

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

Final Year Project Work

**Academic Year: 2023-24**

|  |  |  |
| --- | --- | --- |
| **Project Title** | : | Accurate Prediction of Sepsis in ICU Patients |
| **Project Area** | : | Machine Learning |
| **Internal Guide** | : | Prof. M. A. Rane |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

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**SEMESTER-I**

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**UNDERTAKING BY STUDENTS**

We, the students of B.E (I.T) are hereby assured that we will follow all the rules and regulations of SPPU related to the project work for the academic year. The Project entitled “Accurate Prediction of Sepsis in ICU Patients” will be fully designed and developed by us and no part of the project/full project will be designed and developed by any external entity or copied from some external resources. We are fully aware that copying or taking the help of any external agency in the development of our project is unethical and illegal. The examiners have /University has full rights to initiate an action against us as per university norms if involved in unfair/illegal/unethical work.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Roll No.** | **Name of Student** | **Signature** |
| 1 | 4306 | Sneha Bamane |  |
| 2 | 4341 | Shweta Maharanawar |  |
| 3 | 4357 | Devyani Pathrikar |  |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**Rules & Regulations**

1. All students must enter the correct information in the workbook.
2. All the entries in the project workbook must be verified by the concerned project guide.
3. Students must report to their respective guide on project day as per the timetable.
4. Activities of the project work should be completed as per the project plan only.
5. The Project group must submit soft copies of the Project Abstract, Project Report and Publications in PDF format only.
6. Project group members submit **two** hard copies of the Project Report in the format provided by the department.
7. Project workbooks must be brought at the time of Project Reviews and project Examination. Any changes, if any, must be countersigned by the concerned project guide.
8. For project reviews and project examinations, all students must report 15 minutes before the scheduled time.
9. For any query, the concerned guide should be consulted.

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-2024)**

**PROJECT WORK SCHEDULE**

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Activity Scheduled** | **Date** |
| **SEMESTER - I** | | |
| 1. | Registration of Project Groups | 03/07/2023 |
| 2. | Project Topic Submission | 15/07/2023 |
| 3. | Allocation of Guide | 10/07/2023 |
| 4. | Submission of Abstract to Project Guide and Project  Coordinator in the Prescribed Format | 22/08/2023 |
| 5. | Project Review - I | 31/07/2023 |
| 6. | Project Review - II | 16/10/2023 |
| 7. | Verification of Project Workbook by Internal Guide (before submission of Preliminary Project Report) | 04/11/2023 |
| 8. | Submission of Final Preliminary Project Report in Prescribed  Format | 06/11/2023 |
|  | External Term-work Evaluation (After Theory Examination) | 08/11/2023 |
| **SEMESTER - II** | | |
| 1. | Project Review - III | 27/02/2024 |
| 2. | Project Review - IV | 15/04/2024 |
| 3. | Submission of Draft Copy of Final Project Report to Guide | 30/04/2024 |
| 4. | Verification of Project Book by Internal Guide (before submission of Final Project Report) | 15/05/2024 |
| 5. | Submission of Final Project Report in Prescribed Format | 22/05/2024 |
|  | Final Project Examination (After Theory Examination) | 29/05/2024 |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-2024)**

**Project Group No.: 16**

**College Code:4034**

**Project Title:** **Accurate Prediction of Sepsis in ICU Patients**

**GROUP DETAILS:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Roll No.** | **Name of the Student** | **Mobile No.** | **Email id** | **T. E. Result** |
| 1 | 4306 | Sneha Bamane | 9699006770 | bamanesneha@gmail.com | NA |
| 2 | 4341 | Shweta Maharanawar | 7028672817 | shwetamaharanawar@gmail.com | 7.81 |
| 3 | 4357 | Devyani Pathrikar | 9809940400 | devyanipathrikar@gmail.com | 6.98 |

