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**Institute of Engineering, Nashik-3**

**Department of Computer Engineering**

**B.E Project Work Book 2021-22**

**Course Code: (410248 & 410256)**

**Group No: 02**

**Project Title: Artificially Intelligent Traffic Management System**

**Project Area: Artificial Intelligent**

**Project Sponsored by: None**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of the student** | **Roll No.** | **Mobile No. & Email-ID** |
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|  |  |  |
| --- | --- | --- |
| **Sr.**  **No.** | **Name of Guide (G)/Co-Guide (CG)** | **Mobile No. & Email-ID** |
| **1.** | **G-** Mr. Ravindra P Aher | 8275072104 |
| raviaher21@gmail.com |
| **2.** | **CG-** |  |
|  |

**General Instructions**

1. Students should enter the correct information in the work book.
2. Get all entries verified by respective project guide. No changes are to be made without project guide’s permission.
3. Students should report to their respective guides as per the schedule and its log is to be maintained in the work book.
4. Follow all deadlines and submit all documents strictly as per prescribed formats.
5. The work book should be produced at the time of all discussions, presentations and examinations.
6. The work book must be submitted to project coordinator/ guide/ department / College after successful examination at the end of year.

**INDEX**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Particulars** | **Page No.** |
|  | **List of POs** | **4** |
|  | 1. **List of PSOs** | **5** |
|  | 1. **List of Course Outcomes (Stage I and II)** | **6** |
|  | 1. **Mapping of POs with Course Outcomes (Stage I)** | **7** |
|  | 1. **Mapping of POs with Course Outcomes (Stage II)** | **8** |
|  | 1. **Mapping of PSOs with Course Outcomes (Stage I)** | **9** |
|  | 1. **Mapping of PSOs with Course Outcomes (Stage II)** | **10** |
|  | 1. **Industry Sponsorship information/certificate** |  |
|  | 1. **Stage – I: Project Schedule Semester – I** | **12** |
|  | **Abstract** | **13** |
|  | **Stage I - Continuous Progress and assessment (Reporting)** | **15** |
|  | **Stage I - Project Progress Report** | **16** |
|  | **Stage I - Project Work discussion details (if any)** | **17** |
|  | **Stage I - Project Evaluation (I, II, III)** | **20** |
|  | 1. **Stage II: Project Schedule Semester – II** | **23** |
|  | **Stage II - Continuous Progress and assessment (Reporting)** | **24** |
|  | **Stage II - Project Progress Report** | **25** |
|  | **Stage II - Project Work discussion details (if any)** | **26** |
|  | **Stage II - Project Evaluation (I, II, III)** | **29** |
|  | **Project Completion Certificate (for Sponsored project)** | **32** |
|  | **Project Competition /Copy right and Patent details if any** | **33** |
|  | **Papers Publication** | **34** |
|  | **Expert Feedback Stage I & II (if any)** | **35** |

1. **List of POs**
2. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
3. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
4. Design/development of solutions: Design solutions for complex 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.
5. Conduct investigations of complex problems: 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.
6. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
7. The engineer and society: 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.
8. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
9. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
10. Individual and team work: Function effectively as an individual, and as a member or leader in diver seat, and in multidisciplinary settings.
11. 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.
12. Project management and finance: 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.
13. Life-long learning: 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.
14. **List of PSOs**
15. To strengthen mathematical and computer engineering foundations for development of an individual;
16. To enrich practical exposure in open source, advanced computational tools and soft skills with holistic approach;
17. To design and develop applications with concepts and knowledge acquired in the domain specific using modern hardware and softwares.
18. **List of Course Outcomes**

**Project Work Stage I**

* + 1. Solve real life problems by applying knowledge.
    2. Analyze alternative approaches, apply and use most appropriate one for feasible solution.
    3. Write precise reports and technical documents in a nutshell.
    4. Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work, Inter-personal relationships, conflict management and leadership quality.

