ENVIRONMENT & ENGINEERING

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Course Structures

☐ Course Requirements and Notes Relating to Postgraduate Courses

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester they are offered. Prerequisite units must normally be passed before a student may proceed to a further unit which has the prerequisite so specified. The Course Coordinator should be consulted regarding variations from the course structure. This is considered to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed should seek the advice of the Course Coordinator.

Supplementary Assessment

It is not normally Faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment, the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

School of Civil Engineering Safety Shoes Policy

Students enrolled in units specified by the School of Civil Engineering will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering as required.

- **■** Master of Applied Science (Research) (BN71)
- **■** Master of Engineering (BN72)

Location: Gardens Point campus

Duration:

Full-Time: 1 year minimum (2 semesters), 2 years maximum (4 semesters) Part-Time: 2 years minimum (4 semesters), 4 years maximum (8 semesters)

Course Coordinators:

Master of Applied Science (Research): Dr Keith Hampson

Master of Engineering: Dr M. Mahendran

Introduction

The objectives of the program are:

□ to provide instruction and postgraduate educational opportunities in design,

	investigation, development, research or any combination thereof, in the specialised fields of applied science relating to the built environment or directly related to professional engineering practice, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge
	to provide further education in research methods
	to enable graduate employed in industry to undertake further education by research and thesis
	to further relationships between the University and industry or other external agencies involved in applied science or engineering to their mutual advantage, and
	to provide formal recognition of work of an advanced nature.
1.	General Conditions
	1 The Council of the Outside of University of Technology was exactly bed in 1990

- 1.1 The Council of the Queensland University of Technology was established in 1989 under the *Queensland University of Technology Act* 1988.
- 1.2 The Council's power to approve recommendations from Faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedures relating to research degrees is exercised through a Research Management Committee which is a subcommittee of University Academic Board.
- 1.3 Research Management Committee has delegated responsibility for day-to-day administration of research Masters degree courses to Faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research Masters degree candidates.
- 1.4 This program is administered by the Academic Board of the Faculty of Built Environment and Engineering through its Faculty Research Committee. The program is offered in Architecture, Civil Engineering, Construction Management, Electrical and Electronic Systems Engineering, Industrial Design, Interior Design, Landscape Architecture, Mechanical and Manufacturing Engineering, Planning and Surveying.
- 1.5 In order to qualify for the award of the degree of Master of Applied Science (Research) or Master of Engineering a candidate must:
- □ have completed the approved program involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment and Engineering Academic Board
- □ have submitted and the Faculty Research Committee accepted a thesis, together with reports and/or documents where applicable, prepared under the supervision of the Thesis Panel
- □ have completed such other work as may be prescribed by the Faculty Research Committee, and
- □ submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.

2. Registration

- 2.1 Applications shall be accepted subject to the availability of facilities and supervision.
- 2.2 Applications may be lodged with the Registrar at any time.
- 2.3 There is a six-month maximum period between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Applied Science (Research) or Master of Engineering before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

A Note Regarding Enrolment

Please advise the Faculty Office and Enrolments Section of the University as soon as possible if there are any changes to your name, address or other personal details. You must submit a completed 'Change to Enrolment' form to the Enrolments Section. You may apply to change from full-time to part-time or vice versa, using Form I – 'Intrafaculty Changes'. This form must be accompanied by a note of recommendation from your supervisor and forwarded to the Faculty Research Committee. Applications must detail your intentions on attendance and employment – see 'Attendance status, time limits and employment'.

lin	nits and employment'.
	The minimum academic qualifications for admission to the Master of Applied Science esearch) or Master of Engineering are:
	a four-year degree in an appropriate discipline in which the candidate has received at least Honours 2A from the Queensland University of Technology, or
	a qualification judged equivalent by the Faculty Research Committee, or
	a grade point average of 5.0 or better in a graduate diploma program, in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing, or
	a grade point average of 5.0 or better in a coursework Masters degree program in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing.
pro on	a applicant for the Master of Applied Science (Research) or Master of Engineering ogram without the minimum entry requirement may present a case for admission based the submission of evidence of qualifications which demonstrate the applicant's capacity pursue the course of study.
Th	e case may be based on the following:
(a)	three years' professional experience in the general field in which the proposed work lies, or
(b)	satisfactory completion of an appropriate Masters qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
(c)	the submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a branch of applied science relevant to the built environment or a division of engineering in which the applicant has worked as a professional practitioner in a position of responsibility. This knowledge should be relevant to the field of study proposed.
	A candidate shall be registered as a graduate student if they are considered by Faculty search Committee to meet the requirements for entry.

research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee shall, in addition to assessing the applicant's suitability, be satisfied that:

□ have satisfied Faculty Research Committee that they are a suitable person to undertake

□ have satisfied Faculty Research Committee that they can devote sufficient time to the

2.6 A candidate shall receive confirmed registration as a graduate student when they:

have satisfied the requirements for admission and achieved by work and study a standard

recognised by Faculty Research Committee, or

the program, and

the proposed program is relevant to the aims and objectives of the University
the proposed program has relevance to the needs of society or industry, and
adequate resources are available to support the proposed program.
An application for registration should set out systematically and fully the candidate's ended course of study including the following:
a description of the area of study within which the candidate's course lies
a summary of the work to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program, its background, the significance and possible application of the research program, and the research plan
the location at which the work will be undertaken, the amount of time which will be devoted to it and the resources required
details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken
a brief account of industrial experience
a list of publications
sponsorship details
statement of approval by Head of School and/or Director of Centre, and
any other relevant material.

- 2.9 The program is offered on a full-time or a part-time basis and may be undertaken externally. Part-time students normally will be employed in some professional capacity during the day and carry out their research projects on a part-time basis at QUT, in their place of employment or in a sponsoring organisation.
- 2.10 Full-time students may be on a scholarship from industry or QUT, and may carry out their research at QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their research projects at QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a candidate may not devote more than 300 hours annually to teaching activities, including preparation and marking.
- 2.11 A candidate may be based at QUT or at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration. A candidate may also be external where their residence is outside of Brisbane.
- 2.12 The Faculty Research Committee may cancel a candidate's registration if:
- □ after consulting a candidate's supervisors and having taken account of all relevant circumstances, the Committee is of the opinion that the candidate either has effectively discontinued their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).
- 2.13 A candidate whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation may be re-admitted under such conditions as the Faculty Research Committee shall prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Applied Science (Research) or Master of Engineering will undertake a program of research and investigation on a topic approved by the Faculty Research Committee.

- 3.2 All projects should be supported by outside agencies such as industry, government authorities and professional organisations, or by QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that projects be primarily directed towards society or industry need.
- 3.3 The program must be such as to enable the candidate to develop and demonstrate a level of scientific competence significantly higher than that expected of a first degree graduate. The required competence normally would include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist area.
- 3.4 Where advised, a candidate may be required to complete satisfactorily a program of formal coursework in subjects relevant to the field of study up to a total class contact of 48 credit points.
- 3.5 The course of study normally will include:
- participation in University scholarly activities such as research seminars, teaching and publication
 regular face-to-face interactions with supervisors, and
- □ a program of supervised research, design, investigation, development, construction, or any combination thereof.

The course of study may also include a program of assessed coursework.

3.6 Coursework at Masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

□ as advanced lecture courses

□ as seminars in which faculty and candidates present critical studies of selected problems within the subject field

☐ as independent study or reading courses, or

□ as research projects conducted under Faculty supervision.

Candidates will be encouraged to attend conferences where these are related to the field of the research.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.7 Maximum and Minimum Coursework Requirements:

Thesis
Maximum coursework requirement
Minimum coursework requirement
Normal coursework requirement

A minimum of two-thirds of the degree

64 credit points
12 credit points
24 to 36 credit points

3.8 Components of Coursework:

(a) Compulsory requirement for all students in the Faculty:

IFN001 Advanced Information Retrieval Skills

4 credit points

Attendance & Participation in School and/or Research Centre or Concentration Seminar/

6 to 12 credit points

Research Centre or Concentration Seminar/ Workshop

Maximum of 16 credit points per semester for each semester enrolled in the program.

(b) Components determined by School and/or Research Centre or Concentration - Core or Elective

Units assessed by formal graded assessment Maximum units assessed by satisfactory/ unsatisfactory or merit by student Specific tailor-made reading courses supervised by supervising panel or individual member of staff

24 credit points maximum

24 credit points maximum

24 credit points maximum

Students must contact their Course Coordinator to finalise their program.

4. Period of Time for Completion of Course of Study

- 4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be a minimum of one year and a maximum of two years or the part-time equivalent. Candidates who do not have a four-year degree or its equivalent will normally need to undertake a year of full-time coursework or equivalent whilst enrolled in the research degree.
- 4.2 In order to encourage completion of research degrees within a reasonable timeframe, QUT has set a limit of two years on the length of time for which it will fund a Faculty for full-time research Masters degree candidates.
- 4.3 A registered graduate full-time student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered graduate part-time student shall present the thesis for examination after a period of at least two years. The maximum time is four years from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.
- 4.4 Time limits are measured in years from the time of first registration as a graduate student. Periods of exclusion or absence with or without approval are included.
- 4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the Committee together with the reasons for the delay in completing the course and the expected date of completion. Where the Committee agrees to an extension, a time limit will be set for the maximum period of registration in the program.
- 4.6 Candidates are notified of exclusion by registered mail. They have right of appeal to the Academic Appeals Committee.

5. Supervision

- 5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as Associate Supervisors. The supervisors shall form a Thesis Panel.
- 5.2 The Principal Supervisor shall normally be from the academic staff of the QUT School in which the candidate is enrolled.
- 5.3 The Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research project and on continued enrolment.
- 5.4 The Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research project.

6. Place and Conditions of Work

- 6.1 The research program will normally be carried out under supervision in a suitable environment within Brisbane. However, external study is possible. External candidates will be required to spend a minimum of four weeks at QUT annually.
- 6.2 The Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:
- a supporting statement from the Head of the QUT School and/or Director of Centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the Masters degree, that the program is supported, that the School or Centre is willing to undertake the responsibility of supervising the work of the applicant and that resources are available to support the proposed research.
- 6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:
- a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project and that they are willing to accept responsibility for supervising the applicant's work, and
- a supporting statement from the head of the QUT School or Director of Centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the Masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the School/Centre is willing to accept the responsibility of supervising the work.

7. Thesis

- 7.1 In the form of presentation, availability and copyright, the thesis shall comply with all the requirements of the document Requirements for Presenting Theses (Appendix 51 in the Manual of Policies and Procedures).
- 7.2 A candidate shall submit the title of their thesis for approval by the Faculty Research Committee with their application, and after approval has been granted, no change will be made except with the permission of the Committee.
- 7.3 The candidate shall give two months' written notice of intention to submit their thesis through the Principal Supervisor.
- 7.4 The thesis shall comply with the following requirements:
- ☐ A significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the Masters degree.
- ☐ It must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced application of existing knowledge.
- ☐ It must reach a satisfactory standard of literary presentation.
- ☐ It shall be the candidate's own account of the work. Where work is carried out conjointly with other persons, the Faculty Research Committee shall be advised of the extent of the candidate's contribution to the joint work.
- ☐ The thesis shall not contain as its main content any work or material which the candidate has previously submitted for another degree or similar award.

- ☐ The thesis may consist primarily of reports, plans and/or documents or may be supported by these if they have a bearing on the subject of the thesis. Other supporting documents such as published papers may also be submitted with the thesis.
- ☐ The thesis shall contain an abstract of not more than 300 words.
- 7.5 Except with the specific permission of the Faculty Research Committee, the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.
- 7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.
- 7.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Faculty Research Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis, during which time the thesis will be held on restricted access in the OUT Library.

8. Examination of Thesis

- 8.1 The Faculty Research Committee shall appoint two/three examiners, of whom at least one shall be from outside of the University. No supervisor of the candidate shall be appointed as one of the examiners.
- 8.2 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.
- 8.3 A candidate may be required to make an oral defence of the thesis.
- 8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:
- (a) recommend that the thesis be accepted without modification, and to Academic Board that the candidate be awarded the degree, or
- (b) recommend to Academic Board that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
- (c) recommend that the thesis not be accepted until major revisions have been made. Such revisions might be rewriting one of the sections, with or without additional work, or
- (d) not accept the thesis and terminate the candidate's registration.
- 8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

■ Master of Built Environment (BN73)

URBAN DESIGN MAJOR

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: To be advised

Entry Requirements

NORMAL ENTRY

A grade point average of 5.0 or better in the Graduate Diploma in Urban Design at the completion of one semester full-time or two semesters part-time.

PROVISIONAL ENTRY

Applicants with other than normal entry requirements may be registered provisionally in the course if they submit other evidence of academic and professional attainment and candidature is approved by the Dean of the Faculty on the recommendation of the Course Coordinator.

A person provisionally enrolled is required to satisfactorily undertake a qualifying program which may include course units, and/or such other work as is determined before admission is confirmed. Provisional registration in the course will apply for a maximum period of 12 months for both full-time and part-time students.

Articulation to the Masters Program from the Graduate Diploma in Urban Design

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and at the completion of two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the Masters level.

Focus in the Masters Program

The Masters program includes skills and knowledge development through set coursework in common with the Graduate Diploma in Urban Design, but also requires individual research and the writing of a dissertation.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

Full-Time Course Structure			Contact Hrs/Wk		
Year 1, Se	mester 1				
IFN001	Advanced Information Retrieval Skills	4	1		
PSN004	Applied Research Techniques	4	1		
PSP401	Urban Design Analysis Studio	12	1 3 3		
PSP403	Urban Design Conjecture Studio	12	3		
PSP421	History of Urban Systems	4	1		
PSP424	Urban Design Theory & Criticism	4	1		
Plus a sele					
CNP439	Property Management	6	2		
PSP011	Conservation Theory	3	1 2 1		
PSP411	Environmental Psychology	4 2	2		
PSP416	Computer Aided Data Analysis	2	1		
PSP442	Law & Legislation in Urban Design	4	1		
Year 1, Se	mester 2				
PSN099	Dissertation	24			
PSP402	Urban Design Context Studio	12	3		
PSP405	Urban Design Field Studies	4	10 days		
Plus a sele	Plus a selection of the following totalling a minimum of 8 credit points:				
PSN002	Concentration Studies A	4	1		
PSN003	Concentration Studies B	8	2		

PSP011 PSP432 PSP434 PSP441	Conservation Theory Urban Landscape Urban Services & Functions Computer Applications in Urban Design Elective Unit/s	3 4 4 4	1 1 1
Part-Time	e Course Structure		
Year 1, Se	emester 1		
IFN001	Advanced Information Retrieval Skills	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1
Year 1, Se	emester 2		
PSP402	Urban Design Context Studio	12	3
PSP405	Urban Design Field Studies	4	10 days
Plus a sele	ction from the following totalling at least 8 credit poin	ts:	
PSP011	Conservation Theory		ı
PSP416	Computer Aided Data Analysis	3 2 4 4	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4 4	1
PSP441	Computer Applications in Urban Design	4	1
Year 2, Se	emester 1		
PSN004	Applied Research Techniques	4	1
PSP403	Urban Design Conjecture Studio	12	3
Plus a sele	ection of the following totalling a minimum of 8 credit	points:	
CNP439	Property Management	- 6	2 1
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4 2 4	2
PSP416	Computer Aided Data Analysis	2	į
PSP442	Law & Legislation in Urban Design	4	1
Year 2, Se	emester 2		
PSN099	Dissertation	24	

■ Master of Engineering Science (Civil) (CE74)

Location: Gardens Point campus **Course Duration:** 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Dr Luis Ferreira

Entry Requirements

Entrants to the Masters degree program must either:

- (i) have obtained a Bachelor of Engineering degree with Honours in Civil Engineering, or
- (ii) have obtained a Graduate Diploma with a grade point average of at least 5.0 on a 7-point scale.

Where entrants do not have Honours ranking in their Bachelor of Engineering (Civil) degree and/or have not undertaken units equivalent to the available QUT undergraduate units in their chosen area of study, the Head of School may require that additional undergraduate units be undertaken.

Entrants may transfer from the Graduate Diploma in Municipal Engineering (CE63) with a grade point average of at least 5.0 after completion of 50 per cent of the coursework for

the Graduate Diploma. In so doing students must comply with rule 4.1.1 of the Student Rules which states 'for courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one half of the credit points required for course completion'.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed 'Majoring in...'.

Course Structure

The course consists of a minimum of 96 credit points. Either 36 or 20 credit points are allocated to a project and the remainder to the non-project units. The majority of the units are common with the Graduate Diploma in Municipal Engineering (CE63). Students who do not wish to undertake a major must complete the core units plus any other combination of units, to make up the minimum total of 96 credit points. Such programs should be devised in consultation with the Course Coordinator.

			Credit Points	Contact Hrs/Wk			
Year 1. Ser	Year 1, Semester 1						
CEP131	Engineering Management & Administration Units chosen from major		12 12	3			
Year 1, Se	mester 2						
CEP200	Process Modelling Units chosen from major		8 16	2			
Year 2. Se	mesters 1 and 2						
	of the following options:						
CEP999/1/2	Project A ²		36	9			
	Units chosen from major totalling		12				
Option 2	n			_			
CEP998/1/2	Project B ² Units chosen from major totalling		20 28	5			
		Year and Semester of Offer	Credit Points	Contact Hrs/Wk			
ENVIRON	MENTAL ENGINEERING MAJOR (EVN)	or Oner					
Compulso							
CEP172	Water Quality Engineering	even, 1	8	2			
CEP277	Waste Management	even, 2	12	3			
CEP290	Environmental Law & Assessment ³	odd, 2	8	2			
Choose rer	naining units from the following:						
CEP128	Municipal Engineering Planning	even, 1	12	3			
CEP174	Public Health Engineering Practice	odd, Î	12	3			
CEP276	Advanced Treatment Processes	odd, 2	8	2			
CEP310	Urban Transportation Planning	even, 2	8	3 3 2 2 2 2			
CEP361	Drainage Engineering	odd, 2	8 8	2			
CHP691	Environmental Chemistry	even, 2	8	2			
LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)							
	Compulsory units:						
CEP107 CEP127	Construction Management & Economics	odd, 1 odd, 1	8 12	2			
CEP127 CEP128	Road & Traffic Engineering Municipal Engineering Planning	even, 1	12	2 3 3			
CD1 120	warmarbar puburoning vianiming	J. VII., 2	~~	J			

² Safety boots must be worn for practical exercises and field trips.

