Master of Engineering Management (BN87)

Year offered: 2010
Admissions: Yes
CRICOS code: 006368G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (indicative): 2010: Full fee tuition $9,000 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Mark Ho (replacing Prof Jay Yang from September 2010)
Discipline coordinator: Dr Jacob Coetzee (Course Leader) - Please refer course specific enquiries to Course Leader.
Campus: Gardens Point

Overview
This course offers an engineering management qualification to practising engineers through a formal qualification in management with advanced engineering skills and knowledge. You can choose to specialise in manufacturing or maintenance engineering. Early exit with a Graduate Diploma is available upon completion of two core units and two specialisation units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
The Master of Engineering Management allows graduates to become specialist engineering managers within their chosen professional field, particularly to become a leader and manager of engineering processes. Graduates can also use the skills and knowledge gained to diversify their capabilities across a broader spectrum of engineering disciplines.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Advanced Standing
Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full-time Course structure - February Entry

Year 1, Semester 1
BEN610 Project Management Principles
ENN510 Engineering Knowledge Management
ENN515 Total Quality Management
AMN435 Communication, Negotiation and Leadership
OR
GSN235 Communication, Negotiation and Leadership

Year 1, Semester 2
BEN710 Sustainable Practice in Built Environment and Engineering
BEN910 Integrated Project
ENN530 Asset and Facility Management
ENN570 Enterprise Resource Planning

Full-time Course structure - Mid Year Entry

Year 1, Semester 2
BEN710 Sustainable Practice in Built Environment and Engineering
ENN530 Asset and Facility Management
ENN570 Enterprise Resource Planning
AMN435 Communication, Negotiation and Leadership
OR
UNIT SYNOPSES

AMN435 COMMUNICATION, NEGOTIATION AND LEADERSHIP
The unit serves as an introduction to effective leadership, communication, and negotiation processes as fundamental skills in today’s organisations. In particular, it focuses on the increasing importance of such skills for Engineering, Built Environment, Project management and other professionals to bridge cultural boundaries and enhance organisational performance in an increasingly globalised world.
Credit points: 12  Contact hours: 3  Campus: Gardens Point  Teaching period: 2010 SEM-1 and 2010 SEM-2

BEN610 PROJECT MANAGEMENT PRINCIPLES
This unit serves as an introduction to project management as a fundamental skill for all postgraduate coursework students in built environment and engineering. It offers an overview of the framework, processes and key knowledge areas of project management.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 SEM-1

BEN710 SUSTAINABLE PRACTICE IN BUILT ENVIRONMENT AND ENGINEERING
Sustainability has become a global agenda that impacts upon our work and everyday life. The unit will introduce principles, challenges and skills for dealing with a diversity of trans-disciplinary issues in sustainable development. By introducing critical sustainability theory and challenging best practices, this unit will prepare you for the impending changes that are necessary in all built environment and engineering disciplines.
Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2

BEN910 INTEGRATED PROJECT
Problems that confront professionals are ill-defined and complex. The ability to define a problem, and collect and analyse relevant information using appropriate research methods is essential to professional practice. From a learning perspective, one of the most effective ways of achieving this is to consolidate and extend previously gained skills through an activity that is relevant to industry and, where possible, is associated with a specific workplace.
Credit points: 12  Campus: Gardens Point  Teaching period: 2010 SEM-1 and 2010 SEM-2
ENN510 ENGINEERING KNOWLEDGE MANAGEMENT
Knowledge management is an innovative process that needs to be closely aligned to organisation goals. The development of knowledge management systems requires a sound understanding of the related issues such as knowledge identification, knowledge development, knowledge preservation, knowledge representation and knowledge distribution. All engineering managers must have the fundamental skills and knowledge to understand, design and develop and manage knowledge management systems in an organisation. This unit provides the basic knowledge and skills to understand the complex issues of knowledge management that are essential to the career advancement of engineering managers.

Equivalents: MEN273  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 SEM-1

ENN515 TOTAL QUALITY MANAGEMENT
Total Quality Management (TQM) has evolved beyond its roots in statistics and the quality control function. Today, many observes consider it to be a framework for "excellent" management. The dominant themes are: a data-based approach to problem solving; a strong emphasis on organizational and behavioral considerations; a customer-oriented market-sensitive approach to designing and delivering both products and services; and finally, a desire for continual improvement. TQM practice is a pathway to the achievement of world class competitiveness.

Equivalents: MEN177  Credit points: 12  Campus: Gardens Point  Teaching period: 2010 5TP3

ENN530 ASSET AND FACILITY MANAGEMENT
Professionals are often involved in the management of infrastructure including transportation, water, energy, buildings and telecommunications. In today's business environment, the efficient maintenance and management of these assets and associated risks is critical. The professionals need to know how to manage the whole of life cycle of assets; organise maintenance based on condition and reliability assessments; and create as well as implement effective asset management and maintenance plans so as to meet the business objectives of the organisation.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2

ENN570 ENTERPRISE RESOURCE PLANNING
Enterprise Resource Planning (ERP) plays an increasingly significant role in large corporations. Today, many business analysts consider ERP to be essential for effective corporate functionality and increased productivity for private and government industries.

Equivalents: MEN272  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 5TP6