**Project Work Stage II**

1. Show evidence of independent investigation.
2. Critically analyze the results and their interpretation.
3. Report and present the original results in an orderly way and placing the open questions in the right perspective.
4. Link techniques and results from literature as well as actual research and future research lines with the research.
5. Appreciate practical implications and constraints of the specialist subject
6. **Mapping of POs with (Project Work Stage I) Course Outcomes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CO No.** | **Course Outcome** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **410248.1** | Solve real life problems by applying knowledge. | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 3 | 2 |
| **410248.2** | Analyze alternative approaches, apply and use most appropriate one for feasible solution. | 3 | 3 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 3 |
| **410248.3** | Write precise reports and technical documents in a nutshell. | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 3 | 2 | 3 | 3 |
| **410248.4** | Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work, Inter-personal relationships, conflict management and leadership quality. | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 3 |

1. **Mapping of POs with (Project Work Stage II) Course Outcomes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CO No.** | **Course Outcome** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **410256.1** | Show evidence of independent investigation. | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 |
| **410256.2** | Critically analyze the results and their interpretation. | 3 | 3 | 3 | 1 | 1 | 3 | 1 | 1 | 3 | 1 | 1 | 1 |
| **410256.3** | Report and present the original results in an orderly way and placing the open questions in the right perspective. | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| **410256.4** | Link techniques and results from literature as well as actual research and future research lines with the research. | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 1 | 3 | 1 | 1 | 1 |
| **410256.5** | Appreciate practical implications and constraints of the specialist subject | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |

1. **Mapping of PSOs with (Project Work Stage I) Course Outcomes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CO No.** | **Course Outcome** | **PSO1** | **PSO2** | **PSO3** |
| **410248.1** | Solve real life problems by applying knowledge. | 1 | 2 | 3 |
| **410248.2** | Analyze alternative approaches, apply and use most appropriate one for feasible solution. | 2 | 2 | 1 |
| **410248.3** | Write precise reports and technical documents in a nutshell. | 2 | 2 | 2 |
| **410248.4** | Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work, Inter-personal relationships, conflict management and leadership quality. | 2 | 2 | 2 |

1. **Mapping of PSOs with (Project Work Stage II) Course Outcomes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CO No.** | **Course Outcome** | **PSO1** | **PSO2** | **PSO3** |
| **410256.1** | Show evidence of independent investigation. | 2 | 3 | 1 |
| **410256.2** | Critically analyze the results and their interpretation. | 2 | 1 | 2 |
| **410256.3** | Report and present the original results in an orderly way and placing the open questions in the right perspective. | 2 | 2 | 2 |
| **410256.4** | Link techniques and results from literature as well as actual research and future research lines with the research. | 2 | 3 | 2 |
| **410256.5** | Appreciate practical implications and constraints of the specialist subject | 3 | 3 | 3 |

1. **Industry Sponsorship information/certificate**
2. **Stage – I: Project Schedule Semester – I**

|  |  |  |
| --- | --- | --- |
| **Sr.**  **No.** | **Activity Scheduled** | **Date** |
|  | **Registration of Project groups.** | **14-08-2020** |
|  | **Submission of abstracts to project co-coordinator in the prescribed format.** | **14-09-2020** |
|  | **Reporting to respective project guide.** | **18-09-2020** |
|  | **Presentation to finalize Project Title and Problem Definition.** | **15-10-2020** |
|  | **Submission of final abstract to project co-coordinator.** | **19-10-2020** |
|  | **Stage – I Project Evaluation I** | **19-10-2020** |
|  | **Stage – I Project Evaluation II** | **23-03-2021** |
|  | **Stage – I Project Evaluation III** | **25-04-2021** |
|  | **Submission of draft copy of Stage – I Project Report to the guide.** | **27-04-2021** |
|  | **Submission of Stage – I Project Report to the guide** | **27-04-2021** |
|  | **Verification of project work book by Project Co-ordinator and H.O.D.** |  |

1. **Abstract**

Date: 28-04-2021

**Project Title: Interactive Map Application for Real-time Crime Reporting and Alerting**

**Project Abstract and Objective:**

Here we want to create an online crime reporting system software which is well accessible to the general public, and the police department. The traditional public is afraid to lodge a grievance as a result of their full of false worry regarding the department of local government. An online grievance registering system can allay the fears of the general public and can conjointly facilitate within the public serving to the department of local government in catching criminals. This system has been taken as a protective and safety-based application for both public and government interest.

