

PROJECT GUIDELINES

Objective of Project: The course project is intended to expose students to research-oriented problem solving in modern control systems. Students will select an engineering systems (no toy or text examples), conduct a literature review, identify an open control challenge, develop a theoretically rational solution, validate it through mathematical analysis and simulations (or experiments where applicable), and present the work in the form of journal-style report.

Kindly note the following instructions related to the class project.

1. Students may work individually or in teams of up to four members. Score is awarded to the group.
2. The deadline for submitting the project proposal is **15 August 2026**. Each team must submit its proposed project through the following form before the deadline:

<https://forms.gle/DCJBhiTbBMJoqf989>

3. You are encouraged to propose any project at the interface of control engineering and its applications. The proposed topic will be evaluated for its technical depth, novelty, and suitability for the course. If the proposed problem does not meet the expected standards, appropriate modifications or an alternative problem statement will be suggested. A list of sample project topics will also be provided for students who wish to choose from predefined problems.
4. Hardware-based projects are welcomed. A nominal budget may be provided for approved projects. Teams intending to undertake hardware implementation must discuss the required components with the instructor and submit a detailed Bill of Materials (BoM) by **20 August 2026**.
5. In case multiple teams propose substantially similar ideas, priority will be given to the team that submits the proposal first. Other teams will be required to modify or change their project topic.
6. Each project will consist of: Three progress presentations and One final journal-style technical report
7. The project will be evaluated holistically based on all project components, including technical depth, presentations, technical progress, and the final report.
8. First presentation will be on **29 August 2026, Saturday**, the Second presentation will be on **03 October 2026, Saturday** and the third presentation will be on **31 October 2026, Saturday**. Instructions regarding the presentation will be circulated later.
9. The report for the class project should be submitted on or before **13 November 2026**. Instructions regarding the report will be circulated later.
- 10. Academic Integrity: All submitted work must be original. Proper citation of all references, software libraries, datasets, and AI-assisted tools is mandatory. Plagiarism, fabrication of results, or unauthorized collaboration will be treated as academic misconduct in accordance with Institute regulations.**
11. Once the team is formed, and if you are part of the team, you will not be allowed to drop the course.
12. If you need any clarity in the instructions or any further information, please let me know as soon as possible.