Final Year Project II

Course # COMP 4812

Credits 5

Pre-requisites and Co-requisites: Final Year Project I

Course Description

Final Year Project II is a core, capstone course that offers immersive experience in research and development for students specializing in computer science. Final Year Project II is a continuation of the work initiated in Final Year Project I. In this capstone course, students further refine the research questions, methodologies, and prototypes developed during the first phase, advancing toward a fully realized solution or comprehensive set of findings. Through targeted experimentation, systematic testing, and iterative improvements, they enhance their analytical skills and deepen their project management capabilities. Collaboration with faculty, ensuring professional guidance throughout the research process. By the end of Final Year Project II, students will produce a comprehensive final report and present their results to a review committee, demonstrating mastery of the technical, methodological, and professional competencies acquired throughout their studies.

Course Learning Outcomes

Upon completion of the course, students will be able to:

- Integrate advanced theoretical knowledge and research outcomes into the design and development of a functional solution or system.
- Employ rigorous research methodologies and tools to address complex problems, ensuring the reliability and validity of project outcomes.
- Manage the project's timeline, resources, and deliverables by applying professional standards and best practices for efficient execution.
- Evaluate the functionality, performance, and security aspects of the developed solution or system, ensuring it meets specified requirements.
- Document project processes and findings in a clear, concise, and technically accurate manner suitable for academic and professional audiences.
- Present and defend project results through well-structured written reports, oral presentations, and demonstrations, showcasing both depth of knowledge and communication skills.
- Reflect on the research journey by identifying lessons learned, potential improvements, and opportunities for future investigation or development.

Course Assessments and Evaluation

Items	Weight

Innovation and /or App/Software/Hardware fully deployed and maintained	10%
Application of the product/Usage by a community	10%
Final Report	30%
Final Presentation	20%
Project Demonstration	20%