Nowadays, much of the crimes committed were unreported to the authorities. Given the fact, the idea is to develop an online Crime Reporting Application which draws its motivation from the inconvenience of going to the police station and personal belief of the weak investigative capabilities of the authorities to resolve minor crimes and limited spreading of crime information to the community. This project aims to provide an overview of the investigative process and, in doing so, identify effective and efficient approaches to the investigation of crimes. The Crime Reporting System would really help the complainant and the authority to communicate privately and easily with regards to the reported issue. Also, it will help in providing a time-saving, appropriate and scenic explanation of the crime in case of emergencies. In addition, it would be easier for the complainant to report a witnessed crime without the fear of getting involved in the problems because of the security that the only authorized user can see the report. The two major problems in today’s crime scenes are crime reporting and unaware citizens If any crime happens in any area, then crime reporting can be done via telephone or in person. No actual scene reporting system is available till date. Public are not alerted to nearby crimes which they are susceptible to. Alerting will help them prevent themselves from any mishaps. We must focus on creating a system that will clearly describe the scene and also alert the citizens in the vicinity.

**Hardware & Software Required:**

**Reference (Paper): (Attached Copy)**

***Project Members***

**Vrushabh Nikam,**

**Rutuja Shinde,**

**Giwil Gidwani,**

**Saquib Akhtar**

**Continuous Progress and assessment (Reporting Stage I)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Date** | **Activity** | **Suggestion from Guide** | **Activity Status** | **Student’s Signature** | **Guide’s Signature** |
|  | **09-09-2020** | **Requirement gathering** | **Visit Dwarka Circle Traffic Chowki for insight** | **Completed** |  |  |
|  | **14-09-2020** | **Submission of Abstract** | **No correction** | **Completed** |  |  |
|  | **18-09-2020** | **Stage – I Project Evaluation I** | **More research needed** | **Completed** |  |  |
|  | **20-09-2020** | **Minor loopholes resolved** | **No suggestion.** | **Completed** |  |  |
|  | **15-10-2020** | **Stage – I Project Evaluation II** | **Changes in UML diagram**  **Make PPT abstract** | **Completed** |  |  |
|  | **19-10-2020** | **Stage – I Project Evaluation III** | **Add DFD diagram / Activity diagram / Sequence diagram** | **Completed** |  |  |

**Project Progress Report (Stage I)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Date** | **Modules completed** | **Project work completed** | **Name of the student & his/her contribution** | **Sign of the student** | **Sign of Guide, Project coordinator & HOD** |
|  | **09-09-2020** | **Requirement gathering** |  | **Team** |  |  |
|  |
|  |
|  | **14-09-2020** | **Submission of Abstract** |  | **Team** |  |  |
|  |
|  |
|  | **18-09-2020** | **Stage – I Project Evaluation I** |  | **Team** |  |  |
|  |
|  |
|  | **20-09-2020** | **Minor loopholes resolved** |  | **Team** |  |  |
|  |
|  |
|  | **15-10-2020** | **Stage – I Project Evaluation II** |  | **Team** |  |  |
|  |
|  |
|  | **19-10-2020** | **Stage – I Project Evaluation III** |  | **Team** |  |  |
|  |
|  |

1. **Project Work discussion details (if any)**
2. **Stage I - Project Evaluation (I, II, III)**

**Project Stage - I *Evaluation I***

**Date:** 28/04/2021 **Group No.: 05**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title: Interactive Map Application for Real-time Crime Reporting** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** | **B03** | **Saquib Akhtar** |
| **2** | **A24** | **Giwil Gidwani** |
| **3** | **B50** | **Vrushabh Nikam** | **Guide Name & Signature** | | | |
| **4** | **B46** | **Rutuja Shinde** |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Understanding of Contents (5)** | | |  |  |  |  |
| **Literature Survey (5)** | | |  |  |  |  |
| **Mathematical Modeling (5)** | | |  |  |  |  |
| **Presentation Skill (5)** | | |  |  |  |  |
| **Question and Answer (15)** | | |  |  |  |  |
| **Overall Progress (15)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

