Master of Infrastructure Management (BN88)

Year offered: 2013  
Admissions: Yes  
CRICOS code: 060807G  
Course duration (full-time): 1 year  
Course duration (part-time): 2 years  
Domestic Fees (indicative): 2013: $9,100 (indicative) per Semester  
Student Services and Amenities Fee  
You'll need to pay the Student Services and Amenities Fee (SSAF) as part of your course costs. More information on the SSAF - http://www.student.qut.edu.au/fees-and-fines/study-costs/fee-schedule/table-l-student-services-and-amenities-fee

Start month: February, July  
IELTS (International English Language Testing System):  
Overall: 6.0, Subscores: 6.0  
Deferment allowed: No  
Total credit points: 96  
Standard credit points per full-time semester: 48  
Standard credit points per part-time semester: 24  
Course coordinator: ASPRO Bambang Trigunarsyah  
Discipline coordinator: Science and Engineering Faculty  
Campus: Gardens Point  
Attendance: Part-time, Full-time  
Additional Requirements:  
A four-year full-time bachelor degree in a relevant discipline area; or an equivalent qualification, 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.

Course highlights  
- A Master of Infrastructure Management will advance your skills and understanding of the diverse types of infrastructure assets, their planning and management.  
- Develop knowledge of institutional assessments and the environmental, social, economical, and financial facets of infrastructure management.  
- Learn methodologies in project management, asset management and planning.

Details:  
This course addresses the main concepts and methodologies of infrastructure planning and management. It will advance skills and understanding of the diverse types of infrastructure assets, their planning and management. Aspects include institutional assessments and the environmental, social, economic and financial facets of infrastructure management.

Career outcomes  
Graduates may become project managers, asset managers or planners within infrastructure organisations, or use the skills and knowledge gained to diversify capabilities across a broader spectrum of construction disciplines.

Full-time Course structure - February Entry

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<tr>
<th>Year 1, Semester 1</th>
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<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
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<tr>
<td>UDN572</td>
<td>Infrastructure Planning and Management</td>
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<td>UDN574</td>
<td>Water Resource and Waste Management</td>
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<tr>
<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
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Full-time Course structure - Mid Year Entry

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<thead>
<tr>
<th>Year 1, Semester 2</th>
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<tbody>
<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>BEN910</td>
<td>Integrated Project</td>
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<tr>
<td>ENN530</td>
<td>Asset and Facility Management</td>
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<tr>
<td>UDN576</td>
<td>Transportation Infrastructure</td>
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<tr>
<th>Year 2, Semester 1</th>
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UNIT SYNOPSES

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.

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.

Equivalents: GSN235 Credit points: 12 Contact hours: 3 Campus: Gardens Point Teaching period: 2013 SEM-1 and 2013 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: 2013 SEM-1 and 2013 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: 2013 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: 2013 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: 2013 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: 2013 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: 2013 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  
Contact hours: 4 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2