raghvendra Tiwari |
| Name of Student 3: Neha Rajendra Prajapati |
| Name of Student 4: Rahul Anand Kushwaha |
| Name of the Guide: Dr. Nandini Chandra Nag | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SN** | **Week** | **Date** | **Student Sign** | **Progress/Suggestion** | **Mapping** | | | **Guide Signature** |
|  |  |  |  |  | CO | PO | PSO |  |
| 1 | 1 | 16/01/2024 |  | Presentation -1 as per topic selected in Sem -IV |  |  |  |  |
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| 2 | 2 | 22/01/2024 |  | Discussion of the area and problem statement identification |  |  |  |  |
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| 3 | 3 | 05/02/2024 |  | Objectives and scope (Download and study at least 3 Research papers relevant to the selected topic and discuss with the  supervisor) |  |  |  |  |
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| 4 | 4 | 12/02/2024 |  | Requirement Analysis (Hardware and software requirement specification, Hands-on and study selected tools/ programming languages) |  |  |  |  |
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| 5 | 5 | 26/02/2024 |  | Algorithms and design (Parallel activity: Report & PPT Preparation) |  |  |  |  |
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| 6 | 6 | 04/03/2024 |  | Implementation (Evaluation and Refinement of Mid-semester Report & PPT Preparation) |  |  |  |  |
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| 7 | 7 | 11/03/2024 |  | Mid-term Presentation and Demonstration |  |  |  |  |
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| 8 | 8 | 18/03/2024 |  | Implementation & PPT Preparation |  |  |  |  |
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| 9 | 9 | 26/03/2024 |  | Progress presentation |  |  |  |  |
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| 10 | 10 | 30/04/2024 |  | Result analysis |  |  |  |  |
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| 11 | 11 | 08/04/2024 |  | Report writing, Evaluation, and Refinement |  |  |  |  |
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| 12 | 12 | 16/04/2024 |  | Final Report & PPT Preparation |  |  |  |  |
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| 13 | 13 | 20/04/2024 |  | Presentation and Demonstration |  |  |  |  |
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Sign of the Guide