# ENGM90011 Economic Analysis for Engineers

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| **Credit Points:** | 12.5 |
| **Level:** | 9 (Graduate/Postgraduate) |
| **Dates & Locations:** | 2015, Parkville<br>This subject commences in the following study period/s:<br>Semester 1, Parkville - Taught on campus. |
| **Time Commitment:** | Contact Hours: 54 Total Time Commitment: 200 hours |
| **Prerequisites:** | Admission into one of the following courses -<br>MC-ENG Master of Engineering (Chemical with Business)<br>MC-ENG Master of Engineering (Civil with Business)<br>MC-ENG Master of Engineering (Mechanical with Business)<br>MC-ENG Master of Engineering (Electrical with Business)<br>MC-ENG Master of Engineering (Software with Business)<br>MC-ENG Master of Engineering (Mechanical) |
| **Corequisites:** | None |
| **Recommended Background Knowledge:** | None |
| **Non Allowed Subjects:** | None |
| **Core Participation Requirements:** | For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: <a href="http://services.unimelb.edu.au/disability">http://services.unimelb.edu.au/disability</a> |
| **Coordinator:** | Dr Alan Smith |
| **Contact:** | Alan Smith<br>**ajrs@unimelb.edu.au (mailto:ajrs@unimel.edu.au)** |
| **Subject Overview:** | This subject seeks to -<br># Build a thorough understanding of the theoretical and conceptual basis upon which the practice of financial project analysis is built and its application to engineering<br># Satisfy the practical needs of the engineering manager toward making informed financial decisions when involved in an engineering project<br># Incorporate critical decision-making tools that engineering managers can bring to the task of making informed financial decisions. |
| **Learning Outcomes:** | INTENDED LEARNING OUTCOMES (ILOs)<br>On completion of this subject, students are expected to be able to -<br># Describe the behaviour of markets<br># Calculate and interpret elasticities<br># Estimate the cost of production and services<br># Optimally allocate scarce capital resources to projects<br># Estimate the financial health of organisations |

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| | # Produce financial budgets. |
| **Assessment:** | Five 700 word assignments due every two weeks of semester (Total 50%), assess ILOs 1 to 6 (each assignment will have a focus on one of the ILOs).One two hour end of semester examination (50%), assesses ILOs 1 to 6. |
| **Prescribed Texts:** | None |
| **Breadth Options:** | This subject is not available as a breadth subject. |
| **Fees Information:** | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| **Related Majors/Minors/ Specialisations:** | Master of Engineering (Biomedical with Business)<br>Master of Engineering (Chemical with Business)<br>Master of Engineering (Civil with Business)<br>Master of Engineering (Electrical with Business)<br>Master of Engineering (Mechanical with Business)<br>Master of Engineering (Mechanical)<br>Master of Engineering (Software with Business) |