³ CEP290 Environmental Law and Assessment may be offered in even years, Semester 2, in conjunction with a Bachelor of Engineering elective unit.

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Choose remaining units from the following:						
CEP109	Municipal Law & Regulations	even, 2	8	2		
CEP174	Public Health Engineering Practice	even, 1	12	3		
CEP290	Environmental Law & Assessment ⁴	odd, 2	8	2		
CEP361	Drainage Engineering	odd, 2	8	2		
	-					
PUBLIC HE	PUBLIC HEALTH ENGINEERING MAJOR (PHN)					
Compulsor	y units:					
CEP172	Water Quality Engineering	even, 1	8	2		
CEP174	Public Health Engineering Practice	odd, 1	12	3		
CEP276	Advanced Treatment Processes	odd, 2	8	2		
CEP277	Waste Management	even, 2	12	3		
Choose remaining units from any other major.						

TRANSPORTATION ENGINEERING MAJOR (TRN)

Compulsory units:

Compais	ory diffes.			
CEP127	Road & Traffic Engineering	odd, I	12	3
CEP215	Advanced Traffic Engineering	odd, 2	8	2
CEP218	Transportation Engineering	even, l	12	3
CEP310	Urban Transportation Planning	even 2	8	2

Choose remaining units from any other major.

■ Master of Engineering Science (Computer and Communication Engineering) (EE76)

This course code (EE76) replaces course code (EE75).

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Anthony Maeder

Entry requirements

- Bachelor degree in Engineering with at least second class Honours or equivalent, or
- (ii) Bachelor degree in Engineering or equivalent together with successful completion of the Masters Qualifying Program
- (iii) Graduate Diploma in Computer Engineering with a grade point average (GPA) of 5.0 (credit level) or higher will meet the entry requirements for admission to the Master of Engineering Science (Computer Engineering Stream) Upgrade Program.

Streams

Two streams are offered in the course: Computer Engineering and Communication Engineering. Students enrol in units according to the stream they wish to pursue. Any requests for approval to substitute different units should be directed to the Course Coordinator.

Masters Qualifying Program

Applicants who do not meet the entry requirements for the Master of Engineering Science (Computer and Communication Engineering) outlined in (i) above, will be required to enrol in the first semester of the Graduate Diploma in Computer Engineering (EE65). If in

⁴ CEP290 Environmental Law and Assessment may be offered in even years, Semester 2, in conjunction with a Bachelor of Engineering elective unit.

this first semester a sufficiently high standard is attained, then candidates will be invited to change enrolment to the Masters program. Otherwise they will continue their studies in the Graduate Diploma in Computer Engineering towards that award.

Masters Upgrade Program

Those who have completed the Graduate Diploma in Computer Engineering may upgrade by undertaking further study in the Master of Engineering Science (Computer Engineering Stream) and be given credit for the units which they have completed at graduate diploma level. The structure of the course dictates that this upgrade program be undertaken on a part-time basis.

Students undertaking the Masters Upgrade Program will enrol in the following units:

		Credit Points	Contact Hrs/Wk
EEP301	Project	12	1
EEP302	Research Component 1 (Computer Engineering Stream)	12	

Methods of Assessment

Assessment is undertaken in six coursework units and two research units. The coursework units are common with the Graduate Diploma in Computer Engineering. However, Masters students must undertake an additional research training assessment for each coursework unit. These six additional assessments constitute the Research Component unit. Also, an individual research project under academic supervision must be completed. Candidates who have completed the Graduate Diploma in Computer Engineering will be required to complete both the Project and the Research Component, undertaking additional assessment for each coursework unit credited towards the Graduate Diploma.

COMPUTER ENGINEERING STREAM

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Year 1, Ser	nester 1		
EEP101 EEP102 EEP124	Algorithms for Control Engineering Unix & C for Engineers Data Communications	12 12 12	3 3 3
Select one	unit from the following:		
EEP129 EEP137	Image Processing & Computer Vision Advanced Topic A	12 12	3 3
Year 1, Ser	nester 2		
EEP104 EEP301 EEP302	Real-time Operating Systems Project Research Component 1	12 12 12	3 1
Select one	unit from the following:		
EEP120 EEP127	Networks & Distributed Computing Advanced Topic B	12 12	3 3
Part-Time	Course Structure		
Year 1, Sei	nester 1		
EEP101	Algorithms for Control Engineering	12	3
Select one	unit from the following:		
	Unix & C for Engineers	12 12	3 3
Year 1, Sen	nester 2		
EEP104	Real-time Operating Systems	12	3
Select one	unit from the following:		

EEP120 EEP127	Networks & Distributed Computing Advanced Topic B	12 12	3
Year 2, Ser	mester 1		
EEP124	Data Communications	12	3
EEP129	Image Processing & Computer Vision	12	3
Year 2, Se	mester 2	12	1
EEP301 Pro	earch Component 1	12	1
EEF JUZ Kes	earch Component 1	12	
COMMUNI	CATION ENGINEERING STREAM		
Full-Time	Course Structures		
Year 1, Sen	mester 1		
EEP126	Communications Digital Signal Processing	12	3
EEP135	Advanced Digital Signal Processing	12	3
EEP137	Advanced Topic A	12	3 3 3
	Mathematics Elective Unit	12	3
Voor 1 Co.	magtan 1		
Year 1, Ser		12	2
EEP127	Advanced Topic B	12	3
EEP128 EEP301	Detection & Estimation	12	3 3 3
EEP303	Project Research Component 2	12	3
	•	12	
Part-Time	Course Structure		
Year 1, Se	mester 1		
EEP126	Communications Digital Signal Processing	12	3
EEP135	Advanced Digital Signal Processing	12	3 3
Woon 1 Co.	magtan 1		
Year 1, Ser EEP127		12	2
EEP127 EEP128	Advanced Topic B Detection & Estimation	12	3
EEF 120	Detection & Estimation	12	3
Year 2, Se	mester 1		
EEP137	Advanced Topic A	12	3
	Mathematics Elective Unit	12	3
Year 2, Se	mester 2		
EEP301	Project	12	1
EEP303	Research Component 2	12	•
	The state of the s		

Advanced Topics A and B Subject List

Advanced Topics will vary from year to year depending on staff areas of interest. They may include topics from the following list. Only one of these units will be offered per semester. Other units at a suitable academic level may be substituted, with the approval of the Course Coordinator.

Adaptive Filtering & Array Processing Digital Spectral Analysis Stochastic Processes Parallel & Supercomputing Advanced Engineering Software Tools Process Control & Robotics Computer Hardware & Interfacing Any core unit of other stream

■ Master of Engineering Science (Electricity Supply Engineering) (EE78)

Locatiou: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$142 per credit point for day/evening classes (fees for short-courses and resource-based learning units available on application to School of Electrical and Electronic Systems Engineering) plus a \$1000 thesis supervision charge

Course Coordinator: Mr David Birtwhistle

Entry requirements

- (i) a Bachelor degree in Electrical Engineering and at least second class Honours with a study of power subjects to third year level, or
- (ii) students with the degree qualification, but who do not have second class Honours may transfer from the Graduate Diploma (Electricity Supply) after completing 48 credit points with a grade point average (GPA) of 5.0 or greater
- (iii) students seeking admission to Master of Engineering Science will only be enrolled if they have a firm offer of a supervised industry placement.

Full-time course structure		Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
	12 Units (selected from List 1)	48	12
Year 1, Se	mester 2		
EEP230	Thesis A ⁵	12	3
EEP231	Thesis B ⁵	12	3 3 6
	6 Units (selected from List 1)	24	6
Part-time	course structure		
Year 1, Semester 1			
·	6 Units (selected from List 1)	24	6
Year 1, Se	mester 2		
	6 Units (selected from List 1)	24	6
Year 2, Se	mester 1		
EEP230	Thesis A ⁵	12	3 3
	3 Units (selected from List 1)	12	3
Year 2, Semester 2			
EEP231	Thesis B ⁵	12	3 3
	3 Units (selected from List 1)	12	3

List 1: Units		Weeks	Credit Points	Contact Hrs/Wk
Semester 1				
EEP201	Fundamentals of Power System Earthing	1-5	4	3
EEP202	Thermal Ratings & Heat Transfer	1-5	4	3
EEP204	Power System Load Flow Analysis	1-5	4	3
EEP213	Statistics	1-5	4	3
EEP240	Organisation and Financial Management in the Electricity Supply Industry	1-5	4	3
EEP203	Testing & Condition Monitoring	6-10	4	3
EEP205	Power System Fault Calculations	6-10	4	3
EEP208	Economic Analysis for Power Systems			
	Engineers	6-10	4	3
EEP210	Abnormal System Voltages	6-10	4	3
EEP247	Introduction to Plant Control in Industry			
	& Power Generation	6-10	4	3

⁵ Students must complete 100 days of supervised professional practice. The thesis is related to this industry experience.

EEP206 EEP209	Project Management Power System Harmonics	11-15 11-15	4 4	3
EEP218	Introduction to Automated System Control and Supervisory Systems (SCADA)	11-15	4	3
EEP219	High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3
EEP243	Contract Administration	11-15	4	3
Semester 2				
EEP207	Overhead Line Route Selection -			
	Environmental Factors	1-5	4	3 3 3 3
EEP211	Basic Power System Protection	1-5	4	3
EEP215	Reliability	1-5	4 4	3
EEP221	Limits to Power System Stbility	1-5		3
EEP244	Circuit Breakers - Switchgear	1-5	4	3
EEP212 EEP214	Advanced Power System Protection Risk Assessment in the Electricity	6-10	4	3
	Supply Industry	6-10	4	3
EEP216	Overhead Line Design – Electrical	6-10	4	3 3 3
EEP223	Load Forecasting	6-10	4	3
EEP245	Introduction to Substation Design	6-10	4	3
EEP217	Overhead Line Design - Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3 3 3
EEP224	Power System Operation	11-15	4	3
EEP242	Efficient Marketing and Utilisation of			
	Electricity: Demand and Supply	11 15	4	2
	Side Solutions	11-15	4	3

Units available as Resource-based Learning (i.e. Distance Education) with flexible enrolment.

		Credit Points	Hours of Study
EEP202	Thermal Ratings and Heat Transfer	4	45
EEP208	Economic Analysis for Power System Engineers	4	45
EEP209	Power System Harmonics	4	45
EEP210	Abnormal System Voltages	4	45
EEP211	Basic Power System Protection	4	45
EEP212	Advanced Power System Protection	4	45
EEP213	Statistics	4	45
EEP214	Risk Management in the Electricity Supply Industry	4	45
EEP215	Reliability	4	45
EEP217	Overhead Line Design – Mechanical	4	45
EEP220	Distribution Planning	4	45

Units in this course have been accepted by industry as approved training modules. Credit points may be accumulated towards this award from day/evening classes (3 hours per week x 5 weeks), flexible enrolment in Resource-based Learning (i.e. Distance Education) units or from studies taken as short-courses (conducted in June/July and November/December). Further information on units available as Resource-based Learning or short-courses can be obtained by contacting the School of Electrical and Electronic Systems Engineering on (07) 3864 1632.

■ Master of Engineering Science (Engineering Management) (ME76)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Elias Siores

A similar course (ME77) is also offered in Singapore in conjunction with Crossfields Asia Pacific Pty Ltd.

Entry Requirements

A Bachelors degree in Engineering (or its equivalent).

Part-time students are expected to be employed in some professional engineering capacity during the day and to carry out their QUT studies at night.

Credit	Contact
Points	Hrs/Wk
12	3
12	3
12	3
12	3
12	3
	-
12	3
12	3
12	3
12	3
12	3
	C
12	3
12	3
12	3
12	3
12	3
12	3
12	3
12	3
12	3
12	3
	Points 12 12 12 12 12 12 12 12 12 12 12 12 12

■ Master of Engineering Science (Engineering Management) (ME77) – Singapore

Location: Singapore (Organised by Crossfields Asia Pacific Pty Ltd)

Students must take MEN190/1 and MEN190/2 unless they obtain the permission of the Head of School, Mechanical and Manufacturing Engineering, not to do so.

Aim

The aim of the course is to provide engineers with an introduction to management methods and systems of key relevance to the engineering profession. Particular emphasis is given to manufacturing management and technology; and to maintenance, quality and reliability.

Course Outline

The course consists of eight units, of which two are project units and six are coursework units. The coursework units are offered on a block basis. Each block occupies two weeks with lectures each evening Monday to Friday.

For further information about the course, please contact Professor Nick Hastings on (07) 3864 2409.

■ Master of Landscape Architecture (PS71)⁷

Location: Gardens Point campus

Course Duration: 2 years full-time (excluding any Masters Qualifying Units)

Total Credit Points: 228 (excluding any Masters Qualifying Units)

Standard Credit Points/Full-time Semester:

Semesters 1, 2 & 5: 48

Semesters 3 & 4: 54 minimum, 64 maximum

Course Coordinator: To be advised

Entry Requirements:

To be eligible for normal admission an applicant must:

- (i) hold a degree requiring at least three years' full-time (or its equivalent) study and completed with a Grade Point Average of at least 5.0 on a seven-point scale; or
- (ii) other documented qualifications and experience considered as equivalent by the Head of School; and, in addition but not necessarily before applying for admission, minimum knowledge and skills in design principles, freehand graphics, technical drawing and computer literacy as set out in the relevant Coursebook equivalent to a matriculation level in appropriate subject area or demonstrated equivalent approved by the Head of School.

Graduates of the Bachelor of Built Environment (Landscape Architecture) considered eligible for direct entry under the above criteria will be granted block credit for the first 96 credit points of the course on admission.

Professional Recognition

Professional accreditation for the course has been sought from the Australian Institute of Landscape Architects.

Full-Time Course Structure Year 1, Semester 1		Credit Points	Contact Hrs/Wk
		ŧ	
PSP020	Landscape Studies 1	12	6
PSP021	Landscape Studies 2	12	7
PSP212	User & Character Design Studies	12	6
PSP251	Landscape Construction 1	12	4

Subject to University approval of award title.

Year 1, Se	omester 2		
PSP022	Landscape Studies 3	12	4
PSP023	Landscape Studies 4	12	5
PSP213	Site Planning Landscape Construction 2	12 12	4 3
PSP252	Landscape Construction 2	12	J
Year 2, So		10	
PSP024 PSP025	Advanced Landscape Studies 1 Advanced Landscape Studies 2	12 12	6 4
PSP214	Residential Landscape Design	12	3
PSP215	Urban Landscape Design	12	3
Year 2, Se	emester 2		
PSP026	Advanced Landscape Studies 3	12	7 3
PSN211	Research Project 18	12	3 3
PSN213	Specialisation ⁸	12	3
	emester 1 (or 2)	10	2
PSN212 PSN214	Research Project 28 Electives8	12 12	3 3
=			_
	nts upgrading an existing Professional qualification th		
	g Units are required (credit in all or part maybe granted a	t the discre	etion of the
Head of S	,		
PSN207	Preparatory Specialisation 18	12	3 3 3
PSN208 PSN209	Preparatory Specialisation 2 ⁸ Preparatory Electives 1 ⁸	12 12	3
PSN210	Preparatory Electives 28	12	3
Part-Tim	e Course Structure		
Year 1 Se			
PSP020	Landscape Studies 1	12	6
PSP251	Landscape Construction 1	12	4
Year 1 Se	mester 2		
PSP022	Landscape Studies 3	12	4
PSP252	Landscape Construction 2	12	3
Year 2 Se	mester 1		
PSP021	Landscape Studies 2	12	7
PSP212	User & Character Design Studies	12	6
Year 2 Se			
PSP023	Landscape Studies 4	12	5
PSP213	Site Planning	12	4
Year 3 Se		10	,
PSP024 PSP214	Advanced Landscape Studies 1	12 12	6 3
	Residential Landscape Design	12	3
Year 3 Se PSP026		12	7
PSP026 PSP216	Advanced Landscape Studies 3 Landscape Planning	12	4
Year 4 Se	· -		•
PSP025	Advanced Landscape Studies 2	12	4
PSP215	Urban Landscape Design	12	3
Year 4 Se			
PSP027	Advanced Landscape Studies 4	12	3

⁸ Contact time allocations for these units are nominal only.

BUILT ENVIRONMENT & ENCINEEDING

Masters Level Units Year 1 Semester 1

PSN211 PSN213	Research Project 1 Specialisation	12 12	3
Year 1 Se	emester 2		
PSN212	Research Project 29	12	3
DCM214	Flectives9	12	- 2

For students upgrading an existing Professional qualification the following Masters Qualifying Units are required (credit in all or part may be granted at the discretion of the Head of School).

PSN207	Preparatory Specialisation 19	12	3
PSN208	Preparatory Specialisation 29	12	3
PSN209	Preparatory Electives 19	12	3
PSN210	Preparatory Electives 29	12	3

■ Master of Project Management (CN77)

Similar courses are offered in Singapore (CN78) and Kuala Lumpur (CN79).

Location: Gardens Point campus

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Master of Project Management who are graduates of the Graduate Diploma in Project Management will be required to complete CNN441 (one semester full-time) or CNN442 (two semesters part-time).

Entry Requirements

Applicants for admission shall hold:

- (i) an approved Bachelor degree and demonstrated potential in professional activity to undertake a Masters degree course, or
- (ii) a Bachelor degree and a relevant graduate diploma or qualifying program with a grade point average of 5.0 or better, or
- (iii) qualifications deemed equivalent to (i) or (ii) by the Dean of Faculty on the recommendation of the Course Coordinator, and
- (iv) shall normally have at least three years of appropriate industry experience after graduation.

As the coursework components of the Graduate Diploma in Project Management and the Master of Project Management are identical, students may transfer from the Graduate Diploma to the Masters degree program providing that they have a grade point average of 5.0 or better and quota places are available. Students are normally required to apply for transfer at the completion of a minimum of one semester (48 credit points) of the Graduate Diploma.

At the completion of the coursework component of the Masters degree program but before the completion of the Dissertation, students have the option of electing to graduate with the Graduate Diploma in Project Management.

⁹ Contact time allocations for these units are nominal only.

The Graduate Diploma in Project Management has majors in Project Management and Property Development. These areas are also available as majors within the Masters degree program.

