MCEN90010 Finance & Human Resources for Engineers

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 30 hours lectures, 9 hours tutorials and 11 hours workshops Total Time Commitment: 120 hours
Prerequisites:	The prerequisite for this subject is 112.5 points of undergraduate engineering subjects or admission into an Engineering Coursework Masters degree
Corequisites:	NA
Recommended Background Knowledge:	Familiarity with plotting using common software, such as Excel or MATLAB.
Non Allowed Subjects:	316-102 Introductory Microeconomics 325-201 Organisational Behaviour 436284 Organisational Engineering
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability
Coordinator:	Dr Alan Smith
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Subject Overview:	This subject provides an introduction to financial and human resource management for engineers. It considers the role of engineers in both large and small organisations, both in the private and not-for-profit sectors. The central theme of the subject is the achievement of organisational goals, and covers the major topics of strategy, systems, structure and resources, particularly people and finances. The subject emphasises the relevant theory and its application to practical situations that engineers may find themselves having to deal with. During the subject students will be expected to participate in interactive workshops that will reveal a number of personality and management traits. These are important for understanding how to maximise their performance and that of those they are responsible for in a professional environment. Where appropriate current issues will be incorporated into the learning program.
Objectives:	On completion of this subject students should be able to • describe the contribution of engineers to the financial and personnel management of employing organisations; • describe a range of human behaviours in work organisations, both large and small; • identify their preferred management and motivation characteristics; • identify relationships among organisational variables, including formal structures, interpersonal relations, managers and motivators;

	• measure and explain indicators of the financial health of companies; • assess equipment purchase proposals and cost of design.
Assessment:	Participation in tutorials and workshops (10%), one team-based project (less than 1000 words per student) before week 10 (15%), four individual assignments (not more than 1000 words each) of equal weight (15%) due in weeks 5, 7, 9 and 11 of the semester and one written 3-hour end-of-semester examination (60%).
Prescribed Texts:	Core Concepts of Organizational Behavior – Schermerhorn, J.r., Hunt, J.G. and Osborn, R.N., Wiley, 2004
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
Generic Skills:	On completion of the subject students should have the followingskills: • Ability to undertake problem identification, formulation, and solution • Understanding of the business environment • Ability to communicate effectively, with the engineering team and with the community at large • Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member
Related Course(s):	Bachelor of Engineering Bachelor of Engineering (Biomedical) Biomechanics Bachelor of Engineering (EngineeringManagement)Mechanical&Manufacturing Bachelor of Engineering (Mechanical &Manufacturing)& Bachelor of Science Master of Engineering Management Master of Engineering Management Master of Engineering Project Management Master of Engineering Project Management