Prof. M. A. Rane

Name & Signature

Internal Guide

Mobile No.: 99603 77521

Email Id: Mugdha.Rane@bharatividyapeeth.edu

Prof. Dr. D. A. Godse

Name & Signature

Head of Department of Information Technology

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-2024)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title:** **Accurate Prediction of Sepsis in ICU Patients** | | | |
| **Project Group No.: 16** | | **Guide Name: Prof. M.A.Rane** | |
| **GROUP MEMBERS:** | | | |
| **Roll No. / Seat No.** | **Name of Student** | **Project Area** | **Project Platform** |
| 4306 | Sneha Bamane | Machine Learning | VS Code, Jupyter |
| 4341 | Shweta Maharanawar |
| 4357 | Devyani Pathrikar |

**ABSTRACT**

The "Accurate Prediction of Sepsis in ICU Patients" initiative is a comprehensive approach to addressing sepsis, a severe and often life-threatening condition frequently encountered in intensive care units (ICUs). This initiative combines an awareness campaign with advanced predictive modeling to improve early detection and intervention. The awareness campaign aims to educate the public and healthcare professionals about sepsis, emphasizing its severity, common symptoms—such as fever, increased heart rate, rapid breathing, confusion, and severe discomfort—and the critical need for prompt medical attention. By empowering individuals to recognize these signs early and seek immediate help, the campaign seeks to improve patient outcomes significantly.

Concurrently, the initiative employs advanced machine learning techniques, particularly the Random Forest algorithm, to develop a predictive model for sepsis. This involves comprehensive data preprocessing to ensure data quality, addressing class imbalances to avoid biased predictions, and incorporating clinical assessment tools like the Sequential Organ Failure Assessment (SOFA) and quick SOFA (qSOFA) criteria. These steps enhance the model's accuracy in identifying patients at high risk of sepsis, enabling timely and targeted interventions that can be life-saving.

A dedicated website supports this dual approach by serving as a central hub for sepsis education and the dissemination of the predictive model. It offers valuable resources, including educational materials and guidelines for recognizing sepsis symptoms, and provides healthcare professionals with access to the predictive model for clinical use.

In summary, the "Accurate Prediction of Sepsis in ICU Patients" initiative aims to raise sepsis awareness, improve predictive capabilities, and support healthcare professionals and the public in combating sepsis, contributing to a healthier and more informed future.

**Keywords: Sepsis, Random Forest, Intensive care units (ICUs), Sequential Organ Failure Assessment (SOFA), quick SOFA (qSOFA).**

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-2024)**

**Semester - I**

**Weekly Planning Sheet**

**Academic Year: 2023 - 2024**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week**  **No.** | **Activity Planned** | **Activity Completed Status** | **Student**  **Signature** | **Guide**  **Signature** |
| **Week 1** | Finalization of Domain and Project Title | Completed |  |  |
| **Week 2** | Literature Survey | Completed |  |
| **Week 3** | Preparation of review-1 Presentation | Completed |  |
| **Week 4** | Finalization of objectives, motivation and list of required hardware, software. | Completed |  |
| **Week 5** | System overview, proposed system and expected outcomes | Completed |  |  |
| **Week 6** | Architecture and initial design identification for journal publication, User and System requirements | Completed |  |
| **Week 7** | Detailed Architecture/system Design | Completed |  |
| **Week 8** | Detailed Design(DFD) | Completed |  |
| **Week 9** | 30-40% coding documentation | Completed |  |  |
| **Week 10** | Research Paper-1 submission | Completed |  |
| **Week 11** | Testing and coding documentation | Completed |  |
| **Week 12** | Project Report Phase-I submission | Completed |  |

Prof. Dr. K. A. Malgi Prof. M. A. Rane

Project Coordinator Internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – I**

