**Weekly Progress Report (WPR)**

**Amity School of Engineering & Technology**

B.Tech (CSE) VII Semester

WPR 1 Duration: 13/05/2025 to 19/05/2025

Students Weekly Progress Report (WPR) for Odd Semester of session 2025-2026

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| **To be filled by Students** |  |
| Students Name | Yati |
| Roll no. | 2330 |
| Enrollment no. | A2305222330 |
| Project Title finalized, if Yes, give name, if NO, give reason | DIA-CoE Projects DARPAN |
| Synopsis submitted | This project delivers a full-featured web platform for managing research projects at DIA-CoE DRDO SSPL. It simplifies the process of handling project records while enforcing strict validation to ensure data reliability. Key features include a fast search system, options to export data, and detailed activity tracking for each user. By clearly separating administrative and viewer roles, the platform promotes secure and organized access to project data, ultimately improving operational transparency and efficiency within the organization. |
| Literature review | Explored key technologies such as Flask for backend development, SQLAlchemy for database interactions, and Bootstrap for the frontend. In addition, we reviewed similar research management systems to identify best practices in validation, user roles, and activity logging. |
| Technical & Economical Feasibility | The project is technically feasible with the help of open-source tools and libraries. From a cost perspective, it's highly economical—there’s no need for any proprietary software or hardware. |
| Bill of Material | 0 |
| Project Progress Schedule (PERT Chart) | Requirement Gathering, System Design, User Authentication & Roles |
| Design of critical components | - |
| Fabrication work (give %) | - |
| Experimental work (give %) | - |
| Result and Analysis | Initial phases of the project are successfully completed. Requirements were clearly defined, leading to a solid system design using Flask and Bootstrap. User authentication with role-based access is in place, and field validation through Flask-WTF ensures data integrity. These completed steps confirm a strong and secure foundation for the next stages. |
| Report writing | - |
| Signature of students | Yati |

Work done in this week :

* Completed and submitted the project synopsis, clearly defining goals, key features, and access roles.
* Carried out a literature review on technologies like Flask, SQLAlchemy, and Bootstrap, along with a study of similar project management platforms.
* Chose Flask for backend development and Bootstrap for designing a responsive and user-friendly interface.
* Designed the overall system architecture to guide the development process efficiently.
* Implemented secure user authentication with role-based permissions for administrators and viewers.
* Set up form validations using Flask-WTF to maintain accuracy and reliability of user inputs.
* Assessed the project’s technical and economic viability, confirming that it can be built using cost-effective, open-source tools.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

Date:

19-05-2025