Note: Whilst the unit CNN441 (or CNN442) Dissertation incorporates the unit IFN001 Advanced Information Retrieval Skills, it is recommended that IFN001 be completed prior to the commencement of the Masters degree program or as early in the first semester as possible. The credit point value of IFN001 is incorporated in the credit point value of CNN441 (or CNN442).

All units shown are compulsory core units. Twelve credit point subjects are to be undertaken as two consecutive semesters of study. They cannot be undertaken as one-semester units. Students may undertake additional elective units or replace core units for which credit has been formally approved with other units available throughout the University. These units should be offered at a postgraduate level, or in some cases, at an advanced undergraduate level. Variations to the recommended study program require prior approval from the Course Coordinator.

School electives are offered subject to an appropriate enrolment in each semester.

PROJECT MANAGEMENT MAJOR

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNP426/1 CNP429 CNP430/1 CNP431/1 CNP433/1 CNP434 CNP437	Project Development Cost Management & Economics Current Issues Project Management Project Management Law Time Management Field Trip Two electives selected from List A	6 6 6 6 6 6 12	2 2 2 2 2 2 2 4 days
Year 1, Se	mester 2		
CNP406 CNP426/2 CNP430/2 CNP431/2 CNP433/2	International Project Management Project Development	6 6 6 6 12	2 2 2 2 2 2
Year 2, Se CNN441	mester 1 Dissertation	48	4
Part-Time	Course Structure		
Year 1, Second 29 CNP431/1 CNP434 CNP437	mester 1 Cost Management & Economics Project Management Time Management Field Trip An elective unit selected from List A	6 6 6 6	2 2 2 4 days 2
Year 1, Se CNP406 CNP431/2	mester 2 International Project Management Project Management An elective unit selected from List B	6 6 6	2 2 2
Year 2, Se CNP426/1 CNP430/1 CNP433/1	Project Development	6 6 6 6	2 2 2

Year 2, Se	mester 2		
	Project Development	6	2 2
CNP430/2	Current Issues	6	2
CNP433/2	Project Management Law An elective unit selected from List B	6 6	2
		U	
Year 3, Se		24	2
	Dissertation	24	Z
Year 3, Se		0.1	0
	Dissertation	24	2
	mester 1 Elective Units		
CNP400 CNP402	Management of Technology Principles of Valuation	6 6	2
CNP402 CNP403	Property Maintenance & Asset Management	6	2
CNP417	Design Management	6	2 2 2 2 2
CNP439	Property Management	6	2
List B: Ser	mester 2 Elective Units		
CNP404	Advanced Land Development	6	2
CNP422	Specialist Valuation	6 6	2 2
CNP667	Applied Computing	U	2
PROPERTY	Y DEVELOPMENT MAJOR		
Full-Time	Course Structure		
Year 1, Se	mester 1		
CNP402	Principles of Valuation	6	2
CNP426/1	Project Development	6	2
CNP430/1 CNP431/1	Current Issues Project Management	6 6	2 2
CNP433/1	Project Management Law	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2
	Two electives selected from List C	12	4
Year 1, Se			•
CNP426/2 CNP430/2	Project Development Current Issues	6 6	2
CNP431/2	Project Management	6	2 2 2
CNP433/2	Project Management Law	6	
CNP438	Real Estate Investment Analysis	6	2
	Two electives selected from List D	12	4
Year 2, Se		40	
CNN441	Dissertation	48	
Part-Time	e Course Structure		
Year 1, Se	mester 1		
CNP402	Principles of Valuation	6	2
CNP426/1 CNP431/1	Project Development	6 6	2 2
CNP431/1 CNP437	Project Management Field Trip	6	4 days
	An elective unit selected from List C	6	2
Year 1, Se	emester 2		
CNP426/2	Project Development	6	2 2
CNP431/2	Project Management	6 6	2 2
CNP438	Real Estate Investment Analysis	Ö	Z
Year 2, Se		,	2
CNP430/1 CNP433/1	Current Issues Project Management Law	6 6	2 2
CNP439	Property Management	6	2 2 2
	An elective unit selected from List C	6	2

	mester 2 Current Issues Project Management Law Two electives selected from List D	6 6 12	2 2 4
Year 3, Ser CNN442/1	mester 1 Dissertation	24	2
Year 3, Ser CNN442/2	mester 2 Dissertation	24	2
List C: Ser	mester 1 Elective Units		
CNP400	Management of Technology	6	2
CNP403	Property Maintenance & Asset Management	6	2 2 2 2 2
CNP417	Design Management	6	2
CNP429	Cost Management & Economics	6	2
CNP434	Time Management	6	2
List D: Ser	mester 2 Elective Units		
CNP404	Advanced Land Development	6	2
CNP406	International Project Management	6	
CNP422	Specialist Valuation	6	2 2 2
CNP667	Applied Computing	6	2

■ Master of Project Management (CN78) – Singapore

Location: Sumbershire Management Consultants Pte Ltd, Singapore

Aim

The course aims to provide professionals with a high level of conceptual understanding of project management. Depending on the specialisation in project management or property development, study can be divided into areas of applied management, legal studies, economics, integrative studies and research.

Course Outline

The study has coursework and research components. The coursework consists of eight structured units covering project development, project management, current issues and investment analysis. Students then undertake individual research in an approved area of specialty. Identification of and solutions to practical problems are emphasised both in the study and research components.

For further information on the course, please contact Dr Jay Yang on (07) 3864 1028.

■ Master of Project Management (CN79) – Kuala Lumpur

Location: Amset (M) Sdn Bhd, Kuala Lumpur

Aim

The course aims to provide professionals with a high level of conceptual understanding of project management. Depending on the specialisation in project management or property development, study can be divided into areas of applied management, legal studies, economics, integrative studies and research.

Course Outline

The study has coursework and research components. The coursework consists of eight structured units covering project development, project management, current issues and investment analysis. Students then undertake individual research in an approved area of

specialty. Identification of and solutions to practical problems are emphasised both in the study and research components.

For further information on the course, please contact Dr Jay Yang on (07) 3864 1028.

■ Master of Urban and Regional Planning (PS70)¹⁰

Location: Gardens Point campus

Course Duration: Four semesters full-time or eight semesters part-time

Total Credit Points:192

Standard credit points per full-time semester: 48

Course Coordinator: To be advised

Entry Requirements:

To be eligible for consideration for direct entry into the course an applicant must have either:

- (i) a recognised tertiary degree requiring at least three years' full-time study (or its equivalent), or
- (ii) other documented qualifications and experience considered to be equivalent by the Head of School. Applicants may be required to attend an interview, or sit an examination, where appropriate as part of the selection process.

A graduate of the modified Graduate Diploma in Urban and Regional Planning (offered from 1996) may apply to enrol in the Master of Urban and Regional Planning and if accepted will be given credit for Modules A, B and C.

Graduates who completed the Graduate Diploma in Urban and Regional Planning before 1996 will be allowed credit for the new Graduate Diploma in Urban and Regional Planning to enter the Masters program, depending on their grade point average, work experience and length of time which has elapsed since graduation. Such graduates may be required to complete units in the new Graduate Diploma in Urban and Regional Planning. Each case will be treated on its individual merits and will be decided by the Head of School in consultation with the graduate concerned and staff.

Full-Time Course Structure

The program is being offered with entry at the start of the year, and from 1997 also through a mid-year (second semester) entry. Students must complete four modules to complete the Masters Degree. Each module is worth 48 credit points, equivalent to one semester full-time or two semesters part-time. Modules may be offered in either first or second semester.

		Credit Points	Contact Hrs/Wk
Module A PSP501 PSP502 PSP503 PSP504	Environmental Planning & Assessment Economic & Social Foundations of Planning Planning & Research Methods Urban Systems & Infrastructure	12 12 12 12	3 3 3 3
Module B PSP505 PSP506	Planning in Society Planning Theory & Ethics	12 12	3 3

¹⁰ Subject to University approval of award title.

PSP507 PSP508 PSP513	Planning Procedures & Law Planning Practice I Field Trip ¹¹	12 12 0	3 3 1 week
Module C PSP509 PSP510 PSN211 PSP512 PSP513	Regional & Metropolitan Policy Specialisation Research Project I & Advanced Research Methods Planning Practice II Field Trip ¹¹	12 12 12 12 0	3 3 3 3 1 week
Module D PSN214 PSN221 PSN212 PSN223	Elective Advanced Specialisation Research Project II Special Topics in Planning Methods	12 12 12 12	3 3 3 3
	Course Structure		
Module A PSP501 PSP503	I Environmental Planning & Assessment Planning & Research Methods	12 12	3 3
Module A: PSP504 PSP502	Urban Systems & Infrastructure Economic & Social Foundations of Planning	12 12	3 3
Module B PSP505 PSP506	I Planning in Society Planning Theory & Ethics	12 12	3 3
Module B: PSP507 PSP508 PSP513	Planning Procedures & Law Planning Practice I Field Trip ¹¹	12 12 0	3 3 1 week
Module C PSP509 PSP512	1 Regional & Metropolitan Policy Planning Practice I	12 12	3
Module C PSP510 PSP211 PSP513	Specialisation Research Project I & Advanced Research Methods Field Trip ¹¹	12 12 0	3 3 1 week
Module D PSN221 PSN214	1 Advanced Specialisation Elective	12 12	3 3
Module D PSN212 PSN223	2 Research Project II Special Topics in Planning Method	12 12	3 3

Notes

PSP510 Specialisation and PSN221 Advanced Specialisation offer specialisations in local and regional development, urban housing and community development, urban design and environmental and resource planning. Other special topics may be offered depending on staff availability.

PSN214 Elective allows students to choose an elective subject worth 12 credit points from elsewhere in QUT or at another tertiary institution, subject to approval of the Course Coordinator.

¹¹ Alternative module locations for a single week-long field trip.

ENVIRONMENT & ENGINEERING

■ Graduate Diploma in Computer Engineering (EE65)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Anthony Maeder

Entry Requirements

Applicants must hold a Bachelors degree in Engineering or Computer Science. Applicants possessing a degree in other areas of technology such as Mathematics, Physics or Chemistry may be required to undertake prerequisite undergraduate units.

Course St	ructure	Credit Points	Contact Hrs/Wk
Year 1, Se EEP101 EEP102 EEP124 EEP129	mester 1 Algorithms for Control Engineering Unix & C for Engineers Data Communications Image Processing & Computer Vision	12 12 12 12	3 3 3 3
Year 1, Se EEP103 EEP104 EEP120 EEP123	mester 2 Computer Hardware & Interfacing Real-time Operating Systems Networks & Distributed Computing Process Control & Robotics	12 12 12 12	3 3 3 3
Part-Time	Course Structure		
Year 1, Se EEP101 EEP102	Algorithms for Control Engineering	12 12	3 3
Year 1, Se EEP103 EEP104	mester 2 Computer Hardware & Interfacing Real-time Operating Systems	12 12	3 3
Year 2, Se EEP124 EEP129	mester 1 Data Communications Image Processing & Computer Vision	12 12	3 3
Year 2, Se EEP120 EEP123	mester 2 Networks & Distributed Computing Process Control & Robotics	12 12	3 3

■ Graduate Diploma in Electricity Supply Engineering (EE60)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$142 per credit point for day/evening classes (fees for short-courses and resource-based learning units available on application to School of Electrical and Electronic Systems Engineering)

Course Coordinator: Mr David Birtwhistle

Entry requirements

A Bachelor degree in Electrical Engineering with a study of power subjects to third-year level.

Full-Time (Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Sen	nester 1 12 Units (selected from List 1)		48	12
Year 1, Sen	nester 2 12 Units (selected from List 1)		48	12
Part-time c	ourse structure			
Year 1, Sen	nester 1 6 Units (selected from List 1)		24	6
Year 1, Sen	nester 2 6 Units (selected from List 1)		24	6
Year 2, Sen	nester 1 6 Units (selected from List 1)		24	6
Year 2, Sen	nester 2 6 Units (selected from List 1)		24	6
List 1: Unit	ts	Weeks	Credit Points	Contact Hrs/Wk
Semester 1				
	Fundamentals of Dayton System Torthing	1.5	4	2
EEP201	Fundamentals of Power System Earthing	1-5		3 3
EEP202	Thermal Ratings & Heat Transfer	1-5	4	2
EEP204	Power System Load Flow Analysis	1-5	4	3
EEP213	Statistics	1-5	4	3
EEP240	Organisation and Financial Management in the Electricity Supply Industry	1-5	4	3
EEP203	Testing & Condition Monitoring	6-10	4	3
EEP205	Power System Fault Calculations	6-10	4	3
EEP208	Economic Analysis for Power Systems	0 10		•
DDI 200	Engineers	6-10	4	3
EEP210		6-10	4	3
	Abnormal System Voltages	0-10	7	3
EEP247	Introduction to Plant Control in Industry and Power Generation	6 10	4	3
	and Power Generation	6-10	4	3
EEP206	Project Management	11-15	4	3
EEP209	Power System Harmonics	11-15	4	3
EEP218	Introduction to Automated System			
	Control & Supervisory Systems	11-15	4	3
EEP219	High Voltage Substation Equipment,			
	Power Transformers & Reactive Power Plant	11-15	4	3
EEP243	Contract Administration	11-15	4	3
G 4 4				
Semester 2				
EEP207	Overhead Line Route Selection –			_
	Environmental Factors	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3 3 3
EEP215	Reliability	1-5	4	3
EEP221	Limits to Power System Stability	1-5	4	3
EEP244	Circuit Breakers – Switchgear	1-5	4	3
EEP212	Advanced Power System Protection	6-10	4	3
EEF212 EEP214	Risk Assessment in the Electricity	0-10	7	J
1313F Z 14	Supply Industry	6-10	4	3
PPD216			-	3
EEP216	Overhead Line Design – Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP245	Introduction to Substation Design	6-10	4	3

EEP217	Overhead Line Design - Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3
EEP242	Efficient Marketing and Utilisation of			
	Electricity: Demand and Supply Side			
	Solutions	11-15	4	3

Units available as Resource-based Learning (i.e. Distance Education) with flexible enrolment:

		Credit Points	Hours of Study
EEP202	Thermal Ratings and Heat Transfer	4	45
EEP208	Economic Analysis for Power System Engineers	4	45
EEP209	Power System Harmonics	4	45
EEP210	Abnormal System Voltages	4	45
EEP211	Basic Power System Protection	4	45
EEP212	Advanced Power System Protection	4	45
EEP213	Statistics	4	45
EEP214	Risk Management in the Electricity Supply Industry	4	45
EEP215	Reliability	4	45
EEP217	Overhead Line Design – Mechanical	4	45
EEP220	Distribution Planning	4	45

Units in this course have been accepted by industry as approved training modules.

Credit points may be accumulated towards this award from day/evening classes (3 hours per week x 5 weeks), flexible enrolment in Resource-based Learning (i.e. Distance Education) units or from studies taken as short-courses (conducted in June/July and November/December). Further information on units available as Resource-based Learning or short-courses can be obtained by contacting the School of Electrical and Electronic Systems Engineering on (07) 3864 1632.

■ Graduate Diploma in Industrial Design (AR61)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Vesna Popovic

Entry Requirements

To be eligible for admission, an applicant must:

- hold an approved degree or diploma from a recognised tertiary institution; or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Industrial Design has been accredited by the Design Institute of Australia (DIA). Graduates are eligible for Associate membership on graduation.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester	·1		
ARP613	Advanced Ergonomics 1	6	2
ARP670	Elective A	6	2
ARP672	Industrial Design 1	12	6

ARP674 ARP676	Industrial Design Research 1 Advanced Computer-aided Industrial Design 1	18 6	8 2
Semester	2		
ARP623	Advanced Ergonomics 2	6	2
ARP654	Professional Practice and Management	6	2 2 6 8 2
ARP673	Industrial Design 2	12	6
ARP675	Industrial Design Research 2	18	8
ARP677	Advanced Computer-aided Industrial Design 2	6	2
Part-Time	e Course Structure		
Year 1, Se	emester 1		
ARP613	Advanced Ergonomics 1	6	2
ARP672		12	2 6 2
ARP676	Advanced Computer-aided Industrial Design 1	6	2
Year 1, Se	emester 2		
ARP623	Advanced Ergonomics 2	6	2
ARP673	Industrial Design 2	12	2 6
ARP677	Advanced Computer-aided Industrial Design 2	6	2
Year 2, Se	emester 1		
ARP670	Elective A	6	2
ARP674	Industrial Design Research 1	18	2 8
Year 2, Se	emester 2		
ARP654	Professional Practice and Management	6	2
ARP675	Industrial Design Research 2	18	8

Elective Units

All electives undertaken must have the prior approval of the Course Coordinator.

■ Graduate Diploma in Interior Design (AR62)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Interior Design has been accredited by the Design Institute of Australia.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester	1		
ARP502	Advanced Interior Design 1	18	6
ARP508	Professional Studies 1	18	6
ARP606	Elective 1	6	2
ARP608	Theory & Criticism	6	2

Semester 2	2		
ARP503 ARP604 ARP605 ARP607	Advanced Interior Design 2 Conservation of Historic Interiors Professional Studies 2 Elective 2	18 18 6 6	6 6 2 2
Part-Time	Course Structure		
Year 1, Ser ARP502 ARP606	mester 1 Advanced Interior Design 1 Elective 1	18 6	6 2
	mester 2 Advanced Interior Design 2 Elective 2	18 6	6 2
Year 2, Ser ARP508 ARP608		18 6	6 2
Year 2, Ser ARP604 ARP605		18 6	6 2

Elective Units

All electives undertaken must have prior approval of the Course Coordinator.

■ Graduate Diploma in Landscape Architecture (PS66)

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-time semester: 48

Course Coordinator: To be advised

Entry Requirements

To be eligible for normal admission, an applicant must:

- (i) hold a degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by a course of study or examination.

Special entry provisions also apply. Prior to beginning studies in the course (but not necessarily prior to application for admission) applicants are required to have appropriate skills and knowledge in basic design/perception, free-hand graphics, and technical drawing.

Graduates of the Bachelor of Built Environment (Landscape Architecture) are credited with Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds may be granted credit as appropriate to their education and experience.

Professional Recognition

The Graduate Diploma in Landscape Architecture is accredited by the Autralian Institute of Landscape Architects.