**(Academic Year: 2023-2024)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Id:** | | **16** | | **Date: 31/07/2023** | |
| **Project Title: Accurate Prediction of Sepsis in ICU Patients** | | | | | |
| **Sr.No.** | **Roll No.** | **Student Name** | **Contact Details** | **Internal / External Guide Details** | |
| 1 | 4306 | Sneha Bamane | 9699006770 | Guide Name: Prof. M. A. Rane | |
| 2 | 4341 | Shweta Maharanawar | 7028672817 | Email: Mugdha.Rane@bharatividyapeeth.edu  Mobile No.: 99603 77521 | |
| 3 | 4357 | Devyani Pathrikar | 9809940400 |
| **Project STATEMENT** | | | | | |
| 1. Is the statement short and concise (10-20 words maximum)? | | | | | Y / N / NA / NC\* |
| 2. Does the statement gives clear indication about what your project will accomplish? | | | | | Y / N / NA / NC\* |
| 3. Can a person who is not familiar with the project understand scope of the project by reading  the Project Problem Statement? | | | | | Y / N / NA / NC\* |
| **REQUIREMENT: SCOPE AND OBJECTIVES** | | | | | |
| Does the Scope and Objectives establish the "context" for the proposed project by referencing to the following elements: | | | | |  |
| a. Are all aspects of the requirements document (i.e., Functional Spec.) addressed in the  design? | | | | | Y / N / NA / NC\* |
| b. Is the architecture / block diagram well defined and understood? | | | | | Y / N / NA / NC\* |
| c. The project's objective of study (what product, process, resource etc.) is being addressed? | | | | | Y / N / NA / NC\* |
| d. The project's purpose is the purpose of project addressed properly (why it is being pursued:  to evaluate, reduce, increase, etc.)? | | | | | Y / N / NA / NC\* |
| e. The project's viewpoint: Is the project’s viewpoint is understood? (Who is the project's end user)? | | | | | Y / N / NA / NC\* |
| f. Is the project goal statement being in alignment with the sponsoring organization’s business  goals and mission? | | | | | Y / N / NA / NC\* |
| **ANALYSIS** | | | | | |
| 1. Is information domain analysis complete, consistent, and accurate? | | | | | Y / N / NA / NC\* |
| 2. Is problem statement categorized in identified area and targeted towards specific area therein? | | | | | Y / N / NA / NC\* |
| 3. Are external and internal interfaces properly defined? | | | | | Y / N / NA / NC\* |
| 4. Does the Use Case Model accurately reflect the actors and their roles and responsibilities? | | | | | Y / N / NA / NC\* |
| 5. Are all requirements traceable to system level? | | | | | Y / N / NA / NC\* |
| 6. Is similar type of methodology / model is used for existing work | | | | | Y / N / NA / NC\* |
| 7. Are requirements consistent with schedule, resources, and budget | | | | | Y / N / NA / NC\* |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – I**

**(Academic Year: 2023-2024)**

**STUDENT PERFORMANCE EVALUATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Students’ Contribution and Performance** | | | | |
| **Particulars** | **Marks(25M)** | | | |
| **Group Members** | | | |
| 1 | 2 | 3 | 4 |
| 1. Background and Topic (4 M) |  |  |  |  |
| 2. Project Scope and Objectives (4M) |  |  |  |  |
| 3. Literature Survey (5 M) |  |  |  |  |
| 4. Project Planning (4 M) |  |  |  |  |
| 5. Presentation Skills (4 M) |  |  |  |  |
| 6. Question and Answer (4 M) |  |  |  |  |
| **Total(25M)** |  |  |  |  |
| **Comments (if any)** | | | | |

# To be filled by internal guide & reviewer(s) only.

\* Whether the presentation / evaluation is as per the schedule.: YES / NO (If NO mention the reasons for the same.)

**Review – I: Deliverables**

• Problem Statement / Title

• Purpose, Scope, Objectives

• Abstract (System Overview)

• Introduction (Architecture and High-level Design)

• Literature Survey

• References

• Project Plan 1.0

Name & Signature of evaluation committee -

Prof. S. A. Hadke Prof. M. A. Rane

Name of Reviewer 1 Name of Internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – II**

**(Academic Year: 2023-2024)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Group Id:** | | 16 | | **Date: 16/10/2023** |
| **Project Title: Accurate Prediction of Sepsis in ICU Patients** | | | | |
| **Sr.No.** | **Roll No.** | **Student Name** | **Contact Details** | **Internal / External Guide Details** |
| 1 | 4306 | Sneha Bamane | 9699006770 | Guide Name: Prof. M. A. Rane |
| 2 | 4341 | Shweta Maharanawar | 7028672817 | Email: Mugdha.Rane@bharatividyapeeth.edu  Mobile No.: 99603 77521 |
| 3 | 4357 | Devyani Pathrikar | 9809940400 |

