

<b>Full Title</b>	Project Management (Apprenticeship)		
<b>Status</b>	Uploaded to Banner	<b>Start Term</b>	2017
<b>NFQ Level</b>	07	<b>ECTS Credits</b>	05
<b>Module Code</b>	ENGI07063	<b>Duration</b>	Stage - (26 Weeks)
<b>Grading Mode</b>		<b>Department</b>	Mechanical & Industrial Eng
<b>Module Author</b>	Patrick Delassus		
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### Module Description

This module prepares the student for project management in industry, e.g. Managing the building of a dwelling, managing the design of a product. The student will be introduced to tools and methodologies of project management and through four projects/case studies will become proficient in the application of project management methodologies and tools to their specific discipline, e.g. software development, product design etc.

### Learning Outcomes

**On completion of this module the learner will/should be able to:**

1. Apply the principles and methodologies of project management to their specialist discipline.
2. Use project management techniques and systems in their specialist discipline.
3. Perform a literature search for information on projects.
4. Apply quality management principles to project management approaches.
5. Deal with the complexities of team based management.
6. Demonstrate ability to structure project or job tasks, schedule and manage.
7. Apply engineering techniques to real problems in industry or laboratory settings.
8. Report on project work in written format.

### Indicative Syllabus

Project management tools and methodologies

- Introduction to project management
- Tasks, Resources, teams
- Scheduling, Gantt Charts, Network techniques
- Managing workloads, Project costs, Task constraints
- Critical path analysis

Introduction to Project management software

- MS Project basics, project tasks, task relationships
- Outlining the project, managing resources
- Changing working time, scheduling resources
- Managing resource workloads
- Critical Path

**Managing Project Teams**

- Team-working, theories of team composition, group dynamics, problem solving skills, leading people, decision making techniques
- People management issues in project environment
- Team-working activities

**Literature review**

- Computer databases such as Engineering village, Compendex, etc.
- Worldwide web.
- Library cataloguing system.
- Acquisition through inter-library loans of technical references (books, articles, journals, extracts).

Project management will be made specific to the skills and discipline of the student by applying discipline specific case studies, projects and examples.

**Teaching and Learning Strategy**

During the GMIT block, the module requires 2 hours theory and 1 hour practical/laboratory work in a computer laboratory. In addition during the Industry block, the student will get support from the lecturer to consolidate his experiential learning and the use of project management for the industry project.

**Assessment Strategy**

Project Management is a "Type 3" apprenticeship module. It is 25% assessed during the Academic Block. Another 25% of the marks are for work done in the Industry Block. The Industry Block assessment is integrated with the Technical Project (looking at the Project Management aspects). A further 50% of the marks are for an "exam-format" assessment that takes place towards the end of the Industry Block. This "exam-format" assessment, includes questions which are based on learning gained in the workplace. For example, questions may refer to learning gained through the Technical Project. Students are asked to refer to examples of theory, tools and techniques used in their own company.

The assessment strategy of this module will be a combination of:

- in class/lab assessments such as tutorial sheets or online quizzes,
- exam type assessments.
- Industry project

The in class/lab assessments will represent 30% of the module. They will then have an industry project for 20% to recognise the transfer of acquisition of competences to the workplace. Finally, they will have an exam-type assessment at the end of the industry module worth 50%. This assessment will be at the end of the industry module (end of stage) to encompass the experiential learning acquired in the workplace.

**Repeat Assessment Strategies**

Students will be given the opportunity to take a repeat examination.

<b>Indicative Coursework and Continuous Assessment:</b>		<b>50 %</b>		
<b>Form</b>	<b>Title</b>	<b>Percent</b>	<b>Week (Indicative)</b>	<b>Learning Outcomes</b>
Assessment	Project 4 Project on project management in applied to their specific course	30 %	OnGoing	1,2,3,4
Project	Industry Project	20 %	OnGoing	3,4,5,6,7,8

<b>End of Semester / Year Formal Exam:</b>		<b>50 %</b>		
<b>Form</b>	<b>Title</b>	<b>Percent</b>	<b>Week (Indicative)</b>	<b>Learning Outcomes</b>
Closed Book Exam	Exam	50 %	End of Term	1,2,3,4

<b>Full Time Delivery Mode Average Weekly Workload:</b>			<b>3.05 Hours</b>		
<b>Type</b>	<b>Description</b>	<b>Location</b>	<b>Hours</b>	<b>Frequency</b>	<b>Weekly Avg</b>
Lecture	Lecture	Tiered Classroom	1	Weekly	1.00
		Engineering			

Practical	Laboratory	Laboratory	2	Weekly	2.00
Supervision	Industry project support	Not Specified	0.05	Weekly	0.05

<b>Part Time Delivery Mode Average Weekly Workload:</b>			<b>1.50 Hours</b>		
<b>Type</b>	<b>Description</b>	<b>Location</b>	<b>Hours</b>	<b>Frequency</b>	<b>Weekly Avg</b>
Lecture	Lecture	Not Specified	0.5	Weekly	0.50
Practical	Practical	Engineering Laboratory	1	Weekly	1.00

#### Literary Resources

1. Advanced project management : best practices on implementation, Harold Kerzner, [Hoboken ; Great Britain] : John Wiley, [2004], ISBN: 978-0-471-47284-1
2. The handbook of project management : a practical guide to effective policies and procedures / Trevor L. Young, London ; Dover : Kogan Page, [2007], ISBN: 978-0749449841
3. Practical project management : tips, tactics, and tools, Harvey A. Levine, [New York] : Wiley, [2002], ISBN: 978-0-471-20303-2
4. Project management : a systems approach to planning, scheduling, and controlling / Harold Kerzner, [Hoboken ; Chichester] : Wiley, [2013], ISBN: 978-1-118-02227-6
5. Specific project management texts relative to the students discipline, e.g. new product introduction, software development, product design.

#### Other Resources

None

#### Additional Information

None

#### Programme Membership

GA\_EMAJG\_B07 201900 Bachelor of Engineering in Manufacturing Engineering (Apprenticeship)  
GA\_EMAPG\_B07 201900 Bachelor of Engineering in Manufacturing Engineering (Apprenticeship)