**Project Stage - I *Evaluation II***

**Date:** 28/04/2021 **Group No.: 05**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title: Interactive Map Application for Real-time Crime Reporting** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** | **B03** | **Saquib Akhtar** |
| **2** | **A24** | **Giwil Gidwani** |
| **3** | **B50** | **Vrushabh Nikam** | **Guide Name & Signature** | | | |
| **4** | **B46** | **Rutuja Shinde** |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Understanding of Contents (5)** | | |  |  |  |  |
| **Literature Survey (5)** | | |  |  |  |  |
| **Mathematical Modeling (5)** | | |  |  |  |  |
| **Presentation Skill (5)** | | |  |  |  |  |
| **Question and Answer (15)** | | |  |  |  |  |
| **Overall Progress (15)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

**Project Stage - I *Evaluation III***

**Date:** DD/MM/YYYY **Group No.:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title: Interactive Map Application for Real-time Crime Reporting** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** | **B03** | **Saquib Akhtar** |
| **2** | **A24** | **Giwil Gidwani** |
| **3** | **B50** | **Vrushabh Nikam** | **Guide Name & Signature** | | | |
| **4** | **B46** | **Rutuja Shinde** |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Understanding of Contents (5)** | | |  |  |  |  |
| **Literature Survey (5)** | | |  |  |  |  |
| **Mathematical Modeling (5)** | | |  |  |  |  |
| **Presentation Skill (5)** | | |  |  |  |  |
| **Question and Answer (15)** | | |  |  |  |  |
| **Overall Progress (15)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

1. **Stage – II: Project Schedule Semester – II**

|  |  |  |
| --- | --- | --- |
| **Sr.**  **No.** | **Activity Scheduled** | **Date** |
|  | **Stage II - Project Evaluation I** | **29-06-2021** |
|  | **Stage II - Project Evaluation II** | **06-07-2021** |
|  | **Stage II - Project Evaluation III** | **-** |
|  | **Final Project Demonstration before University Project Exam.** | **02-07-2021** |
|  | **Submission of draft copy of Project Report to guide.** | **07-07-2021** |
|  | **Verification of project work book by Project Coordinator and H.O.D.** |  |
|  | **Final submission of Project Report & Project Work-Book.** |  |

1. **Continuous Progress and assessment (Reporting Stage II)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Date** | **Activity** | **Suggestion/ Correction from Guide** | **Activity Status** | **Student’s Signature** | **Guide’s Signature** |
|  | **08-05-2021** | **Planned the project activity** |  | **Completed** |  |  |
|  | **14-05-2021** | **UI design planned** |  | **Completed** |  |  |
|  | **21-05-2021** | **1st module presented** | **Add confirm password field.**  **Perform validation testing.** | **Completed** |  |  |
|  | **28-05-2021** | **2nd module presented** | **Do not save login credentials in browser** | **Completed** |  |  |
|  | **04-06-2021** | **3rd module presented** | **Add status as “complete” to the report** | **Completed** |  |  |
|  | **25-06-2021** | **Complete project demonstrated** |  | **Completed** |  |  |
|  |  |  |  |  |  |  |

1. **Project Progress Report (Stage II)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Date** | **Modules completed** | **Project work completed** | **Name of the student & his/her contribution** | **Sign of the student** | **Sign of Guide, Project coordinator & HOD** |
|  | **08-05-2021** | **Planned the project activity** |  | **Team** |  |  |
|  |
|  |
|  | **14-05-2021** | **UI design planned** |  | **Team** |  |  |
|  |
|  |
|  | **21-05-2021** | **1st module presented** |  | **Team** |  |  |
|  |
|  |
|  | **28-05-2021** | **2nd module presented** |  | **Team** |  |  |
|  |
|  |
|  | **04-06-2021** | **3rd module presented** |  | **Team** |  |  |
|  |
|  |
|  | **25-06-2021** | **Complete project demonstrated** |  | **Team** |  |  |
|  |
|  |