Full-Time Course Structure Credit Points		Contact Hrs/Wk	
Year 1, Se	emester 1		
PSP020	Landscape Studies 1	12	6
PSP021	Landscape Studies 2	12	7

PSP212 PSP251	User & Character Design Studies Landscape Construction 1	12 12	6 4
Year 1, Se	mester 2		
PSP022	Landscape Studies 3	12	4
PSP023	Landscape Studies 4	12	5
PSP213	Site Planning	12	4
PSP252	Landscape Construction 2	12	3
		12	-
Year 2, Se	emester 1		
PSP024	Advanced Landscape Studies 1	12	6
PSP025	Advanced Landscape Studies 2	12	4
PSP214	Residential Landscape Design	12	3
PSP215	Urban Landscape Design	12	3
Year 2, Se	mester 2		
PSP026	Advanced Landscape Studies 3	12	7
PSP027	Advanced Landscape Studies 4	12	3
PSP216	Landscape Planning	12	4
PSP219	Advanced Landscape Design	12	4
1 01 217	Advanced Landscape Design	12	
Part-Time	e Course Structure		
Year 1 Sea	mester 1		
PSP020	Landscape Studies 1	12	6
PSP251	Landscape Construction 1	12	4
Year 1 Ser			
		10	
PSP022	Landscape Studies 3	12	4
PSP252	Landscape Construction 2	12	3
Year 2 Sea	mester 1		
PSP021	Landscape Studies 2	12	7
PSP212	User & Character Design Studies	12	6
Voor 1 Co			
Year 2 Ser		10	_
PSP023	Landscape Studies 4	12	5
PSP213	Site Planning	12	4
Year 3 Ser	mester 1		
PSP024	Advanced Landscape Studies 1	12	6
PSP214	Residential Landscape Design	12	3
Voor 2 Co			
Year 3 Ser		10	-
PSP026	Advanced Landscape Studies 3	12	7
PSP216	Landscape Planning	12	4
Year 4 Sea	mester 1		
PSP025	Advanced Landscape Studies 2	12	4
PSP215	Urban Landscape Design	12	3
- -		- -	_
Year 4 Se			_
PSP027	Advanced Landscape Studies 4	12	3
PSP219	Advanced Landscape Design	12	4

■ Graduate Diploma in Municipal Engineering (CE63)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Dr Luis Ferreira

Entry Requirements

To be eligible for admission an applicant must hold an acceptable degree or diploma in engineering from a recognised institution.

Applicants who do not meet the requirements for normal entry but who hold a degree or diploma in a scientific or technological field or other equivalent qualifications or hold professional engineering recognition may be required to complete such prerequisite engineering units as may be determined by the Head of the School of Civil Engineering prior to enrolment in the course.

Course Structure

The course has four majors. It consists of 40 credit points (10 semester hours) of core material common to all majors and a minimum of 56 credit points (14 semester hours) of material prescribed for majors. The majority of the units are common with the Master of Engineering Science (Civil) (CE74).

Students may transfer from the Graduate Diploma in Municipal Engineering to the Master of Engineering Science (Civil). For further details on the transfer arrangement refer to the Master of Engineering (Civil) entry in this Handbook.

Students who do not wish to undertake a major must complete the core units plus any combination of units from the majors totalling at least 56 credit points. Programs should be devised in consultation with the Course Coordinator.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed 'Majoring in...'.

Course Str	ructure – All Majors	C	Credit Points	Contact Hrs/Wk
Year 1, Ser	nester 1			
CEP128 CEP131	Municipal Engineering Planning (offered eve Engineering Management & Administration	en years) ¹²	12 12	3 3
Year 1, Ser CEP200 CEP361	nester 2 Process Modelling Drainage Engineering (offered odd years) ¹² Unit chosen from major		8 8 8	2 2
Year 2, Ser	nester 1 Units chosen from major		24	
Year 2, Ser	nester 2			
ŕ	Units chosen from major		24	
		Year and Semester of Offer	Credit Points	Contact Hrs/Wk
ENVIRONM	IENTAL ENGINEERING MAJOR (EVN)			
CEP172 CEP174 CEP276 CEP277 CEP290 CHP691	Water Quality Engineering Public Health Engineering Practice Advanced Treatment Processes Waste Management Environmental Law & Assessment ¹³ Environmental Chemistry	even, 1 odd, 1 odd, 2 even, 2 odd, 2 even, 2	8 12 8 12 8	2 3 2 3 2 2

¹² In years that these units are not available, students take units from their chosen major and complete these units in the following year.

¹³ CEP290 Environmental Law and Assessment may be offered in even years, semester 2, in conjunction with a Bachelor of Engineering elective unit.

CEP107	Construction Management & Economics	odd, 1	8	2 2 3 3
CEP109	Municipal Law & Regulations	even, 2	8	2
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP174	Public Health Engineering Practice	odd, 1	12	3
Plus units	totalling at least 16 credit points from any	other major.	4	
PUBLIC H	EALTH ENGINEERING MAJOR (PHN)			
CEP172	Water Quality Engineering	even, 1	8	2 3 2 3
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3
Plus units	totalling at least 16 credit points from any	y other major.	4	
TRANSPO	RTATION ENGINEERING MAJOR (TRN)			
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP215	Advanced Traffic Engineering	odd, 2	8	3 2 3 2
CEP218	Transportation Engineering	even, 1	12	3
	Urban Transportation Planning		8	

Plus units totalling at least 16 credit points from any other major.¹⁴

■ Graduate Diploma in Project Management (CN64)

Similar courses are offered in Singapore (CN65) and Kuala Lumpur (CN66).

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Entry Requirements

To be eligible for admission an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination,
 and
- (iii) have a minimum of three years' relevant experience after graduation.
- (iv) Special entry at the discretion of the Course Coordinator may be granted where an equivalent course of study or examination cannot be readily established. This may involve a qualifying examination.

The Graduate Diploma in Project Management has majors in Project Management and Property Development. These areas are also available as majors within the Masters degree program.

Note: It is strongly recommended that all graduate diploma students complete the unit IFN001 Advanced Information Retrieval Skills before commencing the course or early in Semester 1. The credit points of this unit will not be included in the total credit points which must be completed for the award of the Graduate Diploma.

¹⁴ Includes CEP491 Municipal Engineering Practice (16 credit points and 4 contact hours) which is available in any semester.

All units shown are compulsory core units. Twelve credit point units are to be undertaken as two consecutive semesters of study. They cannot be undertaken as one semester units. Students may undertake additional elective units or replace core units for which credit has been formally approved with other units available throughout the University. These units should be offered at a postgraduate level, or in some cases, at an advanced undergraduate level. Variations to the recommended study program require prior approval from the Course Coordinator.

School electives are offered subject to an appropriate enrolment in each semester.

PROJECT MANAGEMENT MAJOR

Course Structure	Credi Point	
Project Development Cost Management & Economics Current Issues Project Management Project Management Law	6 6 6 6	2 2 2 2 2 2 2
Field Trip Two electives selected from List A	6 12	4 days
International Project Management Project Development Current Issues	6 6 6 6 12	2 2 2 2 2
Course Structure		
mester 1 Cost Management & Economics Project Management Time Management Field Trip An elective unit selected from List A	6 6 6 6	2 2 2 4 days
mester 2 International Project Management Project Management An elective unit selected from List B	6 6 6	2 2 2
	6 6 6 6	2 2 2 2 2
Project Development	6 6 6 6	2 2 2 2 2
Management of Technology Principles of Valuation Property Maintenance & Asset Management Design Management	6 6 6 6	2 2 2 2 2 2
	Cost Management & Economics Current Issues Project Management Project Management Law Time Management Field Trip Two electives selected from List A International Project Management Project Development Current Issues Project Management Law Two electives selected from List B Course Structure mester 1 Cost Management Time Management Time Management Field Trip An elective unit selected from List A mester 2 International Project Management Project Management An elective unit selected from List B mester 1 Project Development Current Issues Project Management Law An elective unit selected from List A mester 2 Project Development Current Issues Project Management Law An elective unit selected from List A mester 2 Project Development Current Issues Project Management Law An elective unit selected from List B mester 1 Elective Units Management of Technology Principles of Valuation Property Maintenance & Asset Management	Project Development Cost Management & Economics Current Issues Project Management Project Management Project Management Field Trip Two electives selected from List A International Project Management Project Management Field Trip Two electives selected from List A International Project Management Project Development Current Issues Project Management Project Management Project Management Field Trip Cost Management Exw Course Structure mester 1 Cost Management & Economics Project Management Field Trip An elective unit selected from List A mester 2 International Project Management Project Management An elective unit selected from List B mester 1 Project Management An elective unit selected from List B mester 2 International Project Management An elective unit selected from List B mester 1 Project Development An elective unit selected from List B mester 1 Project Development An elective unit selected from List B mester 1 Project Development Current Issues Froject Management Law An elective unit selected from List A mester 2 Project Development Current Issues Froject Management Law An elective unit selected from List B mester 1 Respect Anagement Law An elective unit selected from List B mester 1 Respect Anagement Law An elective unit selected from List B mester 1 Respect Development Current Issues Froject Management Law An elective unit selected from List B mester 1 Respect Anagement Law An elective Units Management of Technology Frinciples of Valuation Froperty Maintenance & Asset Management Design Management 6 Design Management 6 Current Management 6 Current Jawa 6 Respect Alamagement 6 Respect Alama

List B: Se CNP404 CNP422 CNP667	mester 2 Elective Units Advanced Land Development Specialist Valuation Applied Computing	6 6 6	2 2 2
	/ DEVELOPMENT MAJOR Course Structure		
Year 1, Se CNP402 CNP426/1 CNP430/1 CNP431/1 CNP433/1 CNP437 CNP439	mester 1 Principles of Valuation Project Development Current Issues Project Management Project Management Law Field Trip Property Management Two electives selected from List C	6 6 6 6 6 6 12	2 2 2 2 2 4 days 2 4
Year 1, Se CNP426/2 CNP430/2 CNP431/2 CNP433/2 CNP438	mester 2 Project Development Current Issues Project Management Project Management Law Real Estate Investment Analysis Two electives selected from List D	6 6 6 6 12	2 2 2 2 2 2 4
Part-Time	e Course Structure		
Year 1, Se CNP402 CNP426/1 CNP431/1 CNP437	mester 1 Principles of Valuation Project Development Project Management Field Trip An elective unit selected from List C	6 6 6 6	2 2 2 4 days 2
Year 1, Se CNP426/2 CNP431/2 CNP438	mester 2 Project Development Project Management Real Estate Investment Analysis	6 6 6	2 2 2
Year 2, Se CNP430/1 CNP433/1 CNP439	mester 1 Current Issues Project Management Law Property Management An elective unit selected from List C	6 6 6	2 2 2 2
Year 2, Se CNP430/2 CNP433/2	mester 2 Current Issues Project Management Law Two electives selected from List D	6 6 12	2 2 4
List C: Se CNP400 CNP403 CNP417 CNP429 CNP434	mester 1 Elective Units Management of Technology Property Maintenance & Asset Management Design Management Cost Management & Economics Time Management	6 6 6 6	2 2 2 2 2 2
List D: Se CNP404 CNP406 CNP422 CNP667	mester 2 Elective Units Advanced Land Development International Project Management Specialist Valuation Applied Computing	6 6 6	2 2 2 2

BUILT ENVIRONMENT & ENGINEERING

■ Graduate Diploma in Project Management (CN65) – Singapore

Location: Sumbershire Management Consultants Pte Ltd, Singapore

Aim

The course aims to provide professionals with a sound appreciation of the overall management processes involved in project and property development industries. Particular emphasis is given to the service role of project management in order to optimise the use of resources and to plan, control, deliver and coordinate all aspects of a project or a product which will meet clients' requirement of function, cost, time and quality.

Course Outline

002130 0 20000
There are two specialist majors - Project Management and Property Development.
Coursework is divided into eight units under the following headings:
☐ Management – project, time and cost management
□ Design – management of the design process
□ Law – project management law
$\hfill \Box$
☐ Integrative studies – current issues, computer applications.
Identification of and solutions to practical problems are emphasised both in teachin and learning of these units. Students completing this course will have the opportunity tundertake research and obtain a Masters degree in project management.
For further information on the course, please contact Dr Jay Yang on (07) 3864 1028.
■ Graduate Diploma in Project Management (CN66) – Kuala Lumpur

Aim

Location: Amset (M) Sdn Bhd, Kuala Lumpur

The course aims to provide professionals with a sound appreciation of the overall management processes involved in project and property development industries. Particular emphasis is given to the service role of project management in order to optimise the use of resources and to plan, control, deliver and coordinate all aspects of a project or a product which will meet clients' requirement of function, cost, time and quality.

Co	ourse Outline
Th	ere are two specialist majors – Project Management and Property Development.
Co	oursework is divided into eight units under the following headings:
	Management – project, time and cost management
	Design - management of the design process
	Law - project management law
	Economics - real estate investment and economics, specialist valuations, feasibility
	Integrative studies – current issues, computer applications.

Identification of and solutions to practical problems are emphasised both in teaching and learning of these units. Students completing this course will have the opportunity to undertake research and obtain a Masters degree in project management.

For further information on the course, please contact Dr Jay Yang on (07) 3864 1028.

■ Graduate Diploma in Surveying Practice (PS68)

Location: Gardens Point campus

Course Duration: 1 year full-time (34 weeks)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

Successful completion of the course leads to the licensing by the Surveyors Board of Oueensland.

Entry Requirements

To be eligible for admission an applicant must hold the following:

- (i) a Bachelor of Applied Science (Surveying) degree from the Queensland University of Technology, or
- (ii) a Bachelor of Surveying degree from the University of Queensland, or
- (iii) from another tertiary institution a degree acceptable to the Surveyors Board of Queensland and considered by the Head of the School of Planning, Landscape Architecture and Surveying to be at least equivalent to QUT's Bachelor of Applied Science (Surveying) degree.

Applicants who do not meet the requirements for normal entry but who hold a tertiary qualification in a technological field or other equivalent qualification may be required to complete such prerequisite surveying and other units as may be determined by the Head of School prior to enrolment in the course.

Applicants for admission must have at least one year of practical experience in the practice of surveying following graduation, or its equivalent.

Course St	ructure	Credit Points	Contact Hrs/Wk
Semester :	1		
PSP311	Professional Practice Management	12	9
PSP312	Survey Computing & Processing	8	6
PSP313	Survey Project Management	8	6
PSP314	Boundary Definition Surveys 1	12	9
PSP315	Property Development Surveys	8	6
Semester 2	2		
PSP321	Spatial Information Systems	8	6
PSP322	Engineering Surveying	12	9
PSP323	Project Site Surveys	8	6
PSP324	Boundary Definition Surveys 2	12	9
PSP325	Property Management Surveys	8	6

■ Graduate Diploma in Urban and Regional Planning (PS72)

Location: Gardens Point campus

Course Duration: 3 semesters full-time or 6 semesters part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr John Minnery

Entry Requirements:

To be eligible for admission an applicant must:

- (a) hold a degree or diploma from a recognised tertiary institution, or
- (b) have attained professional recognition by an equivalent course of study or examination.

Note: Graduates from QUT's Bachelor of Built Environment (Urban and Regional Planning) shall be credited with the first semester of full-time study or first two semesters of part-time study (Module A). Students from other backgrounds will be granted credit as appropriate to their education and experience.

Students who have completed units in the Graduate Diploma in Urban and Regional Planning before 1996 will be allowed credit for units in the new Graduate Diploma in Urban and Regional Planning, depending on their grade point average, the length of time which has elapsed since completion, and recent experience. Each case will be treated on its individual merits and will be decided by the Head of School in consultation with the student concerned and staff.

Full-Time Course Structure Credit Contact Points Hrs/Wk

The program is being offered with entry at the start of the year, and from 1997 also through a mid-year (second semester) entry. Students must complete three modules to complete the Graduate Diploma. Each module is worth 48 credit points, equivalent to one semester full-time or two semesters part-time. Modules may be offered in either first or second semester.

Module A PSP501 PSP502 PSP503 PSP504	Environmental Planning & Assessment Economic & Social Foundations of Planning Planning & Research Methods Urban Systems & Infrastructure	12 12 12 12	3 3 3 3
Module B			
PSP505	Planning in Society	12	3
PSP506	Planning Theory & Ethics	12	3
PSP507	Planning Procedures & Law	12	3
PSP508	Planning Practice I	12	3
PSP513	Field Trip ¹⁵	0	1 week
Module C			
PSP509	Regional & Metropolitan Policy	12	3
PSP510	Specialisation	12	3
PSN211	Research Project I & Advanced Research Methods	12	3
PSP512	Planning Practice II	12	3
PSP513	Field Trip ¹⁵	0	l week

¹⁵ Alternative module locations for a single week-long field trip.

Part-Time Course Structure

Module.	A1			
PSP501	Environmental Planning & Assessment	12	3	
PSP503	Planning & Research Methods	12	3 3	
Module .	-			
		10	2	
PSP504 PSP502	Urban Systems & Infrastructure	12 12	3	
PSP30Z	Economic & Social Foundations of Planning	12	3	
Module	B1			
PSP505	Planning in Society	12	3	
PSP506	Planning Theory & Ethics	12	3 3	
Module	R2			
PSP507	Planning Procedures & Law	12	3	
PSP508	Planning Practice I	12	3 3	
PSP513	Field Trip ¹⁶	0	l week	
	•		- 110011	
Module	- -			
PSP509	Regional & Metropolitan Policy	12	3 3	
PSP512	Planning Practice I	12	3	
Module	C2			
PSP510	Specialisation	12	3	
PSP211	Research Project I & Advanced Research Methods	12	3	
PSP513	Field Trip ¹⁶	0	l week	

Note: PSP510 Specialisation offers specialisations in local and regional development, urban housing and community development, urban design and environmental and resource planning. Other special topics may be offered depending on staff availability.

■ Graduate Diploma in Urban Design (PS69)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Entry Requirements

To be eligible for admission an applicant must hold a Bachelor degree with a grade point average of 5.0 or better and demonstrated potential in a relevant professional activity, or a relevant graduate diploma with a grade point average of 5.0 or better, or a qualifying program with a grade point average of 5.0 or better.

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the Masters level.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

¹⁶ Alternative module locations for a single week-long field trip.