**CKLIST: DESIGN 25 Mark**

|  |  |
| --- | --- |
| **DESIGN** | |
| 1. Are requirements reflected in the system architecture? | Y / N / NA / NC\* |
| 2. Does the design support both project (product) and project goals? | Y / N / NA / NC\* |
| 3. Does the design address all the issues from the requirements? | Y / N / NA / NC\* |
| 4. Is effective modularity achieved and modules are functionally independent? | Y / N / NA / NC\* |
| 5. Are structural diagrams (Class, Object, etc.) well defined and understood? | Y / N / NA / NC\* |
| 6. Are all class associations clearly defined and understood? (Is it clear which classes provide  which services)? | Y / N / NA / NC\* |
| 7. Are the classes in the class diagram clear? (What they represent in the architecture design  document?) | Y / N / NA / NC\* |
| 8. Is inheritance appropriately used? | Y / N / NA / NC\* |
| 9. Are the multiplicities in the use case diagram depicted in the class diagram? | Y / N / NA / NC\* |
| 10. Are behavioral diagrams (use case, sequence, activity, etc.) well defined and understood? | Y / N / NA / NC\* |
| 11. Is aggregation/containment (if used) clearly defined and understood? | Y / N / NA / NC\* |
| 12. Does each case have clearly defined actors and input/output? | Y / N / NA / NC\* |
| 13. Is all concurrent processing (if used) clearly understood and reflected in the sequence  diagrams? | Y / N / NA / NC\* |
| 14. Are all objects used in sequence diagram? | Y / N / NA / NC\* |
| 15. Does the sequence diagram match class diagram? | Y / N / NA / NC\* |
| 16. Are the symbols used in all diagrams correspond to UML standards? | Y / N / NA / NC\* |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – II**

**(Academic Year: 2023-2024)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student’s Contribution and Performance | | | | |
| **Particulars** | **Marks(25M)** | | | |
| **Group Members** | | | |
| 1 | 2 | 3 | 4 |
| 1. System Architecture & Literature Survey (Review-I) | Y/N | Y/N | Y/N | Y/N |
| 2. Project Design (5 M) |  |  |  |  |
| 3. Methodology /Algorithms and Project Features (5 M) |  |  |  |  |
| 4. Project Planning (2 M) |  |  |  |  |
| 5. Basic details of Implementation (5 M) |  |  |  |  |
| 6. Presentation Skills (4 M) |  |  |  |  |
| 7. Question and Answer (4 M) |  |  |  |  |
| 8. Summarization of ultimate findings of the Project | Y/N | Y/N | Y/N | Y/N |
| **Total(25M)** |  |  |  |  |
| **Comments (if any)** | | | | |

# To be filled by an internal guide & reviewer(s) only.

\* Whether the presentation / evaluation is as per the schedule.: YES / NO (If NO mention the reasons for the same.)

**Review – II: Deliverables**

|  |  |
| --- | --- |
| • Problem Statement / Title |  Modules Split-up |
| • Abstract |  Proposed System |
| • Introduction |  Software Tools / Technologies to be used |
| • Literature Survey (comparison with existing system) |  Proposed Outcomes |
| • Methodology |  Partial Report (Semester – I) |
| • Design / algorithms/ techniques used |  Project Plan 2.0 |

Name & Signature of evaluation committee -

Prof. S. A. Hadke Prof. M. A. Rane

Name of Reviewer 1 Name of Internal Guide

SEMESTER-II

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-24)**

**Semester – II**

**Weekly Planning Sheet**

**Academic Year: 2023 – 2024**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week**  **No.** | **Activity Planned** | **Activity Completed Status** | **Student**  **Signature** | **Guide**  **Signature** |
| **Week 1** | Detailed Study of Quiz generation algorithm | Completed |  |  |
| **Week 2** | Designed Workflow of Quiz generation, exam creation and grading modules | Completed |  |
| **Week 3** | Designed Detailed Data Flow Diagrams (DFD) | Completed |  |
| **Week 4** | Designed detailed UML Diagrams like Class Diagram and Activity Diagram | Completed |  |
| **Week 5** | Designed detailed UML Diagrams like Use-case and Sequence Diagram | Completed |  |
| **Week 6** | 60 – 70 % coding | Completed |  |  |
| **Week 7** | Detailed study of various algorithms used for generating good quality MCQs. | Completed |  |
| **Week 8** | 100 % Coding | Completed |  |
| **Week 9** | Finding appropriate test cases | Completed |  |
| **Week 10** | Evaluating the system according to test cases | Completed |  |  |
| **Week 11** | Prepare final project documentation and reports. | Completed |  |
| **Week 12** | Project Report Phase – II submission | Completed |  |

