

Project

Module Code:	ENG6001-C
Academic Year:	2018-19
Credit Rating:	30
School:	Department of Mechanical and Energy Systems Engineering
Subject Area:	Engineering
FHEQ Level:	FHEQ Level 6
Module Leader:	Dr Jose Munive Hernandez

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	3
Tutorials	12
Laboratory	50
Directed Study	235

Availability Periods

Occurrence	Location/Period
IPA	INTI International College, Penang / Semester 1 (Sep - Jan)
IPA	INTI International College, Penang / Semester 2 (Feb - May)
IPA	INTI International College, Penang / Semester 3 (June - Oct)
IIA	INTI International University / Academic Year (Sept - May)
INA	INTI International University, Nilai / Semester 1 (Sep - Jan)
INA	INTI International University, Nilai / Semester 2 (Feb - May)
INA	INTI International University, Nilai / Semester 3 (June - Oct)
MSA	Management Development Institute of Singapore (MDIS) / Academic

NLA	Namal College / Academic Year (Sept - May)
BDA	University of Bradford / Academic Year (Sept - May)
BDB	University of Bradford / Academic Year (Sept - May)

Module Aims

The students will be able to develop initiative, innovation and creative skills through an extended student-centred study in the practice of engineering, technology and management at professional level, involving research, integration, application, evaluation and synthesis of knowledge gained across a range of several subject areas.

Outline Syllabus

It is not possible to be prescriptive about the activities that each student should undertake in each semester as this relates to the specific investigation being undertaken. The project may take a variety of forms, and may include:

1. Critical reference to previous work on the project topic, competing theories, processes and methodologies, economic, social and market considerations.
2. Analysis and modelling, which may involve computing.
3. System and organisation design.
4. Implementation/Manufacture.
5. Experimentation, verification and/or other testing and evaluation.
6. Interpretation of results and concluding.

The balance of the elements above will depend on the type of project work undertaken. In particular, students undertaking this module as part of an MEng degree will produce an extended set of 'recommendations for further work' which will constitute the specification for their studies in the Stage 4 project module ENG4010J.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 demonstrate the application of a sound theoretical approach to solve a carefully defined engineering, technology and/or management research matter using new and advancing technology and methodologies.
- 2 apply complex scientific and engineering/technological/managerial/organisational principles to the solution of a significant open-ended problem.
- 3
 - a) enhance your skills in data management; data presentation; scientific method; data interpretation; IT skills; systematic problem solving; creative problem solving; communication; teamwork & leadership; life long learning; and personal management.
 - b) Undertake an audit and discuss ethical, sustainability and safety issues; discuss ethical dilemmas in engineering; discuss the wider impact of engineering design decisions; justify an ethical stance; advise on safe, ethical and sustainable practices in production, deployment and disposal

Learning, Teaching and Assessment Strategy

Research/experiment/theory and/or analysis/simulation with verification and/or validation explored in formal tutorials with project supervisor. Practical skills, where appropriate,

developed in laboratory sessions. Cognitive and personal skills developed in solving and/or design exercises supported by members of academic and technical staff. Oral feedback is given during tutorial sessions with project supervisor. Presentation assessment will examine the application of practical skills to the knowledge base of the module. The formal assessment will examine the wider learning outcomes expressed in the descriptor.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - oral/viva voce	Poster presentation	30 minutes	20%	Yes
Referral	Examination - oral/viva voce	Poster presentation	30 minutes	20%	No
Summative	Coursework	Final Year Project report	6000 words	70%	No
Summative	Coursework	Interim progress report	1000 words	10%	No
Referral	Coursework	Final Year Project report	6000 words	80%	No

Legacy Code (if applicable)

ENG3042J

Reading List

To view Reading List, please go to [rebus:list](#).