Full-Time Course Structure		Contact Hrs/Wk
Semester 1 IFN001 Advanced Information Retrieval Skills PSN004 Applied Research Techniques PSP401 Urban Design Analysis Studio PSP403 Urban Design Conjecture Studio PSP421 History of Urban Systems PSP424 Urban Design Theory & Criticism	4 4 12 12 4 4	1 1 3 3 1
Plus any of the following totalling at least 8 credit points: CNP439 Property Management PSP411 Environmental Psychology PSP416 Computer-aided Data Analysis PSP442 Law & Legislation in Urban Design	6 4 2 4	2 2 1 1
Semester 2 PSP402 Urban Design Context Studio PSP405 Urban Design Field Studies Place and of the following total line at least 22 gradit points:	12 4	3 10 days
Plus any of the following totalling at least 32 credit points: PSN002 Concentration Studies A PSN003 Concentration Studies B PSP011 Conservation Theory PSP432 Urban Landscape PSP434 Urban Services & Functions PSP441 Computer Applications in Urban Design Elective Unit/s	4 8 3 4 4 4	1 2 1 1 1
Part-Time Course Structure		
Year 1, Semester 1 IFN001 Advanced Information Retrieval Skills PSP401 Urban Design Analysis Studio PSP421 History of Urban Systems PSP424 Urban Design Theory & Criticism	4 12 4 4	1 3 1
Year 1, Semester 2 PSP402 Urban Design Context Studio PSP405 Urban Design Field Studies	12 4	3 10 days
Plus any of the following totalling at least 8 credit points: PSP011 Conservation Theory PSP416 Computer Aided Data Analysis PSP432 Urban Landscape PSP434 Urban Services & Functions PSP441 Computer Applications in Urban Design	3 2 4 4 4	1 1 1 1
Year 2, Semester 1 PSP403 Urban Design Conjecture Studio PSN004 Applied Research Techniques	12 4	3 1
Plus any of the following totalling a minimum of 8 credit points: CNP439 Property Management PSP411 Environmental Psychology PSP416 Computer-aided Data Analysis PSP442 Law & Legislation in Urban Design	6 4 2 4	2 2 1 1
Year 2, Semester 2 Any of the following totalling at least 24 credit points: PSN002 Concentration Studies A PSN003 Concentration Studies B PSP432 Urban Landscape PSP434 Urban Services & Functions PSP441 Computer Applications in Urban Design	4 8 4 4	1 2 1 1
Elective Unit/s		

■ Graduate Certificate in Electricity Supply Engineering (EE82)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$142 per credit point for day/evening classes (fees for short-courses and resource-based learning units available on application to School of Electrical and Electronic Systems Engineering)

Course Coordinator: Mr David Birtwhistle

Entry requirements

A Bachelor degree in Electrical Engineering with a study of power subjects to third year level.

Full-Time	Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	12 Units (selected from List 1)		48	12
Part-Time	course structure			
Year 1, Ser	nester 1 6 Units (selected from List 1)		24	6
Year 1, Sen	nester 2 6 Units (selected from List 1)		24	6
List 1: Uni	ts	Weeks	Credit Points	Contact Hrs/Wk
Semester 1			I OIII	1110/ //11
EEP201	Fundamentals of Power System Earthing	1-5	4	3
EEP202	Thermal Ratings & Heat Transfer	1-5	4	3 3 3 3
EEP204	Power System Load Flow Analysis Statistics	1-5 1-5	4 4	3
EEP213 EEP240	_ ·	1-3	4	3
EEF240	Organisation and Financial Management in the Electricity Supply Industry	1-5	4	3
EEP203	Testing & Condition Monitoring	6-10	4	
EEP205	Power System Fault Calculations	6-10	4	3 3
EEP208	Economic Analysis for Power Systems	0-10	-	J
221 200	Engineers	6-10	4	3
EEP210	Abnormal System Voltages	6-10	4	3 3
EEP247	Introduction to Plant Control in Industry			
	and Power Generation	6-10	4	3
EEP206	Project Management	11-15	4	3 3
EEP209	Power System Harmonics	11-15	4	3
EEP218	Introduction to Automated System			
EED210	Control & Supervisory Systems (SCADA)	11-15	4	3
EEP219	High Voltage Substation Equipment, Power Transformers & Reactive Power			
	Plant	11-15	4	3
EEP243	Contract Administration	11-15	4	3
			•	-
Semester 2 EEP207	Overhead Line Route Selection –			
EEF201	Environmental Factors	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3

EEP215 EEP221 EEP244	Reliability Limits to Power System Stability Circuit Breakers – Switchgear	1-5 1-5 1-5	4 4 4	3 3 3
EEP212 EEP214	Advanced Power System Protection Risk Assessment in the Electricity	6-10	4	3
	Supply Industry	6-10	4	3
EEP216	Overhead Line Design – Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP245	Introduction to Substation Design	6-10	4	3
EEP217	Overhead Line Design - Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3
EEP242	Efficient Marketing and Utilisation of Electricity: Demand and Supply Side			_
	Solutions	11-15	4	3

Units available as Resource-based Learning (i.e. Distance Education) with flexible enrolment:

		Credit Points	Hours of Study
EEP202	Thermal Ratings & Heat Transfer	4	45
EEP208	Economic Analysis for Power System Engineers	4	45
EEP209	Power System Harmonics	4	45
EEP210	Abnormal System Voltages	4	45
EEP211	Basic Power System Protection	4	45
EEP212	Advanced Power System Protection	4	45
EEP213	Statistics	4	45
EEP214	Risk Management in the Electricity Supply Industry	4	45
EEP215	Reliability	4	45
EEP217	Overhead Line Design – Mechanical	4	45
EEP220	Distribution Planning	4	45

Units in this course have been accepted by industry as approved training modules.

Credit points may be accumulated towards this award from day/evening classes (3 hours per week x 5 weeks), flexible enrolment in Resource-based Learning (i.e. Distance Education) units or from studies taken as short-courses (conducted in June/July and November/December). Further information on units available as Resource-based Learning or short-courses can be obtained by contacting the School of Electrical and Electronic Systems Engineering on (07) 3864 1632.

■ Graduate Certificate in Engineering Management (ME75)

Location: Gardens Point campus

Course Duration: 1 semester full-time, 1 year part-time

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Tuition Fees (Domestic Students): \$50 per credit point

Course Coordinator: Dr Elias Siores

Entry Requirements

- (i) a Bachelors degree in Engineering (or its equivalent), or
- (ii) relevant training or experience considered by the Course Coordinator as appropriate for entry to the course.

Note: Course offered subject to final University approval.

Course Requirements

Students will take four of the following units. All units are offered in the Master of Engineering Science (Engineering Management) (ME76) or the Graduate Diploma in Quality (IF69). The course may be taken full-time, part-time, part-time (block release) or by a combination of these modes.

Full-Time	Part-Time Course Structure	Credit Points	Contact Hrs/Wk
Select fou	r units from the following:		
MEN140	Quality & Reliability Engineering	12	3
MEN170	Systems Modelling & Simulation	12	3
MEN171	Advanced Manufacturing Technologies	12	3
MEN240	Maintenance Management & Technology	12	3
MEN270	Manufacturing Resource Planning	12	3
MEN280	Engineering Project Management	12	3
MEP274	Quality Systems Implementation and Maintenance	12	3

■ Graduate Certificate in Project Development (CN81)

With specialisations in: Construction Management, Project Management, Property Development, and Property Economics.

Similar courses are offered in Singapore (CN82) and Kuala Lumpur (CN83).

Location: Gardens Point campus
Course Duration: 1 year part-time

Total Credit Points: 48

Standard Credit Points/Part-Time Semester: 24
Tuition Fees (Domestic Students): \$80 per credit point

Course Coordinator: To be advised

Entry requirements NORMAL ENTRY

An applicant must:

- (i) hold an approved degree or diploma from a recognised university, college of advanced education or approved tertiary institution, or
- (ii) hold degree-equivalent professional qualifications, and
- (iii) normally have at least three years' relevant experience after graduation.

SPECIAL ENTRY

An applicant must:

- (i) have extensive, relevant, professional experience as determined by the Course Coordinator
- (ii) for the specialisations in Project Management and Property Development, have a minimum of three years' relevant experience after graduation.

Course Structure

No exemptions are permitted. If a unit has been studied previously then an alternative should be selected.

If students have opted for the majors in Project Management or Property Development, after the successful completion of the graduate certificate, they may, on achieving a grade point average of 5.0 or better and gaining admission to the Graduate Diploma in Project Management, complete a further 48 credit points in the same discipline with the guidance

and approval of the Course Coordinator and be granted the Graduate Diploma in that discipline.

It should be noted that some units are available in concentrated format over a period of one, two or three days rather than in the standard format of two hours per week for one or two semesters. These will be run only if there is sufficient demand and will be self-funding from fees charged.

It is strongly recommended that all graduate certificate students complete the unit IFN001 Advanced Information Retrieval Skills prior to commencing the course or early in Semester 1. The credit point value of this unit is not included in the total credit points which must be completed to be awarded a graduate certificate.

School electives are offered subject to an appropriate enrolment in each semester.

CONSTRUCTION MANAGEMENT MAJOR

Students must complete a total of 48 credit points from the following units:

Semester	1		
CNB601	Formwork Design & Construction	4	2
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
Semester :	2		
CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

Electives available in the Graduate Diploma in Project Management (CN64) or in advanced units in CN41 may also be undertaken with the prior approval of the Course Coordinator.

PROJECT MANAGEMENT MAJOR

Students must complete a total of 48 credit points from the following units:

Semester	1		
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP430/1	Current Issues	6	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
Semester	2		
CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Project Management major – may also be undertaken with the prior approval of the Course Coordinator.

PROPERTY DEVELOPMENT MAJOR

Students must complete a total of 48 credit points from the following units:

Semester	1		
CNP402	Principles of Valuation	6	2
CNP426/1	Project Development	6	2

CNP430/1 CNP431/1 CNP433/1 CNP434 CNP437 CNP439	Current Issues Project Management Project Management Law Time Management Field Trip Property Management	6 6 6 6 6	2 2 2 2 4 days 2
Semester 2	2		
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP432	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Property Development major – may also be undertaken with the prior approval of the Course Coordinator.

PROPERTY ECONOMICS MAJOR

Students must complete a total of 48 credit points from the following units:

Sem	ıester	1

Semester 1	L		
CNB568	Real Estate Practice	5	2.5
CNP402	Principles of Valuation	6	2
CNP403	Property Maintenance & Asset Management	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2 2 2 2
CNP439	Property Management	6	2
Semester 2	2		
CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	2 3 2 2 2 2
CNB626	Land Development Studies	4	2
CNP422	Specialist Valuation	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	2
CNP431/2	Project Management	6	2
CNP438	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) – Property Development major – may also be undertaken with the prior approval of the Course Coordinator.

Note: A Graduate Certificate in Project Development with no major can also be taken by enrolling in 48 credit points from the following list:

Semester 1

Schlester	1		
CNB601	Formwork Design & Construction	4	2
CNP402	Principles of Valuation	6	2
CNP426/1	Project Development	6	2
CNP429	Cost Management & Economics	6	2
CNP430/1	Current Issues	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management	6	2
CNP437	Field Trip	6	4 days
CNP439	Property Management	6	2
Semester	2		
CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2

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CNP406	International Project Management	6	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	6	3
CNP431	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP438	Real Estate Investment Analysis	6	2

Electives available in the Graduate Diploma in Project Management (CN64) or other units in the University may also be undertaken with the prior approval of the Course Coordinator, in order that the specific needs of individual students are met.

■ Graduate Certificate in Project Development (CN82) – Singapore

Location: Sumbershire Management Consultants Pte Ltd, Singapore

Aim

This course aims to broaden formal education and help professionals develop expertise in their chosen career paths. Students choose their own major of study to complement their continuing professional education program with an emphasis on management aspects.

Course Outline

	Project management
	Property development
	Property economics
	Construction management
	Generic course (no specific major).
an	entification of and solutions to practical problems are emphasised both in the teaching d learning process. Students completing this course with a grade point average of 5 or tter will gain admission to the Graduate Diploma Course in Project Management.

For further information on this course, please contact Dr Jay Yang on (07) 3864 1028.

■ Graduate Certificate in Project Development (CN83) – Kuala Lumpur

Location: Amset (M) Sdn Bhd, Kuala Lumpur

Majors are offered in the following areas:

Aim

This course aims to broaden formal education and help professionals develop expertise in their chosen career paths. Students choose their own major of study to complement their continuing professional education program with an emphasis on management aspects.

Course Outline

Majors are offered in the following areas:			
	Project management		
	Property development		
	Property economics		
	Construction management		

_	~ .		,			
	Generic	course	(no	specific	maior)	

Identification of and solutions to practical problems are emphasised both in the teaching and learning process. Students completing this course with a grade point average of 5 or better will gain admission to the Graduate Diploma Course in Project Management.

For further information on this course, please contact Dr Jay Yang on (07) 3864 1028.

☐ Course Requirements and Notes Relating to Undergraduate Courses

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester that they are offered. Prerequisite units must normally be passed before a student may proceed to a further unit which has the prerequisite so specified. The Course Coordinator should be consulted regarding variations from the course structure. This is considered to be a major concession. Students who have failed units, or have doubts about having the necessary background to proceed, should seek the advice of the Course Coordinator.

Summer School (Mid-year Entry Courses)

The objective of running a Summer School for mid-year entry students is to provide an accelerated program which enables students to complete their courses in 3.5 years. Students resume a standard program from the third year. The Summer School is necessary in order for mid-year entry students to complete their courses in minimum time. If studies are not undertaken during the Summer School period, completion in minimum time is not possible.

Awards with Honours

Honours may be awarded to graduands of the Bachelor of Architecture, the four-year single degree and five-year double degree Bachelor of Engineering and Surveying courses, and the four-year Bachelor of Applied Science courses in Construction Management and Quantity Surveying. First class Honours, second class Honours division A and second class Honours division B may be awarded. Candidates for a degree with Honours must fulfil the requirements for a pass degree and achieve a standard of proficiency in all course units as may from time to time be determined by the Faculty academic board and approved by Academic Committee.

□ Eligibility for Honours

Eligibility for awards with Honours is not affected by the time taken to complete a course. However, to be eligible for such an award, a graduand must have completed the course within the maximum number of calendar years specified in the policy on time limits for completion of courses, Student Rule 1.19 in the QUT Handbook. Three- and four-year (full-time) courses must be completed in ten years. Combined degree courses must be completed in eleven years. Time limits are measured in calendar years from the first day of the first semester in which the student was enrolled and include periods of interruption such as leave of absence. In addition, to be eligible for an award with Honours, a graduand must have been enrolled in the course at QUT for at least two years of full-time study or its equivalent.

□ Honours Based on Grade Point Average

The Built Environment and Engineering Academic Board has resolved that awards with Honours for students graduating post-1992 will be based on grades achieved by students throughout the whole of their course as determined by the Grade Point Average calculation.

Units for which a student was awarded an exemption and units for which an ungraded pass or fail result is given are not included in the calculation.

Students obtaining a GPA of 6.0 or greater will normally qualify for the award of first class Honours. Students obtaining a GPA of 5.5 to 5.99 will normally qualify for the award of second class Honours division A. Students obtaining a GPA of 5.0 to 5.49 will normally qualify for the award of second class Honours division B.

The Faculty Academic Board will be reviewing the policy on Awards with Honours during 1996. Any amendments to policy will not disadvantage students.

Dean's List

Easch semester, the Faculty of Built Environment and Engineering will publish a Dean's list comprising names of students achieving a GPA (grade point average) of 6.5 or better. The list will be widely circulated within the Faculty and Schools, posted on notice boards and published in the Faculty Newsletter.

Supplementary Assessment

It is not normally Faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

Use of Calculators in Examinations

Restrictions apply on the use of calculators in examinations. Students should consult the first year information booklets for details of the policies of individual schools.

Field Trips

Attendance at field trips or field projects in engineering courses is compulsory.

School of Civil Engineering Safety Shoes Policy

Students enrolled in units specified by the School of Civil Engineering will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering as required.

Industrial Experience for Engineering and Surveying Courses

Industrial experience/practice forms part of the requirements of engineering and surveying degree courses, in order to provide a realistic background for formal academic studies and to ensure that students become effectively balanced in their professional development. For engineering students, it is a requirement of the Institution of Engineers, Australia, for graduate membership. Industrial experience/practice is undertaken during the long vacation or the mid-semester recess as an employee of a private firm, government agency or local authority.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Faculty Office) a report in the required format describing the work carried out during the period of industrial experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Experience Officer in Room 1006, ITE Building, Gardens Point campus.

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial experience/practice in an engineering environment approved by the Course Coordinator.

A candidate for the degree of Bachelor of Applied Science (Surveying) must obtain at least 90 days of industrial experience/practice in a surveying environment approved by the Course Coordinator.

Candidates in the Bachelor of Engineering (Aerospace Avionics) degree are required to obtain 10 days' specialist experience in the avionics industry during the first year of their course. This is in addition to the 60 days' industrial experience/practice requirement.

A candidate for an Associate Diploma of Engineering should refer to the relevant course structure for specific industrial experience/practice requirements for these courses.

ENROLMENT IN INDUSTRIAL EMPLOYMENT/PRACTICE

Students in the Bachelor of Applied Science (Surveying) and Bachelor of Engineering courses should not formally enrol in industrial experience/practice.

However, students in Associate Diploma of Engineering courses must enrol in industrial experience units as these units carry credit points. For these students, the enrolment must be in the semester in which students expect to submit an Industrial Experience Record Form which will fulfil the minimum requirement of 15 weeks for the unit.

Industrial Experience for the Bachelor of Architecture Course (AR48)

A candidate for the Bachelor of Architecture degree must be engaged in approved employment for at least 48 recognised weeks within the first three years (Approved Employment A), and for at least 72 recognised weeks within the second three years (Approved Employment B).

□ Approved Employment

'Approved employment' is defined as working under the direction of an architect who is registered within the place of practice where the experience is obtained.

☐ Eight Weeks at a Time

Periods of work experience of less than eight recognised weeks' continuous duration cannot be accredited.

□ Recognised Week

A 'recognised week' is a week of five days' work. During semester, when students normally work for four days per week, the 18 week semester (14 weeks in class and four weeks in examination), translates to 14.4 'recognised weeks'. This figure is rounded off to 14 weeks to take into account of public holidays. Students in continuous concurrent employment would normally accumulate 40 recognised weeks in a calendar year. (A three-day working week constitutes three-fifths of a recognised week. A six day working week constitutes sixth-fifths of a recognised week.