Prof. Dr. K. A. Malgi Prof. M. A. Rane

Project Coordinator Internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – III**

**(Academic Year: 2023-2024)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Id:** | | **16** | | **Date: 26/02/2024** | |
| **Project Title: Accurate Prediction of Sepsis in ICU Patients** | | | | | |
| **Sr.No.** | **Roll No.** | **Student Name** | **Contact Details** | **Internal / External Guide Details** | |
| 1 | 4306 | Sneha Bamane | 9699006770 | Guide Name: Prof. M. A. Rane | |
| 2 | 4341 | Shweta Maharanawar | 7028672817 | Email: Mugdha.Rane@bharatividyapeeth.edu  Mobile No.: 99603 77521 | |
| 3 | 4357 | Devyani Pathrikar | 9809940400 |
| **Implementation (SOURCE CODE REVIEW CHECKLIST)** | | | | | |
| **a. Structure** | | | | |  |
| 1. Does the code completely and correctly implement the design? | | | | | Y / N / NA / NC\* |
| 2. Does the code comply with the Coding Standards? | | | | | Y / N / NA / NC\* |
| 3. Is the code well-structured, consistent in style, and consistently formatted? | | | | | Y / N / NA / NC\* |
| 4. Does the implementation match the design? | | | | | Y / N / NA / NC\* |
| 5. Are all functions in the design coded? | | | | | Y / N / NA / NC\* |
| **b. Documentation** | | | | |  |
| 1. Is the code clearly and adequately documented? | | | | | Y / N / NA / NC\* |
| 2. Are all comments consistent with the code? | | | | | Y / N / NA / NC\* |

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – III**

**(Academic Year: 2023-2024)**

**STUDENT PERFORMANCE EVALUATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Students’ Contribution and Performance** | | | | |
| **Particulars** | **Marks(25M)** | | | |
| **Group Members** | | | |
| 1 | 2 | 3 | 4 |
| 1. Architecture / System Design - (if any modification) | Y/N | Y/N | Y/N | Y/N |
| 2. 50 % Implementation (10 M) |  |  |  |  |
| 3. Partial results obtained (7 M) |  |  |  |  |
| 4. Presentation skills (4 M) |  |  |  |  |
| 5. Question and Answer (4 M) |  |  |  |  |
| 6. Summarize the methodologies / Algorithms implemented / to be implemented | Y/N | Y/N | Y/N | Y/N |
| **Total(25M)** |  |  |  |  |
| **Comments (if any)** | | | | |

# To be filled by an internal guide & reviewer(s) only.

\* Whether the presentation / evaluation is as per the schedule.: YES / NO (If NO mention the reasons for the same.)

**Review – III: Deliverables**

• Detailed Design (if any deviation)

• 50% of code implementation

• Some Experimental Results

• Project Plan 3.0

Name & Signature of evaluation committee -

Prof. S. A. Hadke Prof. M. A. Rane

Name of Reviewer 1 Name of internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – IV**

