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

To be filled by Students	
Students Name	Aaron Johnson Thomas
Roll no.	2314
Enrollment no.	A2305222314
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	We've 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	Aaron Johnson Thomas

Work done in this week :

- Prepared and submitted a detailed project synopsis highlighting core objectives, main features, and role-specific access flows.
- Carried out a literature survey to explore existing solutions and assess applicable technologies for the system.
- Chose Flask for the backend and Bootstrap for creating a clean, responsive user interface.
- Designed the initial system architecture to support scalable, modular development.
- Built and tested a secure login system with role-based user access control (admin and viewer).
- Added input validation using Flask-WTF to maintain form accuracy and data consistency.
- Evaluated the project's feasibility from both technical and cost perspectives, ensuring it could be built using open-source tools and low-cost deployment options.

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