All reference to a 'week' hereinafter shall mean a 'recognised week'.

☐ Years 1 and 2 Commencement

Candidates who are admitted into the course at the beginning of Years 1 and 2 must satisfy all of Approved Employment A & B requirements.

□ Year 3 Commencement

Candidates who are admitted into the course at the beginning of Year 3 must complete 24 weeks in Approved Employment A and all Approved Employment B requirements.

☐ After Year 3 Commencement

Candidates who are admitted directly into the course after the end of the third year must satisfy Approved Employment B only.

□ Prerequisite

Approved Employment A is normally a pre-requisite for Approved Employment B.

□ Allied Experience During the Course

Candidates may accumulate up to 12 weeks maximum in Approved Employment A and up to 18 weeks maximum in Approved Employment B for experience gained prior or during the course in approved allied areas to architecture. (Commonly approved allied areas: Civil Engineering, Interior Design, Industrial Design, Quantity Surveying, Construction Management, Town Planning, Landscape Architecture, Building.)

□ Experience Prior to Commencement

Candidates may accumulate a maximum of 24 weeks in Approved Employment A and a maximum of 36 weeks in Approved Employment B for satisfactory approved experience under the direction of an architect prior to enrolment in the course and these maximum periods can include:

satisfactory approved experience gained prior to enrolment in the course in approved allied areas of architecture (provided the total period claimed for experience in approved allied areas does not exceed the maximum periods set for that experience in Approved Employment A & B).

□ Experience During Leave of Absence

Candidates may accumulate up to 24 weeks in Approved Employment A and 36 week in Approved Employment B during periods of approved leave of absence from formal classes. This may be in a period during the course or after completion of the academic course requirements.

□ Report Each Semester

Semester update reports on progress are required at the end of each semester and examination results may not be issued until they are submitted.

□ Report Form Employment A

QUT School of Architecture, Interior & Industrial Design Approved Employment report forms must be completed and lodged for Approved Employment A.

□ Report Log for Employment B

The AACA log book of practical experience and university report forms must be completed and lodged to QUT for Approved Employment B.

□ Satisfactory Employment for Course Progression and Graduation

For administrative purposes, candidates must enrol in Approved Employment A in the second semester of third year and then cannot proceed to fourth year until this unit of employment is satisfied, unless a special dispensation is granted. Candidates must enrol in Approved Employment B in the second semester of sixth year and will not be eligible to graduate until this unit of employment is satisfied. In both cases the accumulated credit, as recorded through the semester reports, will form the basis for accrediting work experience.

□ Credited Employment Counts Once

Employment which has been approved or credited in Employment A cannot be considered for further approval or credit in Employment B.

☐ Full-time Students in Final Two Years

For candidates proposing to study the final 192 credit points in the course in two years full-time:

(a) Candidates (including those who had previously been studying full time) must have achieved a minimum of 36 weeks accredited to Approved Employment B, before commencing Year 4.

(b) Candidates who had previously been studying part-time, and who have satisfied Approved Employment A, may apply in Approved Employment B for credit of a maximum of 36 weeks of work experience accrued in the first three years which is in addition to that credited to Approved Employment A.

□ Types of Experience

Type of experience required:

- (a) Approved Employment A at least 50 per cent of time in undertaking design and/ or documentation.
- (b) Approved Employment B -
 - (i) 50 per cent of time in design stages and contract documentation (AACA item 4.3 and 4.5)
 - (ii) Preliminary site investigation and evaluation of at least one project (AACA item 4.2.4)
 - (iii) Project Management /Contract Administration of at least one project at 'observer' status where direct experience is unavailable (AACA items 4.7.19, 4.7.20, 4.7.21 and 4.7.22)

■ Bachelor of Applied Science (Construction Management) (CN41)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration: 3 years full-time plus 1 year part-time, or 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Gary Thomas

Professional Recognition

Completion of the Bachelor of Applied Science (Construction Management) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Building.

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed full-time by an approved building organisation or other approved body, ideally during the whole of their study, but as a minimum for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final year part-time segment of the course.

Part-time study generally involves 11 to 13 hours per week and comprises a full-day release from employment with the remaining time spread over two nights between 5.00 pm and 9.30 pm.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening. All students must become familiar with and comply with the School's enrolment rules.

Full-Time Cours	se Structure	Credit Points	Contact Hrs/Wk
CNB113 Buildi CNB121 Profes COB165 Profes ISB170 Introd	ruction 1 ing Technology 1 ssional Studies A ssional Writing/Learning at University duction to Computing ematics for Technologists	12 8 8 8 6 6	6 4 3 2.5 2 3
CNB112 Const CNB114 Buildi CNB116 Meast CNB118 Buildi CNB124 Profes PSB910 Const	ruction 2 ing Technology 2 urement 1 ing Services 1 ssional Studies 1 truction Surveying	12 8 6 6 8 8	5 4 3 2 4 4
CNB213 Buildi CNB215 Meast CNB217 Buildi CNB219 Econo CNB221 Buildi CNB223 Appli	truction 3 ing Technology 3 urement 2 ing Services 2 omics of the Construction Industry ing Legislation ed Computing 1	12 6 6 6 6 6	4 4 3 3 2 4 2
CNB216 Meast CNB218 Build CNB220 Const CNB222 Estim CNB224 Profes	r 2 truction 4 truction 4 trement 3 ting Services 3 truction Management 1 tating 1 ssional Studies 2 & Contract Law	9 6 6 6 9	5 3 3 2 2 2 3 3
CNB313 Time CNB315 Const CNB317 Const CNB323 Estim CNB325 Buildi	r 1 Truction 5 Management 1 Truction Business Management Truction Management 2 Tating 2 Truction Economics Truction Management 2	9 6 6 6 6	5 4 3 3 2 2 2
Year 3, Semester CNB316 Valua CNB318 Comm CNB322 Const CNB326 Time CNB328 Const CNB330 Appli	_	6 6 8 8 6 8	3 2 3 4 3 3 3
CNB411 Devel CNB417 Resea	ssional Practice 1A lopment Process 1 urch Project 1 ed Computing 3	9 9 12 9	3 3 4 3 3
CNB412 Devel CNB416 Const	ssional Practice 2A lopment Process 2 truction Management 4 arch Project 2	9 6 12 12 9	3 2 4 4 3

Part-Time Course Structure Year 1. Semester 1 **CNB119** Construction 1 12 6 **CNB113** Building Technology 1 8 4 C0B165 Professional Writing/Learning at University 8 2.5 Year 1, Semester 2 **CNB112** Construction 2 12 5 **CNB114** Building Technology 2 8 4 **MAB299** Mathematics for Technologists 6 3 Year 2. Semester 1 CNB211 Construction 3 12 4 CNB213 Building Technology 3 6 4 CNB221 **Building Legislation** 6 4 Year 2. Semester 2 CNB116 Measurement 1 6 3 CNB118 2 **Building Services 1** 6 **CNB212** 9 5 Construction 4 2 ISB170 Introduction to Computing 6 Year 3, Semester 1 8 CNB 121 Professional Studies A 3 **CNB215** Measurement 2 3 6 **CNB223** 2 Applied Computing 1 6 CNB311 Construction 5 9 5 Year 3. Semester 2 CNB216 Measurement 3 6 3 3 **CNB218 Building Services 3** 6 2 CNB222 Estimating 1 6 Torts & Contract Law CNB226 6 3 Year 4. Semester 1 **CNB217 Building Services 2** 6 3 **CNB219** Economics of the Construction Industry 2 6 2 CNB323 Estimating 2 6 CNB329 Building Contracts/Arbitration Law 3 6 Year 4. Semester 2 **CNB220** Construction Management 1 6 2 **CNB316** Valuations & Investment Theory 3 6 3 CNB322 Construction Management Case Study 6 PSB910 Construction Surveying 8 4 Year 5, Semester 1 Time Management 1 CNB313 9 4 CNB315 Construction Business Management 6 3 **CNB317** Construction Management 2 3 6 2 CNB325 **Building Economics** 6 Year 5, Semester 2 **CNB318** Commercial Law 6 2

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CNB326

CNB328

CNB330

CNB411

CNB417

CNB419

CNB431

CNB412

CNB416

Year 6. Semester 1

Year 6, Semester 2

Time Management 2

Applied Computing 2

Development Process 1

Applied Computing 3

Development Process 2

Construction Management 4

Research Project 1

Elective 1

Construction Management 3

12

Work Experience

Research Project 2

Elective 2

CNB418

CNB432

A student registered in the part-time study program must be in approved full-time employment for three of the final four years of the course.

Part-time students should endeavour to complete their Professional Practice units in years 4 & 5 when they are to enrol and satisfy the requirements of the following units:

CNB021	Professional Practice 1	12
CNB022	Professional Practice 2	12
CNB023	Professional Practice 3	9
CNB024	Professional Practice 4	9

■ Bachelor of Applied Science (Construction Management) (CN31)

See course requirements and notes relating to undergraduate courses.

Course discontinued: No further intakes. This course has been replaced by the Bachelor of Applied Science (Construction Management) (CN41). Years 3 to 4 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 6 years part-time, 2 years full-time plus 2 years part-time

Total Credit Points: 287

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Gary Thomas

Professional Recognition

Completion of the Bachelor of Applied Science (Construction Management) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Building.

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed full-time by an approved building organisation or other approved body, for three of the final four years of the course. A student registered in the full-time study program must be similarly employed during the final two years part-time segment of the course.

Part-time study generally involves 11 to 12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5.00 pm and 9.30 pm. For the first four years of the part-time course a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening. All students must become familiar with and comply with the School's enrolment rules.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 3, Se	mester 1		
CNB341	Building & Civil Engineering Construction	4	2
CNB444	Mechanical & Electrical Estimating OR Elective	4	2



CNB527	PM2 - Quantitative Techniques 3	3	1.5	
CNB540	Estimating 2	5	2.5	
CNB545 CNB501	PM3 – Construction Planning Techniques 1 Building Management 3	7 4	3.5 2	
		4	2	
Year 3, Se		4	0	
CNB501 CNB502	PM1 – Advanced Construction Methods Building Management 4	4 4	2 2	
CNB543	Law 4 – Torts & Arbitration	3	1.5	
CNB548	PM4 – Construction Planning Techniques 2	8	4	
CNB550	PM5 – Project Cost Control	6	3	
Year 4, Se	emester 1			
CEB701	Civil Engineering Quantities 1 OR Elective	4	2	
CNB623 CNB642	PM6 – Building Development Techniques 1 Applied Computer Techniques	4 6	2	
CNB656/1	Building Research	8	2 4	
CNB603	Building Management 5	4	2	
Year 4, Se	emester 2			
CNB401	Building Economics & Cost Planning	4	2	
CNB606	PM8 – Land Development Studies	4	2	
CNB624	PM7 – Building Development Techniques 2	4	2	
CNB643 CNB656/2	Law 5 – Commercial Law OR Elective Building Research	3 10	1.5 5	
	-	10	J	
Elective u	ınits			
	may be taken from any other course offered by the Uourse Coordinator.	Jniversity in co	onsultation	l
Part-Tim	e Course Structure			
Year 3, Se CNB009	Measurement of Construction 3	4	2	
CNB013	Building Services 1 – HVAC	4	2	
CNB341	Building & Civil Engineering Construction	4	2	
CNB342	Law 2 – Principles & Property	3	1.5	
SSB908 PSB904	Behavioural Science Surveying & Measuring	6 4	3 2	
		•	2	
Year 3, Se	Measurement of Construction 4	4	1	
CNB010	Building Services 2 – Electrical	4	2 2	
CNB347	Hygiene & Sanitation	4	2 2	
CNB405	Project Equipment & Safety	4	2	
PSB905	Project Survey	4	2	
Year 4, So				
CNB403 CNB440/1	Building Management 1	4	2	
CNB440/1 CNB442/1	Law 3 – Building Contracts Valuation & Dilapidations	3 4	1 2	
CNB443	Building Services 3	5	2.5	
CNB444	Mechanical & Electrical Estimating OR Elective	4	2	
CNB601	Formwork Design & Construction	4	2	
Year 4, So				
CNB301	PM1 – Advanced Construction Methods	4	2	
CNB343 CNB404	Economics of the Construction Industry OR Elective Building Management 2	4 4	2 2	
CNB440/2	Law 3 – Building Contracts	3	1	
CNB442/2	Valuation & Dilapidations	2	1	
CNB446	Estimating 1	5	2.5	
Year 5, Semester 1				
CEB701	Civil Engineering Quantities OR Elective	4	2	
CNB527	PM2 – Quantitative Techniques	3	1.5	

CNB540 CNB545 CNB501	Estimating 2 PM3 – Construction Planning Techniques 1 Building Management3	5 7 4	2.5 3.5 2
Year 5, Se	mester 2		
CNB401	Building Economics & Cost Planning	4	2
CNB502	Building Management 4	4 3	2 2 1.5
CNB543	Law 4—Torts & Arbitration	3	1.5
CNB548		8	4 3
CNB550	PM5 Project Cost Control	6	3
Year 6, Se	mester 1		
CNB623	PM6 – Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	2 3
CNB656/1	Building Research	8	4
CNB603	Building Management 5	4	2
Year 6, Semester 2			
CNB606	PM8 - Land Development Studies	4	2
CNB624	PM7 – Building Development Techniques 2	4	2
CNB643	Law 5 - Commercial Law OR Elective	3	1.5
CNB656/2	Building Research	10	5

Elective units

Electives may be taken from any other course offered by the University in consultation with the Course Coordinator.

■ Bachelor of Applied Science (Property Economics) (CN32)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

Completion of the undergraduate course together with the related experience requirements make a graduate eligible for membership of the Australian Institute of Valuers and Land Economists, registration by the Valuers Registration Board of Queensland, and licensing as a real estate agent.

Special course requirements

Full-time students must undertake six weeks' professional work experience during the duration of the course. All work experience is to be approved by the Course Coordinator to verify that it is appropriate.

A student registered in the part-time study program must be employed full-time in an approved organisation for three of the final four years of the course.

Part-time study generally involves 10 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5.00 pm and 9.30 pm.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se	emester 1		
CNB342	Law 1	8	2
CNB161	Building Studies	8	4.5

COB004 ISB180 CNB367 CNB180	Professional Writing & Learning at University Computer Applications Accounting 1 Macro Economics	8 8 8 8	2.5 2 2 2 2
Year 1, Se	emester 2		
CNB263 CNB568 CNB600 CNB162 SSB980 CNB186	Principles of Valuations Real Estate Practice Real Estate Agency Building Studies 2 Managerial Behaviour Micro Economics	8 8 8 8 8	3 2 2 4 2 2
Year 2, So			
CNB363 CNB567 CNB643 CNB166 CNB366	Investment Valuation Real Estate Market Analysis Law 2 Urban Economics Accounting & Finance	12 8 8 8 12	4 2 2 2 2
Year 2, Se	emester 2		
CNB464 CNB665 CNB261 CNB467 CNB565 CNB262	Rural Valuation Property Management & Asset Management 1 Building Studies 3 Land Use Planning Land Management & Administration Construction Economics	8 8 8 8 8	4 4 2 2 2
Year 3, Se	emester 1		
CNB563 CNB666 CNB663 CNB465 CNB661	Statutory Valuation Property Management & Asset Management 2 Property Development 1 Real Estate Investment Analysis 1 Research Project 1 Elective	8 8 8 8	2 2 2 3 2 2
Year 3, Se	emester 2		
CNB564 CNB664 CNB466 CNB662	Specialist Valuations Property Development 2 Real Estate Investment Analysis 2 Research Project 2 Elective	8 12 8 12 8	2 2 2 2 2
Part-Tim	e Course Structure		
Year 1, Se CNB161 COB004 CNB180	emester 1 Building Studies 1 Professional Writing & Learning at University Macro Economics	8 8 8	4.5 2.5 2
Year 1, So	emester 2		
CNB263 CNB162 CNB188	Principles of Valuation Building Studies 2 Micro Economics	8 8 8	3 4 2
Year 2, Se		_	
CNB342 ISB180 CNB367	Law 1 Computer Applications Accounting 1	8 8 8	2 2 2
Year 2, Se			
CNB568 CNB600 SSB908	Real Estate Practice Real Estate Agency Managerial Behaviour	8 8 8	2 2 2
Year 3, Semester 1			
CNB363 CNB567 CNB643	Investment Valuation Real Estate Market Analysis Law 2	12 8 8	4 2 2

Year 3, Ser CNB464 CNB665 CNB261	nester 2 Rural Valuation Property Management & Asset Management 1 Building Studies 3	8 8 8	4 2 4
Year 4, Ser CNB166 CNB368	nester 1 Urban Economics Accounting & Finance	8 12	2 2
Year 4, Ser CNB467 CNB565 CNB262	mester 2 Land Use Planning Land Management & Administration Construction Economics	8 8 8	2 2 2
Year 5, Ser CNB563 CNB666 CNB663	nester 1 Statutory Valuation Property Management & Asset Management 2 Property Development	8 8 8	2 2 2
Year 5, Set CNB564 CNB664	nester 2 Special Valuation Property Development 2	8 12	2 2
Year 6, Set CNB465 CNB661	mester 1 Real Estate Investment Analysis 1 Research Project 1 Elective	8 8 8	3 2 2
Year 6, Ser CNB662 CNB466	nester 2 Research Project 2 Real Estate Investment Analysis 2 Elective	8 12 8	2 2 2

■ Bachelor of Applied Science (Quantity Surveying) (CN43)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration: 3 years full-time plus 1 year part-time, or 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48 Course Coordinator: Mr Don Campbell-Stewart

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed full-time by a building organisation or quantity surveying office under the direction of a qualified quantity surveyor, ideally during the whole of their study, but as a minimum for three of the final four years of the course.

A student registered for the full-time study program must be similarly employed during the final year part-time segment of the course.

Part-time study generally involves 11 to 13 hours per week and comprises a full-day release from employment with the remaining time spread over two nights between 5.00 pm and 9.30 pm.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening. All students must become familiar with and comply with the School's enrolment rules.

