Module Description

The student will be introduced to the standards, tools, methodologies and techniques of project management. The student will complete a minor group project to an international standard.

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. Apply project management techniques and systems in their specialist discipline.
3. Recognise the complexities of team based management.
4. Structure project or job tasks, schedule and manage.
5. Apply engineering and project management techniques to real problems in industry or laboratory settings.
6. Combine various aspects of the course in a practical context through preparing and delivering presentations/reports on the specification/scopes, planning and implementing of a project.

Indicative Syllabus

Review of International Standards for Project management
Project Management Institute PMI standards

Project Management Theory

- Why Project Management
- Strategy, Structure and Culture
- Project Selection and Portfolio Management
- Leadership and the Project Manager
- Scope management
- Team Building, Conflict and Negotiating
- Risk Management
- Cost Estimation and Budgeting
- Project Scheduling
- Resource management
- Project Evaluation and Control
- Project Close Out and Termination

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
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

Teaching and Learning Strategy

This Module is delivered online. Students will learn through project based learning. The first project being a group project conducted throughout the module where the second one will be the application of the learning acquired to their industry based project (included in the Industry Module 2) . Key elements of the learning will highlighted through multiple choice quizzes.

Assessment Strategy

The module is assessed as follow; 50% of the overall mark is assigned to continuous assessment taking place during the module delivery. Students will complete a group project as well as online quizzes. The other 50% relates to the application of project management to the project conducted in the Industry module, starting with a project plan that students will submit before the end of term, get feedback on, and resubmit at the end of term. Then, students will be expected to implement the tools techniques and methodologies of project management to their Industry project and their final assessment will be a reflection on how effective their implementation has been.

Repeat Assessment Strategies

Students cannot repeat the group project element but will be given an opportunity to resubmit all other assessments.

Indicative Coursework and Continuous Assessment:

<table>
<thead>
<tr>
<th>Form</th>
<th>Title</th>
<th>Percent</th>
<th>Week (Indicative)</th>
<th>Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Project</td>
<td>Project Group Project</td>
<td>30 %</td>
<td>OnGoing</td>
<td>1,2,3,4,5,6</td>
</tr>
<tr>
<td>Individual Project</td>
<td>Reflection on Implementation</td>
<td>30 %</td>
<td>End of Term</td>
<td>1,2,4,5,6</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Class Assessment</td>
<td>20 %</td>
<td>OnGoing</td>
<td>1,2,3,4,5,6</td>
</tr>
<tr>
<td>Written Report</td>
<td>Project Plan</td>
<td>20 %</td>
<td>End of Term</td>
<td>4,6</td>
</tr>
</tbody>
</table>

Blended Delivery Mode Average Weekly Workload:

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Location</th>
<th>Hours</th>
<th>Frequency</th>
<th>Weekly Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Learning</td>
<td>Online Delivery</td>
<td>Not Specified</td>
<td>2</td>
<td>Weekly</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Recommended Reading Book List


Journal Resources

- [https://www.pmi.org/](https://www.pmi.org/)

Online Resources

- [https://www.pmi.org/](https://www.pmi.org/)
<table>
<thead>
<tr>
<th>Other Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturers Moodle Page</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme Membership</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA_EAURG_B07 202000 Bachelor of Engineering in Automation &amp; Robotics</td>
</tr>
<tr>
<td>GA_EAURG_C06 202000 Higher Certificate in Engineering in Automation &amp; Robotics</td>
</tr>
</tbody>
</table>