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| https://lh3.googleusercontent.com/KfQQNVvbBoiwdGDQLnBv7fuYYOlIxmuNse6hxIp7yQH90FSw16KwWHyrwZjY1ERazE6j7ybJf1jU8x26Bg2XwycW7XqPP6-m61iqVirs8NkfSflSnzznpXbPjI4ZCaZ9JN3mOMxEr6M6mZ8zEA | **SOMAIYA**  **V I D Y A V I H A R**  **K J Somaiya Institute of Engineering and Information Technology**  **An Autonomous Institute Affiliated to the University of Mumbai** |

**Academic Year 2022-23**

**DEPARTMENT OF Computer Engineering**

**Minor Project Log-Book**

**Course Code-CEPR53**

**Course Name-Project Based Learning: Minor Project Lab-I**

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| --- | --- | --- |
| **Roll No** | **Name of Student** | **Signature of Student** |
| 5 | Kapil Sunil Bhatia |  |
| 10 | Palak Piyush Desai |  |
| 24 | Devanshi Ketan Joshi |  |
| 31 | Dakshita Sanjay Kolte |  |

Name of Project- KJSIT’s STUDENT ACHIEVEMENT PORTAL AND OPTICAL CHARACTER RECOGNITION

Name of Guide- Dr. Jyoti Wadmare

**PBL Outcomes**

At the end of the course, the student will be able to:

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| --- | --- |
| **Sr. No** | **PBL Outcomes** |
| **1** | Identify societal/research/innovation/entrepreneurship problems through appropriate literature survey. |
| **2** | Identify methodology for solving above problems and apply engineering knowledge to solve and validate the result using test cases /benchmark data/theoretical/inferences/ experiments/ simulations. |
| **3** | Use standard norms of engineering practices and project management principals to analyze and evaluate the impact of solution/product/research/innovation/entrepreneurship towards societal/environmental/sustainable development. |
| **4** | Communicate through technical report writing and oral presentation. |
| **5** | Gain technical competency towards participation in competitions, hackathons, etc. |
| **6** | Demonstrate capabilities of self-learning in a group, which leads to lifelong learning to develop interpersonal skill to work as a member of a group or as a leader. |

**Continuous Assessment**

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| --- | --- |
| **Distribution of Term work marks for both semesters shall be as below:** | **Practical Marks** |
| Marks awarded by guide/ supervisor based on implementation | **10** |
| Marks awarded by review committee | **10** |
| Quality of Project report | **05** |

**Guidelines for Minor Project**

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| --- | --- |
| **Sr. No** | **Guidelines** |
| **1** | Minor project may be carried out in one or more form of following: Product preparations, prototype development model, fabrication of set-ups, laboratory experiment development, process modification/development, simulation, software development, integration of software (frontend-backend) and hardware, statistical data analysis, creating awareness in society/environment etc. |
| **2** | Students shall form a group of 3 students, as it is a group activity. |
| **3** | Students should do survey and identify needs, which shall be converted into problem statement for minor project in consultation with faculty supervisor/head of department/internal committee of faculties. |
| **4** | Students shall submit implementation plan in the form of Gantt/PERT/CPM chart, which will cover weekly activity of minor project. |
| **5** | The work may result in research/white paper/ article/blog writing and publication and also the work may result in business plan for entrepreneurship product created. The work may result in patent filing. |
| **6** | Faculty supervisor may give inputs to students during minor project activity; however, focus shall be on self-learning. |
| **7** | Students in a group shall understand problem effectively, propose multiple solution and select best possible solution in consultation with guide/ supervisor. |
| **8** | Students shall convert the best solution into working model using various components of their domain areas and demonstrate. |
| **9** | The solution to be validated with proper justification and report to be compiled in standard Format. Software requirement specifications (SRS) documents, research papers, competition certificates may be submitted as part of annexure to the report. |
| **10** | With the focus on the self-learning, innovation, addressing societal problems and entrepreneurship quality development within the students through the Minor Projects, it is preferable that a single project of appropriate level and quality to be carried out in two semesters by all the groups of the students. i.e. Minor Project 1 & 2 in semesters V and VI. |
| **11** | However, based on the individual students or group capability, with the mentor’s recommendations, if the proposed Minor Project adhering to the qualitative aspects mentioned above gets completed in odd semester, then that group can be allowed to work on the extension of the Minor Project with suitable improvements/modifications or a completely new project idea in even semester. This policy can be adopted on case by case basis. |

**Assessment Index Sheet**

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| --- | --- | --- |
| **Week No.** | **Detailed Explanation** | **Signature of guide with date** |
| **Week 1** | Our team engaged in a topic discussion with the project guide during which we clearly defined our project's objectives and established the project's boundaries. Following this discussion, we developed a comprehensive project plan that includes specific timelines and milestones. |  |
| **Week 2** | In the second week, we commenced the process of gathering information related to the portal. Our objective was to identify the requirements that would facilitate the design of the portal and streamline the student achievement process. |  |
| **Week 3** | We put together the portal's architecture. We design the structure of the database, create mockups of what the portal will look like, and outline the system's framework. It's important to make sure our design aligns perfectly with the collected requirements and map out the project's workflow. |  |
| **Week 4** | We have initiated the implementation process, starting with one module that incorporates Python and its libraries, including Pandas, NumPy, SpaCy, and Pytesseract, for the purpose of text extraction from images. |  |
| **Week 5** | Continuing with the same module, we have extended our implementation to include the step of importing the extracted data into a CSV file. After extracting text from images, we now store this data in a CSV format for further processing and retrieval. |  |
| **Week No.** | **Detailed Explanation** | **Signature of guide with date** |
| **Week 6** | We had a discussion with our project guide, during which we received feedback and suggestions for improvement. Following this discussion, we promptly implemented the recommended changes to enhance the project. |  |
| **Week 7** | We have initiated work on the second module, which involves the design of the web portal's frontend. This phase of development leverages technologies such as HTML, CSS, JavaScript, and Bootstrap to create a user-friendly and visually appealing interface for the portal. |  |
| **Week 8** | We have commenced work on the backend component of the portal, which involves the utilization of PHP and MySQL. This backend development is focused on securely storing login and signup data in the database to enable effective user tracking and management. |  |
| **Week 9** | We have implemented changes in the frontend design to align with the recommendations provided by our project guide. These adjustments have been applied to both the admin and student interfaces of the portal to ensure that the user experience meets the desired standards and functionality. |  |
| **Week 10** | The integration of both the frontend and backend components of the portal has been completed. Additionally, any necessary adjustments and updates have been made to ensure the seamless operation of the portal, with a focus on user experience and functionality. |  |
| **Week No.** | **Detailed Explanation** | **Signature of guide with date** |
| **Week 11** | The final module of the project involves the integration of module one and two, bringing together the Python files with the website. In addition, this phase includes the incorporation of features such as the PDF to JPEG converter. This integration enhances the portal's capabilities and ensures a seamless experience for users. |  |
| **Week 12** | We have completed testing to verify the correct functionality of all aspects of the project. Any identified issues or areas for improvement have been addressed based on the guidance and recommendations provided by our project guide. This quality assurance phase ensures that the project operates smoothly and aligns with the project's objectives. |  |