Professional Recognition

Completion of the Bachelor of Applied Science (Quantity Surveying) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se CNB113 CNB119 CNB121 COB165 ISB170 MAB299	Building Technology 1 Construction 1 Professional Studies A Professional Writing/Learning at University Introduction to Computing Mathematics for Technologists	8 12 8 8 6 6	4 6 3 2.5 2
Year 1, Se CNB112 CNB114 CNB116 CNB118 CNB124 PSB910	Construction 2 Building Technology 2 Measurement 1 Building Services 1 Professional Studies 1 Construction Management	12 8 6 6 8 8	5 4 3 2 3 4
Year 2, Se CNB211 CNB213 CNB215 CNB217 CNB219 CNB221 CNB223	Construction 3 Building Technology 3 Measurement 2 Building Services 2 Economics of the Construction Industry Building Legislation Applied Computing 1	12 6 6 6 6 6	4 4 3 3 2 4 2
Year 2, Se CNB212 CNB216 CNB218 CNB220 CNB222 CNB224 CNB226	Construction 4 Measurement 3 Building Services 3 Construction Management 1 Estimating 1 Professional Studies 2 Torts & Contract Law	9 6 6 6 9 6	5 3 3 2 2 2 3 3
Year 3, Se CNB311 CNB313 CNB315 CNB319 CNB323 CNB327 CNB329	Construction 5 Time Management 1 Construction Business Management Professional Management Estimating 2 Building Economics 1 Building Contracts/Arbitration Law	9 6 6 6 6	5 4 3 3 2 2 2 3
Year 3, Se CNB312 CNB314 CNB316 CNB318 CNB320 CNB324 CNB332	Measurement 4 Contract Administration 1 Valuations & Investment Theory Commercial Law Building Economics 2 Professional Studies 3A Applied Computing 2A	9 6 6 6 6 9	4 3 3 2 2 2 3 3
Year 4, Se CNB001 CNB411 CNB415 CNB417 CNB421	Professional Practice 1A Development Process 1 Contract Administration 2 Research Project 1 Elective 1	9 9 9 12 9	3 3 4 3

Year 4, Sei	mester 2		
CNB002	Professional Practice 2A	9	3
CNB412	Development Process 2	6	2
CNB414	Civil Engineering Quantities	12	4 4
CNB418 CNB422	Research Project 2 Elective 2	12 9	3
CND422	Elective 2	9	3
Part-Time	Course Structure		
Year 1, Sea	mester 1		
CNB119	Construction 1	12	6
CNB113	Building Technology 1	8	4
COB165	Professional Writing/Learning at University	8	2.5
Year 1, Se			
CNB112	Construction 2	12	5
CNB114	Building Technology 2	8	4
MAB299	5	6	3
Year 2, Se			
CNB211	Construction 3	12	4
CNB213	Building Technology 3	6	4
CNB221	Building Legislation	6	4
Year 2, Ser		,	
CNB116	Measurement 1	6	3
CNB118 CNB212	Building Services 1	6 9	2
ISB170	Construction 4 Introduction to Computing	6	3 2 5 2
		U	2
Year 3, Ser		0	2
CNB121 CNB215	Professional Studies A Measurement 2	8 6	3
CNB213 CNB223	Applied Computing 1	6	3 2
CNB311	Construction 5	9	5
Year 3, Ser	mester 2		
CNB216	Measurement 3	6	3
CNB218	Building Services 3	6	3
CNB222	Estimating 1	6	2
CNB226	Torts & Contract Law	6	3
Year 4, Se	mester 1		
CNB217	Building Services 2	6	3
CNB219	Economics of the Construction Industry	6	2
CNB319	Professional Management	6	2 3 2 3
CNB323	Estimating 2	6	2
CNB329	Building Contracts/Arbitration Law	6	3
Year 4, Se			
CNB220	Construction Management 1	6	2
CNB312	Measurement 4	9	4
CNB316	Valuations & Investment Theory	6	3
PSB910	Construction Surveying	8	4
Year 5, Ser		•	
CNB313	Time Management 1	9	4
CNB315 CNB327	Construction Business Management	6 6	3
CNB327 CNB421	Building Economics 1 Elective 1	9	3 2 3
		,	3
Year 5, Second	mester 2 Contract Administration 1	6	2
CNB314 CNB318	Commercial Law	6	3 2
CNB320	Building Economics 2	6	3
CNB332	Applied Computing 2A	6	3

Year 6, Semester 1 CNB411 Development Process 1 ó **CNB415** Contract Administration 2 3 12 CNB417 Research Project 1 Year 6, Semester 2 CNB412 Development Process 2 6 2 Civil Engineering Quantities 12 CNB414 12 CNB418 Research Project 2 CNB422 Elective 2

Work Experience

A student registered in the part-time study program must be in approved full-time employment for three of the final four years of the course.

In the semesters in which part-time students undertake their professional experience they are to enrol and satisfy the requirements of the following units:

CNB031	Professional Practice 1	12
CNB032	Professional Practice 2	12
CNB033	Professional Practice 3	9
CNB034	Professional Practice 4	9

■ Bachelor of Applied Science (Quantity Surveying) (CN33)

See course requirements and notes relating to undergraduate courses.

Course discontinued: No further intakes. This course has been replaced by the Bachelor of Applied Science (Quantity Surveying) (CN43). Years 3 to 4 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 6 years part-time, 2 years full-time plus 2 years part-time

Total Credit Points: 287

Standard Credit Points/Full-Time Semester: 48 Course Coordinator: Mr Don Campbell-Stewart

Professional Recognition

Completion of the Bachelor of Applied Science (Quantity Surveying) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

Special Course Requirements

Students are required to pass the examination segment of each unit to pass that unit.

A student registered in the part-time study program must be employed in a building or quantity surveying office under the direction of a qualified quantity surveyor for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final two-year part-time segment of the course.

Part-time study generally involves 11 to 12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5.00 pm and 9.30 pm. For the first four years of the part-time course a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening. All students must become familiar with and comply with the School's enrolment rules.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 3, Se	mester 1		
CNB341 CNB444	Building & Civil Engineering Construction Mechanical & Electrical Estimating OR	4	2
CNB451 CNB461 CNB540 CNB545	Elective unit Computer Software Applications 1 Measurement of Construction 5 Estimating 2 PM3 – Construction Planning Techniques 1	4 4 3 5 7	2 2 1.5 2.5 3.5
Year 3, Se	mester 2		
CNB301 CNB462 CNB502 CNB520 CNB524 CNB526 CNB552	PM1 – Advanced Construction Methods Measurement of Construction 6 Building Management 4 Specifications Measurement of Construction 7 Post Contract Services 1 Office Management	4 3 4 3 4 5	2 1.5 2 1.5 2 2.5
Year 4, Se	mester 1		
CNB603 CEB701 CNB623 CNB647 CNB653 CNB656/1	Building Management 5 Civil Engineering Quantities 1 PM6 – Building Development Techniques 1 Cost Planning & Cost Control 1 Post Contract Service 2 Building Research	4 4 4 4 5 8	2 2 2 2 2.5 4
Year 4, Semester 2			
CEB901 CNB452 CNB624 CNB648 CNB656/2	Civil Engineering Quantities 2 Computer Software Applications 2 PM7 Building Development Techniques 2 Cost Planning & Cost Control 2 Building Research	4 4 4 4 10	2 2 2 2 5

Elective units

Electives may be taken from any other course offered by the University in consultation with the Course Coordinator.

Part-Time Course Structure

Year 3, Ser CNB009 CNB013 CNB341 CNB342 CNB442/1 PSB904	mester 1 Measurement of Construction 3 Building Services 1 – HVAC Building & Civil Engineering Construction Law 2 – Principles & Property Valuation & Dilapidations Surveying & Measuring	4 4 4 3 4 4	2 2 2 1.5 2 2
Year 3, Ser CNB010 CNB014 CNB343 CNB347 CNB442/2 CNB520	mester 2 Measurement of Construction 4 Building Services 2 – Electrical Economics of the Construction Industry OR Elective Hygiene & Sanitation Valuation & Dilapidations 2 Specifications	4 4 4 4 1 3	2 2 2 2 2
Year 4, Se CNB701 CNB403 CNB440/1	mester 1 Civil Engineering Quantities 1 Building Management 1 Law 3 – Building Contracts	4 4 3	2 2 1

CNB443 CNB451 CNB461	Building Services 3 Computer Software Applications 1 Measurement of Construction 5	5 4 3	2.5 2 1.5
Year 4, Se CEB901 CNB301 CNB404 CNB440/2 CNB446 CNB462	mester 2 Civil Engineering Quantities 2 PM1 – Advanced Construction Methods Building Management 2 Law 3 – Building Contracts Estimating 1 Measurement of Construction 6	4 4 4 3 5 3	2 2 2 1 2.5 1.5
Year 5, Se CNB444 CNB501 CNB527 CNB540 CNB545	mester 1 Mechanical & Electrical Estimating OR Elective Building Management 3 PM2 – Quantitative Techniques Estimating 2 PM3 – Construction Planuing Techniques 1	4 4 3 5 7	2 1.5 2.5 3.5
Year 5, Se CNB502 CNB524 CNB526 CNB543 CNB552 CNB643	Building Management 4 Measurement of Construction 7 Post Contract Services 1	4 4 5 3 3 3	2 2 2.5 1.5 1.5
Year 6, Se CNB603 CNB623 CNB647 CNB653 CNB656/1	mester 1 Building Management 5 PM6 – Building Development Techniques 1 Cost Planning & Cost Control 1 Post Contract Services 2 Building Research	4 4 4 5 8	2 2 2 2.5 4
Year 6, Se CNB452 CNB624 CNB648 CNB656/2	mester 2 Computer Software Applications 2 PM7 – Building Development Techniques 2 Cost Planning & Cost Control 2 Building Research	4 4 4 10	2 2 2 5

Elective units

Electives may be taken from any other course offered by the University in consultation with the Course Coordinator.

■ Bachelor of Architecture (AR48)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus **Course Duration:** 6 years part-time

Total Credit Points: 384

Standard Credit Points/Part-Time Semester: 32

Course Coordinator: Mr Dan Nutter

Professional Recognition

On completion of the course and one year's postgraduate practical experience, graduates are eligible to apply for associate membership of the Royal Australian Institute of Architects and are eligible to apply to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

A Bachelor of Architecture student must be engaged in approved employment for at least 48 recognised weeks within the first three years (ARB795 Approved Employment A) and for at least 72 recognised weeks within the second three years (ARB796 Approved Employment B). For details refer to the Section 'Course Requirements and Notes relating to Undergraduate Courses'.

Segmented Course Units

Where course units contain discrete segments identified in the synopsis, students are generally expected to pass all segments in order to pass the course unit.

The final grade for the unit will be aggregated from the grades attained in the segments undertaken.

Course St	ructure	Credit Points	Contact Hrs/Wk
Year 1, Sep ARB001 ARB011 ARB021 COB163	mester 1 Architectural Design 1 Contextual Studies 1 Technology & Science 1 Professional Writing	12 6 8 6	8 3 3 1.5
Year 1, Se ARB002 ARB012 ARB022	mester 2 Architectural Design 2 Contextual Studies 2 Technology & Science 2	12 8 12	8 3 5
Year 2, Sep ARB003 ARB013 ARB023	mester 1 Architectural Design 3 Contextual Studies 3 Technology & Science 3	12 8 12	6 4 4
Year 2, Se ARB004 ARB014 ARB024	mester 2 Architectural Design 4 Contextual Studies 4 Technology & Science 4	12 8 12	6 4 4
Year 3, Se ARB005 ARB015 ARB025	mester 1 Architectural Design 5 Contextual Studies 5 Technology & Science 5	12 8 12	6 2 6
Year 3, Se ARB006 ARB016 ARB026 ARB795	mester 2 Architectural Design 6 Contextual Studies 6 Technology & Science 6 Approved Employment A	12 8 12 36	6 3 5
Year 4, Se ARB007/1 ARB017 ARB031/1 ARB045	mester 1 Architectural Design 7 Contextual Studies 7 Professional Studies 1 Elective A	12 6 8 6	6 2 3 2
Year 4, Se ARB007/2 ARB027 ARB031/2 ARB046	mester 2 Architectural Design 7 Technology & Science 7 Professional Studies 1 Elective B	12 6 8 6	6 2 3 2
Year 5, Se ARB008/1 ARB032/1 ARB047 ARB051	mester 1 Architectural Design 8 Professional Studies 2 Elective C Research Methods	12 8 6 6	6 3 2 2

Year 5, Sei	mester 2			
	Architectural Design 8	12	6	
ARB018	Contextual Studies 8	6	2 3	
ARB032/2 ARB052	Professional Studies 2 Architectural Research 1	8 6	2	
		U	2	
Year 6, Sei				
	Professional Studies 3	_8	2	
ARB053	Architectural Research 2	24	6	
Year 6, Semester 2				
ARB033/2	Professional Studies 3	8	2	
ARB054	Architectural Project	24	6	
ARB796	Approved Employment B	60		

■ Bachelor of Architecture (AR41)

Course Discontinued: No further intakes. This course has been replaced by the Bachelor of Architecture (AR48). Years 4 to 6 are offered to continuing students only.

Location: Gardens Point campus **Course Duration:** 6 years part-time

Total Credit Points: 288

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Dan Nutter

Professional Recognition

On completion of the course and one year's postgraduate practical experience graduates are eligible for associate membership of the Royal Australian Institute of Architects and are eligible to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

A student must be engaged in approved employment for 11 months per year for four of the six years of the course, including one of the two final years. Approved employment is defined as working under the direction of an architect or, for a period not exceeding six months, gaining experience in a related field approved by the Head of School. Students should work under the same employer for at least six months. Students **must enrol** in approved employment units in the semester (or summer school period) in which they expect to finalise the specific approved employment unit involved, so that they can be credited with a result for the unit. All necessary documentation must be forwarded to the Course Coordinator in time for the unit to be finalised by the end of the semester in which the student is enrolled.

Course Structure		Credit Points	Contact Hrs/Wk	
Year 4, Ser	mester 1			
ARB491/1	History of Architecture & Art 3	2	1	
ARB493/1	Design 7	10	5	
ARB495/1	Professional Studies 1	8	4	
ARB497/1	Advanced Technology	4	2	
Year 4, Semester 2				
ARB491/2	History of Architecture & Art 3	2	1	
ARB493/2	Design 7	10	5	
ARB495/2	Professional Studies 1	8	4	
ARB497/2	Advanced Technology	4	2	

Year 5, Se	mester 1			
	History of Architecture & Art 4	2	1	
ARB593/1		10	1 5 4 2	
	Professional Studies 2 Elective 1A	8 4	4	
		7	2	
Year 5, Se				
	History of Architecture & Art 4	2 10	1 5 4 2	
ARB593/2	Professional Studies 2	8	4	
ARB598		4	2	
Year 6, Se	moster 1			
ARB693		16	5	
	Professional Studies 3	4	5 2 2	
ARB697/1		4	2	
Year 6, Se	mester 2			
,	Professional Studies 3	4	2	
ARB697/2	Elective 2	20	2 5	
Approved Employment Units				
ARB791	Approved Employment 1			
ARB792	Approved Employment 2			
ARB793	Approved Employment 3			
ARB794	Approved Employment 4			

■ Bachelor of Built Environment (BN30)

With majors in: Architectural Studies, Industrial Design, Interior Design, Landscape Architecture, and Urban and Regional Planning.

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus **Course Duration:** 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Dan Nutter

Professional Recognition

ARCHITECTURAL STUDIES MAJOR

Upon successful completion of the Bachelor of Built Environment (Architectural Studies) students are eligible to apply for entry to the fourth year of the part-time Bachelor of Architecture course.

Upon completion of the final three years of the Bachelor of Architecture course, during which time students have been employed in an approved professional practice for a minimum of 72 recognised weeks, the academic requirements for membership of professional bodies are met.

INDUSTRIAL DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Industrial Design) satisfies the entry requirement for the Graduate Diploma in Industrial Design, graduates of which are eligible for Associate Membership of the Design Institute of Australia.

INTERIOR DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Interior Design) satisfies the requirements for entry into the Graduate Diploma in Interior Design, which is accredited by the Design Institute of Australia.

LANDSCAPE ARCHITECTURE MAJOR

Successful performance in the Bachelor of Built Environment (Landscape Architecture) enables students to gain entry to the Graduate Diploma/Masters courses. The Graduate Diploma in Landscape Architecture is the only course in Landscape Architecture in Queensland, and one of the courses in Landscape Architecture accredited by the Australian Institute of Landscape Architects.

URBAN AND REGIONAL PLANNING MAJOR

Successful completion of the Bachelor of Built Environment (Urban and Regional Planning) enables students to gain entry to the Graduate Diploma/Masters in Urban and Regional Planning, which is fully accredited by the Royal Australian Planning Institute.

Segmented course units

Where course units contain discrete segments identified in the synopsis, students are generally expected to pass all segments in order to pass the course unit. Detailed requirements are issued by the School.

