**MINI PROJECT LOGBOOK**

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

GROUP MEMBERS

1. Manan Dadlani (09)

2. Ajay Gangwani (15)

3. Manish Mulchandani (43)

Mrs. Nusrat Ansari



**Department of Computer Engineering**

# **Vivekanand Education Society’s Institute of Technology,**

**An Autonomous Institute affiliated to University of Mumbai**

# **HAMC, Collector’s Colony, Chembur,**

**Mumbai-400074**

**University of Mumbai (AY 2023-24)**

# **INSTITUTE VISION & MISSION**

## **VISION:**

## To create a vibrant knowledge oriented environment with innovative teaching practices andto inculcate a tradition of socially conscious application of technology.

## **MISSION:**

* To inculcate a culture of value based education.
* To enthuse students to develop in an ambient environment of caring and of sharing information.
* To enable students to work towards excellence in their chosen field with a professional bent of mind.

# **COMPUTER ENGINEERING DEPARTMENT**

## **VISION:**

## To reach international standards by empowering students with Computing skills and cutting edge technology

## **MISSION:**

* + To sustain excellence in teaching and research and create center of excellence
  + To provide broad Educational and Research experiences through interdisciplinary and industrial collaboration programs.
  + To prepare students to enter the world of computing and make them ready for productive employment in the public or private sectors, enhance their entrepreneurship skills and motivate them to pursue advanced degrees.

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

| I | To provide students with a solid foundation in their core concepts of mathematical, scientific and computer engineering fundamentals required to comprehend, analyze and design solutions for real life problems. |
| --- | --- |
| II | To inculcate in students, a balanced outlook with professional and ethical attitude, develop effective communication skills, teamwork and leadership qualities with multidisciplinary approach. |
| III | To prepare students to excel in postgraduate programs through an excellent academic environment and make them ready for productive employment in the public or private sectors and provide lifelong learning experience. |
| IV | To provide broad educational and research experience through interdisciplinary and industry centric programs. |

**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 using 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 | **Professional Skills** - The ability to develop programs for computer based systems of  varying complexity and domains using standard practices. |
| --- | --- |
| PSO2 | **Successful Career** - The ability to adopt skills, languages, environment and platforms for  creating innovative career paths, being successful entrepreneurs or for pursuing higher studies. |

**STUDENT INFORMATION**

## **Project Title:**

|  | **Student 1** | **Student 2** | **Student 3** |
| --- | --- | --- | --- |
| **Roll No.** | 09 | 15 | 43 |
| **Name** | Manan Dadlani | Ajay Gangwani | Manish Mulchandani |
| **Class with   Division** | D12A | D12A | D12A |
| **Contact No.** | 8080321327 | 8624899983 | 9623122494 |
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| **Address** | 26, Satyasai society, Duttawadi, near NIT playground | 303, Rajlaxmi Palace, near Kuldevi Mata Mandir, Gandhi Road, | C-75, Ambe Niwas, Seth Surajmal bagicha, Adarsh Colony,  Malviya ward |
| Nagpur- 440023 | Ulhasnagar-421005 | Gondia- 441601 |

**INSTRUCTIONS TO STUDENTS:**

1. The logbook must be submitted to the mentor or Co-Mentor 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**

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 minimum 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

1. Manan Dadlani (09)
2. Ajay Gangwani (15)
3. Manish Mulchandani (43)

(Signature of Students)

# **Letter of Acceptance**

I undersigned, Prof. ***Mrs. Nusrat Ansari*** working in the Computer Engineering department, willing to guide the project titled **Ultrasound image analysis for detection of down syndrome** for the Mini Project 2 B Semester V respectively for the ***Academic Year 2023-24.*** The names of the students are:

1. **Manan Dadlani**
2. **Ajay Gangwani**
3. **Manish Mulchandani**

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

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# **COURSE OUTCOMES**

| **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 |
| CO9 | Demonstrate project management principles during project work. | PO1,PO2,PO4,  PO11,PO12 | PSO1,POS2 |

