Master of Infrastructure Management (BN88)

Year offered: 2011
Admissions: Yes
CRICOS code: 060807G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic Fees (indicative): 2011: Full fee tuition $9,125 (indicative) per semester
International Fees (indicative): 2011: $11,375 (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
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Mark Ho (Please refer course specific enquiries to Course Leader.)
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

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.

Limits on grades of 3
A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website.

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
UDN572 Infrastructure Planning and Management
UDN574 Water Resource and Waste Management

Year 1, Semester 2
BEN710 Sustainable Practice in Built Environment and Engineering
BEN910 Integrated Project
ENN530 Asset and Facility Management
UDN576 Transportation Infrastructure

Full-time Course structure - Mid Year Entry

Year 1, Semester 1
BEN610 Project Management Principles
BEN710 Sustainable Practice in Built Environment and Engineering
UDN572 Infrastructure Planning and Management
UDN574 Water Resource and Waste Management

Year 1, Semester 2
AMN435 Communication, Negotiation and Leadership
BEN910 Integrated Project
UDN576 Transportation Infrastructure

Part-time Course structure - February Entry

Year 1, Semester 1
BEN610 Project Management Principles
UDN572 Infrastructure Planning and Management

Year 1, Semester 2
BEN710 Sustainable Practice in Built Environment and Engineering
ENN530 Asset and Facility Management

Year 2, Semester 1
UDN574 Water Resource and Waste Management
AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2
BEN910 Integrated Project
UDN576 Transportation Infrastructure

Part-time Course structure - Mid Year Entry

Year 1, Semester 2
ENN530 Asset and Facility Management  
UDN576 Transportation Infrastructure

Year 2, Semester 1

BEN610 Project Management Principles  
UDN572 Infrastructure Planning and Management

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering  
AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project  
UDN574 Water Resource and Waste Management

Potential Careers:  
Manager.

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.  
Equivalent: GSN235  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 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: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 SEM-2

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: 2011 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: 2011 SEM-1 and 2011 SEM-2

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: 2011 SEM-2

UDN572 INFRASTRUCTURE PLANNING AND MANAGEMENT  
It is essential for professionals practicing in the field of infrastructure to understand what is infrastructure, the basic principles of infrastructure planning, condition assessment, monitoring of the condition of the asset, maintenance strategies, funds requirement, life cycle costing, annual budgeting for maintenance and rehabilitation, and prioritising maintenance strategies for optimum return on investment.  
Credit points: 12  Campus: Gardens Point  Teaching period: 2011 SEM-1

UDN574 WATER RESOURCE AND WASTE MANAGEMENT  
This unit will provide you with an in-depth understanding of the important issues in water and waste management within the urban environment and particularly the infrastructure management discipline. The management of water and
waste are among the essential factors which influence the economic, social and environmental viability of urban areas. In most parts of the world including Australia, water is a limiting resource. The prudent management of the diverse water sources available, the provision of water ‘fit for purpose’ to meet human and ecosystem needs and the adoption of strategies for optimising of conveyance infrastructure is critical for the long-term sustainability of human settlements. The development and management of systems for the collection, transport and re-use and disposal of various waste streams forms an important activity to ensure the sustainability of urban areas.

Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

UDN576 TRANSPORTATION INFRASTRUCTURE
This unit has been developed to provide you with an in-depth understanding of the critical issues in the area of transportation infrastructure. The effective management of transportation infrastructure is essential for economic and social considerations. As expansion and development of transportation infrastructure continues to support a nation's economy, prudent management of transportation infrastructure to provide a desired level of serviceability are critical for the long-term sustainability of economic development.

Credit points: 12  Campus: Gardens Point  Teaching period: 2011 SEM-2