

352AF Master of Engineering Science (Mechanical and Manufacturing)

Year and Campus:	2010 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Research Higher Degree
Duration & Credit Points:	Students are expected to complete this research in 1.50 years full time, or equivalent part time. Credit Points: 150
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Course Overview:	This is a Masters Degree (by Research) Possible research areas: Applied thermodynamics technology, transport energy and emissions, technical problems, systems theory, automatic control, history of technology, energy conversion and utilisation, fluid mechanics, materials technology, mechanics of solids, fracture mechanics and fatigue, biomechanics, ergonomics, machine dynamics, advanced design, concurrent engineering, marine engineering. Machining and metal forming operations, metrology process capability and quality control, design of manufacturing systems, database design, financial and facilities planning, plant layout, rehabilitation engineering, ergonomics, technical problem solving methodology with reference to work study and operations research, CAM and MIS software development, scheduling, robotics and automation.
Objectives:	The research masters provides students with the opportunity to carry out independent and sustained research under appropriate supervision, to develop advanced research skills and techniques, and to present findings in documented, scholarly form. The research should make an independent contribution to learning, or offer a critical perspective on existing scholarship or methodology.
Course Structure & Available Subjects:	Normally examined by thesis alone. If Faculty requires a minor examinable coursework component may be prescribed.
Entry Requirements:	There is no further entry into this course from 2010
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/
Graduate Attributes:	-