**CO-PO-PSO MAPPING**

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CO1 | 1 | 2 | - | 2 | - | - | - | - | - | - | - | - | 1 | 1 |
| CO2 | 2 | 2 | - | 2 | 3 | 2 | - | 2 | - | - | - | - | 2 | 1 |
| CO3 | 1 | 1 | - | 2 | - | - | - | - | 3 | 3 | - | - | 1 | 1 |
| CO4 | 2 | 1 | - | 1 | 2 | 2 | - | - | - | - | - | 2 | 2 | 1 |
| CO5 | - | 2 | 1 | 2 | - | - | 3 | - | - | - | - | 1 | 1 | 2 |
| CO6 | 1 | 2 | - | 1 | - | - | - | - | - | - | - | 2 | 2 | - |
| CO7 | 1 | - | - | 1 | - | - | - | 3 | 2 | 2 | - | 1 | 1 | - |
| CO8 | 1 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | 1 | - |
| CO9 | 1 | 1 | - | 2 | - | - | - | - | - | - | 2 | 2 | 1 | 2 |

**SCHEDULE FOR MINI PROJECT**

| **Date** | **Week** | **Contents** | **Remark** | **Guide Sign** |
| --- | --- | --- | --- | --- |
| 16/01/2024 | 1 | Discussed about the next steps to be taken on the project. |  |  |
| 23/01/2024 | 2 | Discussed about the dataset collection. |  |  |
| 01/02/2024 | 3 | Whole group discussed the project with the mentor and divided the work accordingly. |  |  |
| 05/02/2024 | 4 | We couldn't find the premade dataset so we discussed with our mentor about creating a new one. |  |  |
| 05/02/2024 | 4 | On the same day, met our mentor again to discuss the tool to be used for labeling and annotation. |  |  |
| 06/02/2024 | 4 | Discussed with the mentor about the PPT creation and some issues in coordinating with the group. |  |  |
| 07/02/2024 | 4 | Again discussed about the labeling tool. |  |  |
| 07/02/2024 | 4 | Discussed about the log book and creation of other documents for mini project submission. |  |  |

**PROGRESS/ATTENDANCE REPORT**

| Title of the Project: **Ultrasound image analysis for detection of down syndrome** | |
| --- | --- |
| Group No. 35 | 1. **Manan Dadlani** 2. **Ajay Gangwani** 3. **Manish Mulchandani** |
|
|
|
| Name of the Supervisor: | |

| **Sr. No** | **Date** | **Attendance** | | | **Progress/Suggestion** | **Mapping** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **CO** | **PO** | **PSO** |
| 1 | 16/01/2024 | A | A | ✓ | Discussed about the next steps to be taken on the project. |  |  |  |
| 2 | 23/01/2024 | A | A | ✓ | Discussed about the dataset collection. |  |  |  |
| 3 | 01/02/2023 | ✓ | ✓ | ✓ | Whole group discussed the project with the mentor and divided the work accordingly. |  |  |  |
| 4 | 05/02/2024 | A | A | ✓ | Wasn't able to find the premade dataset so discussed with mentor about creating a new one. |  |  |  |
| 5 | 05/02/2024 | A | A | ✓ | On same day, met our mentor again to discuss the tool to be used for labeling and annotation. |  |  |  |
| 6 | 06/02/2024 | A | A | ✓ | Discussed with the mentor about the PPT creation and issues with the group. |  |  |  |
| 7 | 07/02/2024 | A | ✓ | A | Again discussed about the labeling tool. |  |  |  |
| 8 | 07/02/2024 | A | A | ✓ | Discussed about the log book and creation of other documents for mini project submission. |  |  |  |
| 9 | 14/02/2024 | A | A | ✓ | Met mentor regarding the dataset inquiry. |  |  |  |
| 10 | 20/02/2024 | A | A | ✓ | Decided to take a Brain datasheet instead of Face. |  |  |  |

| 11 | 23/02/2024 | A | A | ✓ | Discussed problems among the group members with mentor. |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 13/03/2024 | A | ✓ | ✓ | Shown a demo of the project to mentor. |  |  |  |
| 13 | 15/03/2024 | A | ✓ | ✓ | Re review day after which we discussed about UI implementation |  |  |  |
| 14 | 26/03/2024 | A | A | ✓ | Discussed about hackathon related things. |  |  |  |
| 15 | 12/04/2024 | ✓ | A | ✓ | Meeting to discuss the project report and related documents. |  |  |  |

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**