



Title:	Project - Initial Research	APPROVED
Long Title:	Project - Initial Research	
Module Code:	MANU8005	Duration: 1 Semester
Credits:	5	
NFQ Level:	Advanced	
Field of Study:	Manufacturing Engineering	
Valid From:	Semester 1 - 2016/17 (September 2016)	
Module Delivered in	4 programme(s)	
Module Coordinator:	GER KELLY	
Module Author:	GER KELLY	
Module Description:	This module requires the learner to develop research, problem analysis and project planning skills. The project is undertaken from an approved outline brief of a project title and outline objectives. The learner develops the knowledge, know-how and skills, and competences required to successfully research, develop, scope the project and present an implementation plan. The learner is expected to work under direction of a project supervisor and to communicate the process and outcomes of their work in a style and manner appropriate for professional practitioners in their discipline.	
Learning Outcomes		
<i>On successful completion of this module the learner will be able to:</i>		
LO1	Undertake a review of relevant and appropriate literature to determine current knowledge in the project area.	
LO2	Utilising professional skills developed throughout the curriculum, outline a number of viable methodologies to address the identified project area .	
LO3	Select the most likely methodology by exercising professional judgement in evaluating potential courses of actions against appropriate design, safety, commercial and ethical criteria.	
LO4	Develop a project plan to implement the proposed methodology.	
LO5	Demonstrate the appropriate written /oral communication skills required of the professional practitioner.	
Pre-requisite learning		
Incompatible Modules		
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.</i>		
No incompatible modules listed		
Co-requisite Modules		
10887		New Technological Venture Deve
Requirements		
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.</i>		
No requirements listed		
Co-requisites		
No Co Requisites listed		

Module Content & Assessment

Indicative Content

Literature Survey

Gathering, critically analysing and referencing research and other appropriate literature.

Core Problem

Identifying and formulating the core research question.

Development of Methodology

Formulate and assess viable methodologies to address the identified research question with a view to identifying the most appropriate methodology.

Written Report

Writing a professional report in a manner appropriate to the discipline.

Oral Presentation

making an oral presentation of the project plan.

Assessment Breakdown

	%
Course Work	100.00%

Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Presentation	Determine if learner has engaged with objectives	1,2,5	10.0	Week 5
Presentation	Progress to date, methodology chosen and project plan	2,3,4,5	10.0	Week 12
Other	Mark associated with initiative, decision making and application	1,2,3,4,5	30.0	Sem End
Written Report	Comprehensive professional report	1,2,3,4,5	50.0	Sem End

No End of Module Formal Examination

Reassessment Requirement

Coursework Only

This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

The institute reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Independent & Directed Learning (Non-contact)	interaction with project supervisor	1.67	Every Week	1.67
Independent & Directed Learning (Non-contact)	Research,problem analysis and project planning	5.0	Every Week	5.00
Lecturer-Supervised Learning (Contact)	No Description	0.33	Every Week	0.33
Total Hours				7.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				0.33

This module has no Part Time workload.

Module Resources

Recommended Book Resources

- **Bryan Greetham 2014, *How to Write your Undergraduate Dissertation*, 2nd Ed., Palgrave Macmillan [ISBN: 113738976]**

Supplementary Book Resources

- **Stella Cottrell 2011, *Critical Thinking Skills: Developing Effective Analysis and Argument*, 2nd Ed., Palgrave Macmillan [ISBN: 0230285295]**

This module does not have any article/paper resources

This module does not have any other resources

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_EAMTE_8	<u>Bachelor of Engineering (Honours) in Advanced Manufacturing Technology</u>	1	Mandatory
CR_EBENS_8	<u>Bachelor of Engineering (Honours) in Building Energy Systems</u>	7	Mandatory
CR_EPTE_8	<u>Bachelor of Engineering (Honours) in Process Plant Technology</u>	1	Mandatory
CR_ESENT_8	<u>Bachelor of Engineering (Honours) in Sustainable Energy Engineering</u>	7	Mandatory