**(Academic Year: 2023-2024)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Id:** | | **16** | | **Date: 15/04/2024** | |
| **Project Title: Accurate Prediction of Sepsis in ICU Patients** | | | | | |
| **Sr.No.** | **Roll No.** | **Student Name** | **Contact Details** | **Internal / External Guide Details** | |
| 1 | 4306 | Sneha Bamane | 9699006770 | Guide Name: Prof. M. A. Rane | |
| 2 | 4341 | Shweta Maharanawar | 7028672817 | Email: Mugdha.Rane@bharatividyapeeth.edu  Mobile No.: 99603 77521 | |
| 3 | 4357 | Devyani Pathrikar | 9809940400 |
| **IMPLEMENTATION AND TESTING** | | | | | |
| 1. **Is every** feature evaluated? | | | | | Y / N / NA / NC\* |
| 2. Are all functions, user screens and navigation evaluated? (e.g., module, object,  integration, usability, system) | | | | | Y / N / NA / NC\* |
| 3. Are test cases designed? (Manual and automated) | | | | | Y / N / NA / NC\* |
| 4. Is the testing tool used? | | | | | Y / N / NA / NC\* |
| 5. Is the result analysis done properly and the appropriate conclusion drawn? | | | | | Y / N / NA / NC\* |
| 6. Implementation status (code completion in percentage) | | | | |  |
| 7. Final thesis status (in percentage) | | | | |  |

**FILL IN BRIEF**

Final results are known or not? :

Quality of Presentation :

List the chapter numbers of final report :

Project Completion Date :

Final Report Submission Date :

**General**

Is the LOGBOOK of the project up-to-date and signed?

 NC – Not Clear

 NA – Not Applicable

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – IV**

**(Academic Year: 2023-2024)**

**STUDENT PERFORMANCE EVALUATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Students’ Contribution and Performance** | | | | |
| **Particulars** | **Marks(25M)** | | | |
| **Group Members** | | | |
| 1 | 2 | 3 | 4 |
| 1. Implementation (100%) (5 M) |  |  |  |  |
| 2. Testing, Results and Performance Evaluation (5 M) |  |  |  |  |
| 3. Final Project Report (5 M) |  |  |  |  |
| 4. Publications (2 M) |  |  |  |  |
| 5. Presentation skills (4 M) |  |  |  |  |
| 6. Question and Answer (4 M) |  |  |  |  |
| **Total(25M)** |  |  |  |  |
| **Comments (if any)** | | | | |

# To be filled by internal guide & reviewer(s) only.

\* Whether the presentation/evaluation is as per the schedule.: YES / NO (If NO mention the reasons for the same.)

**Review – IV: Deliverables**

• Detailed Design

• 100% of code implementation

• Experimental Results

• Performance Evaluation

• Test Cases

• Result Analysis and Conclusion

• Final Thesis

• Project Plan 4.0

Name & Signature of evaluation committee -

Prof. S. A. Hadke Prof. M. A. Rane

Name of Reviewer 1 Name of Internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**PROJECT REVIEW – I TO IV**

**(Academic Year: 2023-2024)**

**Summary of Project Work Evaluation Sheet**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Roll No. /**  **Exam. No.** | **Name of the Student** | **I** | **II** | **III** | **IV** | **Total** | **Student**  **Signature** |
| 1 | 4306 | Sneha Bamane |  |  |  |  |  |  |
| 2 | 4341 | Shweta Maharanawar |  |  |  |  |  |  |
| 3 | 4357 | Devyani Pathrikar |  |  |  |  |  |  |
|  | | | | | | | | |
| **Overall Remarks or Comments (if any)** | | | | | | | | |

Prof. S. A. Hadke Prof. M. A. Rane

Name of Reviewer 1 Name of Internal Guide

**Bharati Vidyapeeth’s College of Engineering for Women, Pune-43**

**Department of Information Technology**

**(Academic Year: 2023-2024)**

**Participation in Project Competition/Event**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Name & Place of Project**  **Competition / Exhibition** | **Date** | **Certificate / Prizes won.**  **(If any)** |
| 1 | Prakalp 2024 Project Competition at JSPM, Pune | 20-03-2024 | Certificates of Participation |
| 2 | Technophilia at Bharati Vidyapeeth’s College of Engineering for Women (BVCOEW), Pune | 04-04-2024 | Certificate of Participation |
| 3 | NESIA project Competition, Pune | 06-03-2024 | Shortlisted in Top 50 |

**+**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of the organizing society** | **Date** | **Certificate / Prizes Win**  **(If any)** |
| 1 |  |  |  |
| 2 |  |  |  |

Prof. Dr. K. A. Malgi Prof. M. A. Rane

Project Coordinator Internal Guide