

Robotics Systems

Project

EE198

5 ECTS Credits

Module Name	Robotics Systems Project
Module Code	EE198SS
Module Co-ordinator	Refer to Excel document <i>Module_Co-ordinators</i>
Department	Electronic Engineering
Credit rating	5 ETCS credits
Pre-requisites	None

Aims	<ul style="list-style-type: none"> • To introduce project based learning. • To introduce students to structured engineering design. • To instill the creative spirit in students. • To develop oral and written communication skills • To develop students experience of working in a group • To engender an awareness of ethical and health & safety issues in engineering
Learning Outcomes	<p>At the end of this module a student should be able to:</p> <ol style="list-style-type: none"> 1. Apply project-based learning to solve unforeseen problems. 2. Apply structured design to a range of problems. 3. Apply theoretical knowledge in solving problems encountered. 4. Discuss any ethical issues, environmental impacts and health and safety issues associated with their project. 5. Write a technical report. 6. Prepare and deliver an oral presentation. 7. Defend their work through interview. 8. Demonstrate appropriate management techniques in the execution of their project (including time management and project planning)

Time Allowance for Constituent Elements

Workshops	15 hours
Independent study (including meetings, reporting, etc.)	172 hours

Workshop Content

- Workshop 1 – Project & Group work
- Workshop 2 – Engineering design fundamentals, basic project planning & Engineering ethics
- Workshop 3 – Reflection journal writing/video log
- Workshop 4 – Technical report writing
- Workshop 5 – Presentation skills

Assessment Criteria

Interim Report + Group presentation/interview	15%
Final Report + Video Log + Group presentation/interview*	70%
Presentations (Interim and Final)	15%

*One report is submitted per group. However, each member of the group will be graded based on the group report and presentation/interview.

Penalties: Late submission of reports will be subject to a penalty of 10% of the assessment grade for each day (or part thereof) overdue.

Pass Standard and any Special Requirements for Passing Modules: Pass 40% - students are not required to pass the assessment components separately – an overall pass mark of 40% is acceptable.

Supplemental Examination: This module is 100% continually assessed. Hence, there is no repeat Autumn examination, as there is no facility available for repeating the continuous assessment elements of the module. However, students who obtain between 30 – 40% are eligible for supplemental assessment over the summer period. In such instances, the final module grade will be capped at 40%.

Assessment Philosophy

The different modes of assessment employed (reports, presentation and interviews) evaluate learning

outcomes 5 – 7. Learning outcomes 1 – 4 are primarily evaluated in the final report and interview.

The number and scheduling of the assessment procedures are designed to indirectly evaluate learning

outcome 8. Direct assessment of learning outcome 8 also occurs in the interim report through the requirement for a project completion plan and Gantt chart.

Programmes currently utilising module

BSc in Robotics and Intelligent Devices