Module Code	EEU22E10		
Module Name	ENGINEERING DESIGN IV: PROJECT		
ECTS Weighting ¹	10 ECTS		
Semester taught	Semester 2		
Module Coordinator/s	Prof. Harun Silak, Prof. Glenn Strong		
Module Learning Outcomes with reference to the <u>Graduate Attributes</u> and how they are developed in discipline	 On successful completion of this module, students should be able to: Apply the engineering process of problem solving. Design a simple autonomous vehicle to meet a well-defined specification. Clearly demonstrate group working, including task sub-division and integration of individual contributions from the team. Plan a project, meeting all interim deliverables. Implement project tracking and code version control. Apply knowledge of the health and safety requirements of electronic circuit board construction. Recognise issues to be addressed in a combined hardware and software system design. Develop skills in the areas of quantitative analysis, scientific reasoning and communication. Develop practical experimental skills in electronic circuit testing. Develop practical experimental skills in software system testing. Evaluate the outcome of their achievements given theoriginal specification. Demonstrate organised and concise report writing skills. 		

¹ TEP Glossary

Module Content	Design, Im 2. To introdu 3. To introdu safety issu adoption of 4. To introdu user interficed 5. To analyse manufactu 6. To introdu drawings a	basic principles oplement and C uce group work uce the principle of test procedu uce the principle face design and cations; the design and trability and test uce the requirent and software de uce project report ught using a co through project rse, the average d over the seme cudents, as indiv	of science and e operate (CDIO) a ing and project p es of circuit cons with electronic of res; es of software sy control software sy control software sting; ments of project ocumentation; orting and prese mbination of lec t sessions at wh e individual stud ester. 55 of these viduals and as gr	struction and the circuit construction ystems design income re for wireless h respect to documentation, ntation. etures, demonstra- ich advisors are part lent effort should roups, are also exponention in the social componention in the social componention in the social in the social componention in the social componention in the social componential componential componential componential in the social componential component	ehicle; health and on and the cluding circuit ation oresent. d be 200- ontact spected to
Assessment Details ² Please include the following:	Assessment Component	Assessment Description	LO Addressed	% of total	Week due
 Assessment Component Assessment description Learning Outcome(s) addressed % of total 	Continuous Assessment	combination of demos, interviews, tests and	all	100%	Througho ut the

tests and

reports

semester

- % of total •
- Assessment due date •

Reassessment Requirements

Contact Hours and Indicative Student Workload ²	Contact hours: 50
	Independent Study (preparation for course and review of materials): 50
	Independent Study (preparation for assessment, incl. completion of assessment): 150

² TEP Guidelines on Workload and Assessment

Recommended Reading List

Module Pre-requisite

Module Co-requisite

Module Website

Are other Schools/Departments involved in the delivery of this module? If yes, please provide details.

Module Approval Date

Approved by

Academic Start Year

Academic Year of Date