1. **Project Work discussion details (if any)**

**Stage II - Project Evaluation**

**Project Stage - II *Evaluation I***

**Date:** 29/06/2021 **Group No.: 05**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title:** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** | **15** | **Saquib Akhtar** |
| **2** | **25** | **Giwil Gidwani** |
| **3** | **18** | **Vrushabh Nikam** | **Guide Name & Signature** | | | |
| **4** | **23** | **Rutuja Shinde** |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Implementation of Project+ (10)** | | |  |  |  |  |
| **Testing Methodology & Cases (05)** | | |  |  |  |  |
| **Tools, Softwares and FOSS used (05)** | | |  |  |  |  |
| **Results / Outcomes (10)** | | |  |  |  |  |
| **Presentation / Demonstration Skill (05)** | | |  |  |  |  |
| **Question and Answer (05)** | | |  |  |  |  |
| **Overall Progress (Publication\*, Competition) (10)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

**+ Month 1 - 40%, Month 2 - 70%, Month 3 - 100% \* 1-3 marks - Impact Factor<2 , 4-5 marks - Impact Factor >2**

**Project Stage - II *Evaluation II***

**Date:** 06/07/2021 **Group No.: 05**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title:** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** | **15** | **Saquib Akhtar** |
| **2** | **25** | **Giwil Gidwani** |
| **3** | **18** | **Vrushabh Nikam** | **Guide Name & Signature** | | | |
| **4** | **23** | **Rutuja Shinde** |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Implementation of Project+ (10)** | | |  |  |  |  |
| **Testing Methodology & Cases (05)** | | |  |  |  |  |
| **Tools, Softwares and FOSS used (05)** | | |  |  |  |  |
| **Results / Outcomes (10)** | | |  |  |  |  |
| **Presentation / Demonstration Skill (05)** | | |  |  |  |  |
| **Question and Answer (05)** | | |  |  |  |  |
| **Overall Progress (Publication\*, Competition) (10)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

**+ Month 1 - 40%, Month 2 - 70%, Month 3 - 100% \* 1-3 marks - Impact Factor<2 , 4-5 marks - Impact Factor >2**

**Project Stage - II *Evaluation III***

**Date:** DD/MM/YYYY **Group No.:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title:** | | | | | | |
| **Sr. No.** | **Roll No.** | **Name of Project Member** | **Supervisor Name & Signature** | | | |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  | **Guide Name & Signature** | | | |
| **4** |  |  |
| **Project Member Performance:** | | | | | | |
| **Parameters** | | | **Roll No.** | | | |
|  |  |  |  |
| **Implementation of Project+ (10)** | | |  |  |  |  |
| **Testing Methodology & Cases (05)** | | |  |  |  |  |
| **Tools, Softwares and FOSS used (05)** | | |  |  |  |  |
| **Results / Outcomes (10)** | | |  |  |  |  |
| **Presentation / Demonstration Skill (05)** | | |  |  |  |  |
| **Question and Answer (05)** | | |  |  |  |  |
| **Overall Progress (Publication\*, Competition) (10)** | | |  |  |  |  |
| **Total Marks (50)** | | |  |  |  |  |
| **Remarks point-wise:** | | | | | | |

**+ Month 1 - 40%, Month 2 - 70%, Month 3 - 100% \* 1-3 marks - Impact Factor <2, 4-5 marks - Impact Factor >2**

1. **Project Completion Certificate (for Sponsored project)**
2. **Project Competition /Copy right and Patent details if any**

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| **Sr.**  **No.** | **Name & Place of project competition/ Copy rights/Patents** | **Date** | **Certificate/Prizes won (if any)** |
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**[Attach Xerox copy of certificate/s, other details]**

1. **Papers Publication**

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| --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of the Publication** | **Date** | **Certificate/Prizes won (if any)** |
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**[Attach Xerox copy of certificate/s]**

1. **Expert Feedback Stage I & II (if any)**

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