<table>
<thead>
<tr>
<th>Subject Code</th>
<th>ENG4001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Title</td>
<td>Project Management</td>
</tr>
<tr>
<td>Credit Value</td>
<td>3</td>
</tr>
<tr>
<td>Level</td>
<td>4</td>
</tr>
<tr>
<td>Pre-requisite/Co-requisite/Exclusion</td>
<td>Nil</td>
</tr>
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</table>

**Objectives**

This subject provides students with knowledge in:

1. engineering project management tools in business organizations, taking into account the time-cost relationships, resources, processes, risks, the project life cycle, organization, and management principles;
2. project management methodologies and their application;
3. choosing project variables for effective project management; and
4. various developments of project management.

**Intended Subject Learning Outcomes**

Upon completion of the subject, students will be able to:

1. develop suitable project methodologies and techniques in various phases of the project life cycle;
2. select appropriate project variables and practices that are applicable to engineering projects;
3. propose project management solutions, taking into consideration the project objectives and constraints; and
4. measure and report project progress.

**Contribution of the Subject to the Attainment of the Programme Outcomes**

Programme Outcomes:

**Category A: Professional/academic knowledge and skills**

- Programme Outcomes 3 and 5.

**Category B: Attributes for all-roundedness**

- Programme Outcomes 9.

**Subject Synopsis/Indicative Syllabus**

1. **Project Overview, Management Principles, and the Systems Approach**

2. **Project Methodologies, Project Templates, and Planning Techniques**

3. **Pricing, Estimation, and Cost Control for Projects**

4. **Assessment and Control of Projects**
Teaching/Learning Methodology

A mixture of lectures, tutorial exercises, case studies, and laboratory work are used to deliver the various topics in this subject. Some material is covered using a problem-based format where this advances the learning objectives. Other material is covered through directed study to enhance the students’ “learning to learn” ability. Some case studies are from best practices of projects, based on a literature review. They are used to integrate the topics and demonstrate to students how the various techniques are interrelated and applied in real-life situations.

Assessment Methods in Alignment with Intended Subject Learning Outcomes

<table>
<thead>
<tr>
<th>Specific Assessment Methods/Tasks</th>
<th>% Weighting</th>
<th>Intended Subject Learning Outcomes to be Assessed (Please tick as appropriate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Continuous assessment</td>
<td>40%</td>
<td>✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>2. Written examination</td>
<td>60%</td>
<td>✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
<td>✔ ✔ ✔ ✔</td>
</tr>
</tbody>
</table>

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Continuous assessment: short tests, written reports, and tutorial exercises are used to assess students’ understanding and application of the knowledge that they have learnt relative to learning outcomes (1), (2), (3), and (4).

Written examination: questions are designed to assess learning outcomes (1), (2), (3), and (4). Students are required to answer five questions, each of which covers at least one of the learning outcomes.

Student Study Effort Expected

Class contact (time-tabled):
- Lectures 2 hours/week for 12 weeks 24 Hours
- Tutorials 1 hour/week for 9 weeks 9 Hours
- Case studies 3 hours/week for 2 weeks 6 Hours
- Laboratory work 3 hours/week for 1 week 3 Hours

Other student study effort:
- Preparation for assignments, short tests, and the written examination 76 Hours

Total student study effort: 118 Hours

Reading List and References


Last Updated
Aug 2013

Prepared by
Faculty of Engineering