Course Structure		Credit Points	Contact Hrs/Wk
ARCHITE	CTURAL STUDIES MAJOR		
Year 1, Se	emester 1		
ARB001	Architectural Design 1	12	8
ARB011	Contextual Studies 1	6	3
ARB021	Technology & Science 1	8	3
ARB061	Architectural Applications 1	12	3 3 4 1.5
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
Year 1, Se			
ARB002	Architectural Design 2	12	8
ARB012	Contextual Studies 2	8	3 5 4
ARB022	Technology & Science 2	12	5
ARB062	Architectural Applications 2	8	4
ARB071	Environmental Studies	6	2
Year 2, Se	emester 1		
ARB003	Architectural Design 3	12	6
ARB013	Contextual Studies 3	. 8	4
ARB023	Technology & Science 3	12	4 2
ARB041	Elective 1	6	2 4
ARB063	Architectural Applications 3	12	4
Year 2, Se		10	,
ARB004 ARB014	Architectural Design 4 Contextual Studies 4	12 8	6 4
ARB014 ARB024	Technology & Science 4	12	4
ARB042	Elective 2	6	4 2
ARB064	Architectural Applications 4	8	4
Year 3, Se			
ARB005	Architectural Design 5	12	6
ARB015	Contextual Studies 5	8	
ARB025	Technology & Science 5	12	3 6
ARB043	Elective 3	6	2
ARB065	Architectural Applications 5	12	4
Year 3, Se	emester 2		
ARB006	Architectural Design 6	12	6
ARB016	Contextual Studies 6	8	2
ARB026	Technology & Science 6	12	2 5 2
ARB044	Elective 4	6	2 4
ARB066	Architectural Applications 6	8	4

INDUSTRIAL DESIGN MAJOR Year 1. Semester 1 ARB141 The Human Environment 1 6 ARB 147 History of the Built Environment 1 6 3 6 **ARB168** Technology & Science 1 12 **ARB177** Introductory Industrial Design 1 18 9 COB163 Professional Writing 1.5 6 Year 1, Semester 2 ARB241 History of the Built Environment 2 6 3 2 ARB249 The Human Environment 2 6 2 ARB251 Ergonomics for Industrial Designers 1 6 **ARB268** 6 Technology & Science 2 12 ARB277 Introductory Industrial Design 2 18 9 Year 2, Semester 1 ARB291 The Human Environment 3 2 6 ARB350 8 Industrial Design 1 18 ž ARB351 Ergonomics for Industrial Designers 2 6 **ARB353** Manufacturing Technology 1 12 6 ARB354 Computer-aided Industrial Design 1 6 2 Year 2, Semester 2 ARB292 The Human Environment 4 2 6 8 ARB450 Industrial Design 2 18 ARB453 Manufacturing Technology 1 12 6 ARB454 Computer-aided Industrial Design 2 6 2 **ARB457** Elective 117 2 6 Year 3, Semester 1 ARB550 8 Industrial Design 3 18 ARB553 5 2 Manufacturing Technology 3 12 Computer-aided Industrial Design 3 **ARB554** 6 ARB556 Product Analysis & Development 6 2 2 ARB557 Elective 217 6 Year 3, Semester 2 2 ARB646 Law of the Built Environment 6 8 5 ARB650 Industrial Design 4 18 ARB653 Manufacturing Technology 4 12 **ARB654** 2 Computer-aided Industrial Design 4 6 Elective 317 2 ARB657 6 INTERIOR DESIGN MAJOR Year 1, Semester 1 **ARB 141** The Human Environment 1 6 2 2 ARB146 Introduction to Interior Technology 1 6 **ARB147** 6 History of the Built Environment 1 3 ARB 161 Light & Colour Studies 1 6 **ARB176** Introductory Interior Design 1 18 9 COB163 Professional Writing 6 1.5 Year 1. Semester 2 ARB241 History of the Built Environment 2 6 3 **ARB246** 5 Introduction to Interior Technology 2 12 2 **ARB249** The Human Environment 2 6 ARB267 3 Light & Colour Studies 2 6 ARB276 9 Introductory Interior Design 2 18 Year 2, Semester 1 Elective 117 ARB041 6 2 ARB360 Interior Design 1 18 8 ARB361 Interior Technology 1 12 6

¹⁷ Electives must be approved by the relevant Major Coordinator.

ARB362 ARB291	Furniture & Fittings 1 The Human Environment 3	6 6	2 2
Year 2, Se	emester 2		
ARB042	Elective 218	6	2
ARB460	Interior Design 2	18	8
ARB461	Interior Technology 2	12	2 8 6 2 2
ARB462	Furniture & Fittings 2	6	2
ARB292	The Human Environment 4	6	2
Year 3, Se	emester 1		
ARB043	Elective 3 ¹⁸	6	2 7
ARB560	Interior Design 3	18	7
ARB561	Interior Technology 3	12	6 2 2
ARB562	Furniture & Fittings 3	6	2
ARB663	Research Methods	6	2
Year 3, Se	mester 2		
ARB044	Elective 4 ¹⁸	6	2 2 7 6 2
ARB646	Law of the Built Environment	6	2
ARB660	Interior Design 4	18	7
ARB661	Interior Tezchnology 4	12	6
ARB662	Furniture & Fittings 4	6	2
	PE ARCHITECTURE MAJOR		
Year 1, Se		_	_
MAB195	Quantitative Methods 1	6	3 6 3 2
PHB144	Applied Science for Designers 1	6	3
PSB010	Introductory Design 1	12	0
PSB016	History of the Built Environment 1	6 4	3
PSB050	The Human Environment 1	2	1
PSB070	Map & Air Photo Interpretation	۷	1
Year 1, Se			_
CHB292	Applied Science for Designers 2	4	2 3
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054 PSB056	Environmental Science	4	3 2 2 1
-	Applied Land Science for Designers	•	1
Year 2, Se		0.1	0
PSB012	Planning & Landscape Design 1	21	9 1 3 3 4
PSB030	Introduction to the Professions	3 6	1 2
PSB040	Graphic Communication The Human Environment 3	6	3
PSB052 PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	ī
Year 2, Se		_	-
PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	3
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	6 2 3 2 1 2 2
PSB073	Computer Techniques	4	2
Year 3, So	emester 1		
PSB014	Planning & Landscape Design 3	20	6
PSB018	Land Use Generation	4	2
PSB041	Report Preparation	2	1

¹⁸ Electives must be approved by the relevant Major Coordinator.

PSB074	Land Development	8	3
PSB244	Landscape Graphics	6	3 2
PSB275	Landscape Construction 1	6	3
Year 3, Se	emester 2		
ARB646	Law of the Built Environment	4	2
PSB015	Planning & Landscape Design 4	20	$\bar{6}$
PSB019	Planting Design	3	1
PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2 2 5	1
PSB061	Impacts & Assessment	5	2
PSB276	Landscape Construction 2	6	3
PSB280	Elective Unit (Landscape Architecture) ¹⁹	4	2
IIRRAN AI	ND REGIONAL PLANNING MAJOR		
Year 1, Se	-		
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PHB 144	Applied Science for Designers 1	. 6	3
PSB010	Introductory Design 1	ıž	3 6 3 2
PSB016	History of the Built Environment 1	6	š
PSB050	The Human Environment 1	4	2
PSB070	Map & Air Photo Interpretation	2	ī
Year 1, Se	emester 2		
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054	Environmental Science	4	2
PSB056	Applied Land Science for Designers	4	1
Year 2, Se	emester 1		
PSB012	Planning & Landscape Design 1	21	9
PSB030	Introduction to the Professions	3	1
PSB040	Graphic Communication	6	3
PSB052	The Human Environment 3	6	3
PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	1
Year 2, Se	emester 2		
PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	2 3 2
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	2
PSB073	Computer Techniques	4	2
Year 3, Se		20	,
PSB014 PSB018	Planning & Landscape Design 3 Land Use Generation	20	6 2
PSB041	Report Preparation	4	
PSB062	Economics of Town Planning	2 5	1
PSB074	Land Development	8	2
PSB077	Transport Planning	6	2
PSB190	Elective Unit (Planning) ¹⁹	3	1 2 3 2 2
	•	,	L
Year 3, Se		À	
ARB646	Law of the Built Environment	4	2 6
PSB015	Planning & Landscape Design 4	20	0
10			

¹⁹ Electives must be approved by the relevant Major Coordinator.

PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2	1
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB078	Urban Land Development	6	2

■ Bachelor of Engineering (Aerospace Avionics) (EE43)

Location: Gardens Point campus **Course Duration:** 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Farhan Faruqi

Note: Continuing students should refer to their course summary sheets or contact the School of Electrical and Electronic Systems Engineering for enrolment details.

Course St	ructure (Commencing Students)	Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
BNB004 CEB184 CHB002 EEB101	Technology & Society Engineering Mechanics 1 Introduction to Engineering Chemistry ²⁰ Circuits & Measurements	8 8 (2) 8	3 3 (1) 3
MAB 103 MAB 187 PHB 134	Introductory Engineering Mathematics ²¹ Engineering Mathematics 1A Engineering Physics 1B	(8) 8 8	(3) 4 3
Select one MEB181 MEB134	unit from the following: Engineering Communication Materials 1	8 8	4 3
Year 1, Se	mester 2		
CSB192 EEB210 EEB270 MAB188 PHB234	Introduction to Computing Network Analysis Digital Design Principles Engineering Mathematics 1B Engineering Physics 2B	8 8 8 8	3 4 3 4 3
	unit not undertaken in Semester 1:	0	3
MEB134 MEB181	Materials 1 Engineering Communication	8 8	3 4
Year 2, Se	mester 1		
EEB375 EEB310 EEB362 EEB390 MAB485 MEB362	Electronics 1 Network Synthesis Introduction to Telecommunications Engineering Computing 1 Engineering Mathematics 2A Thermofluids	8 8 8 8 8	4 4 3 3 3 3
		o	3
Year 2, Se EEB476 EEB420 EEB475	mester 2 Electronics 2 Control Systems 1 Microprocessor Systems	8 8 8	4 3 3

²⁰ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

²¹ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

EEB692 MAB486 MEB454	Space Technology Engineering Mathematics 2B Aerodynamics 1	8 8 8	3 3 3
Year 3, Ser EEB565 EEB582 MAB893 MEB553 MEB690	Signals & Linear Systems Aerospace Design 1 Engineering Mathematics 3 Aerodynamics 2 Aircraft Systems Elective Unit 1 (select from List A)	8 8 8 8 8	3 3 3 3 3
Year 3, Ser EEB624 EEB665 EEB668 EEB683 MEB551	Control Systems 2 Transmission & Propagation Digital Signal Processing Aerospace Design 2 Propulsion & Engines Elective Unit 2 (select from List B)	8 8 8 8 8	3 3 3 3 3
Year 4, Ser EEB380 EEB682 EEB780 EEB787/1	mester 1 Engineering Management Skills Engineering Business Skills Aerospace Design 3 Project Elective Unit 3 (select from List C) Elective Unit 4 (select from List C)	8 8 8 8 8	3 3 4 3 3
Year 4, Ser EEB787/2 EEB820 EEB821	mester 2 Aerospace Project Engineering Management Production Technology & Quality Elective Unit 5 (select from List D) Elective Unit 6 (select from List D)	16 8 8 8 8	6 3 3 3 3
ELECTIVE List A, 'A' EEB691 EEB564		8 8	3
List B, 'A' EEB722 EEB967 EEB974	Electives Flight Control Systems Digital Communications VLSI Circuits & Systems	8 8 8	3 3 3
List C, 'A' PSB911 EEB662 EEB730 EEB762 EEB763 EEB971	Remote Sensing Microwave & Antenna Technology Radar & Radio Navigation Communications Technology Modern Signal Processing Applied Electronics	8 8 8 8 8	3 3 3 3 3
Select one MEB790	of the following units: Spacecraft & Satellite Design A third year 'A' Elective not yet attempted 'B' Elective offered by the divisions (See list below for units offered. These will normally be run if enrolments are sufficient. Only one 'B' elective may be chosen.)	8	3
List D, 'A' EEB822 EEB891 EEB892 EEB932 EEB933 EEB934	* Electives Advanced Control Systems Signal Computing & Real Time DSP Advanced Engineering Computing 2 Automatic Flight Control Combat Systems Advanced Communications Navigations	8 8 8 8	3 3 3 3 3

Select one EEB935	of the following units: Advanced Satellite Systems A third year 'A' Elective not yet attempted 'B' Elective offered by the divisions	8	3
'B' Electiv	ves		
BNB003	Professional Practice in Asia/Pacific	8	3
EEB761	Statistical Communications	8	3
EEB890	Advanced Information Technology Topics	8	3
EEB956	Photovoltaic Engineering	8	3
EEB962	Microwave Systems Engineering	8	3
EEB969	Signal Filtering & Estimation	8	3
EEB999	Advanced Electrical Engineering Topics	8	3

Also, potential Honours students may, with the approval of the Course Coordinator, select an elective from the postgraduate degree courses offered by the School of Electrical and Electronic Systems Engineering.

■ Bachelor of Engineering (Civil) (CE42)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Associate Professor David Thambiratnam

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia.

Note: The course structure listed below was introduced in 1995. Students who enrolled in the course prior to 1995 should refer to their course summary sheet or contact the School of Civil Engineering for enrolment details.

Environmental Engineering Major

Students may elect to enter the environmental major of the course at the end of Year 1 full-time. This will involve taking, over the length of the course, 96 credit points of alternative core units, prescribed elective units from the main course and some environmental based topics in design units and project. Further information about the Environmental Engineering major is available from the School of Civil Engineering.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics 1 ²²	8	4
CHB002	Introduction to Engineering Chemistry ²³	(2)	(1)

To spread the load on the computer laboratories, students will be allocated to one or other of MEB181 or MEB134.

²³ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

EEB101 MAB103	Circuits & Measurements Introductory Engineering Mathematics ²⁴	8 (8)	3 (3)
MAB187 PHB134	Engineering Mathematics 1A ²⁵ Engineering Physics 1B	8 8	4 3
	unit from the following:		
MEB134	Materials 1 ²⁵	8	3 4
MEB181	Engineering Communication	8	4
Year 1, Se	mester 2		
CEB185	Engineering Mechanics 2 ²⁶	8	4
ESB229	Geology for the Built Environment	8	3 4
MAB188	Engineering Mathematics 1B	8	4
PSB907 SCB246	Surveying Engineering Physics & Chemistry	8	3 3
	Engineering Physics & Chemistry	8	3
	unit not undertaken in Semester 1:	0	2
MEB134	Materials 125	8 8	3 4
MEB181	Engineering Communication	-	4
Students n	ot enrolled for the Environmental Major complete	these units:	
Year 2, Se	mester 1		
CEB221	Engineering Investigation Analysis & Reporting	8	4
CEB240	Soil Mechanics 1 ²⁷	8	3.5
CEB254	Structural Engineering 1	8	3.5
CEB260	Fluid Mechanics	8	3.5
CEB293 MAB487	Civil Engineering Materials	8 8	4
	Engineering Mathematics 2A	8	3
Year 2, Se		_	
CEB201	Steel Structures	8	3.5
CEB202	Concrete Structures 1	8	3.5
CEB211	Highway Engineering	8	4
CEB241	Soil Mechanics 2	8	3
CEB255	Structural Engineering 2	8 8	3.5 3.5
CEB261	Hydraulic Engineering 1	0	5.5
Year 3, Se			
CEB304/1	Civil Engineering Design 1	8	4
CEB306 CEB309	Concrete Structures 2	8 8	3 3.5
CEB369 CEB362	Construction Practice Hydraulic Engineering 2	8	3.3
CEB373	Public Health Engineering	8	3.5
MAB893	Engineering Mathematics 3	8	3.3
Year 3, Se	mester 2		
CEB304/2	Civil Engineering Design 1	8	4
CEB316	Construction Planning & Economics ²⁷	8	3
CEB315	Traffic Engineering	8	4 3 3 3 3
CEB342	Geotechnical Engineering 1	8	3
CEB356	Structural Engineering 3	8	3
CEB371	Water & Wastewater Systems	8	3
Year 4, Se	mester 1		
CEB402	Professional Practice	8	3
CEB408/1	Civil Engineering Design 2	8	3

²⁴ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

²⁵ To spread the load on the computer laboratories, students will be allocated to one or other of MEB181 or MER134

²⁶ Students who have not successfully completed these units may enrol in Summer School units. Details are available from the Course Coordinator.

²⁷ Safety boots must be worn for practical exercises and field trips.

CEB407 CEB493/1	Structural Applications Project (Civil) Elective Unit Elective Unit	8 8 8	3 3
Year 4, Se CEB401 CEB408/2 CEB493/2	mester 2 Design Project Civil Engineering Design 2 Project (Civil) Elective Unit Elective Unit Elective Unit Elective Unit	8 8 8 8	3 3 3
Students er	nrolled for the Environmental Major complete these units:		
Year 2, Se CEB221 CEB240 CEB254 CEB260 CEB293 MAB487	mester 1 Engineering Investigation Analysis & Reporting Soil Mechanics 1 ²⁸ Structural Engineering 1 Fluid Mechanics Civil Engineering Materials Engineering Mathematics 2A	8 8 8 8 8	4 3.5 3.5 3.5 4 3
Year 2, Se			
CEB201 CEB202 CEB241 CEB255 CEB261 CEB270	Steel Structures Concrete Structures 1 ²⁸ Soil Mechanics 2 Structural Engineering 2 Hydraulic Engineering 1 Environmental Science	8 8 8 8	3.5 3.5 3.5 3.5 3.5
Year 3, Se		_	
CEB304/1 CEB309 CEB362 CEB373 CEB372 MAB893	Civil Engineering Design 1 Construction Practice Hydraulic Engineering 2 Public Health Engineering Environmental Technology Engineering Mathematics 3	8 8 8 8	3.5 3.5 3.5 3.5 3
Year 3, Se		_	
CEB211 CEB304/2 CEB316 CEB315 CEB371 CEB543	Highway Engineering Civil Engineering Design 1 Construction Planning & Economics ²⁸ Traffic Engineering Water & Wastewater Systems Environmental Geohydrology	8 8 8 8	3.5 3 3 3 3
Year 4, Se		0	2
CEB402 CEB407 CEB475/1 CEB493/1 CEB561 CEB570	Professional Practice Structural Applications Environmental Engineering Design Project (Civil) Coastal Engineering Waste Management	8 8 8 8	3 3 4 3 3 3
Year 4, Se		_	_
CEB342 CEB471 CEB475/2 CEB493/2 CEB502 CEB575	Geotechnical Engineering 1 Environmental Design Project Environmental Engineering Design Project (Civil) Project Control Environmental Impact Assessment	8 8 8 8 8	3 3 3 3 3

²⁸ Safety boots must be worn for practical exercises and field trips.

Part-Time Course Structure

Part-Inne	Course Structure		
Year 1, Se BNB004 CEB184 CHB002 EEB101 MAB103 MAB187 MEB181	mester 1 Technology & Society Engineering Mechanics 1 Introduction to Engineering Chemistry ²⁹ Circuits & Measurements Introductory Engineering Mathematics ³⁰ Engineering Mathematics 1A Engineering Communication ³¹	8 8 (2) 8 (8) 8	3 4 (1) 3 (3) 4 4
Year 1, Se CEB185 ESB229 MAB188 MEB133	mester 2 Engineering Mechanics 2 Geology for the Built Environment Engineering Mathematics 1B Materials ³²	8 8 8	4 3 4 3
Year 2, Ser CEB254 CEB293 PHB134	Structural Engineering 1 Civil Engineering Materials Engineering Physics 1B	8 8 8	3.5 4 3
Year 2, Se CEB202 CEB255 PSB907 SEB246	mester 2 Concrete Structures 1 Structural Engineering 2 Surveying Engineering Physics & Chemistry	8 8 8	3.5 3.5 3
Year 3, Se CEB221 CEB240 CEB260 MAB487	mester 1 Engineering Investigation Analysis & Reporting Soil Mechanics 1 ³² Fluid Mechanics4 Engineering Mathematics	8 8 8	4 3.5 3.5 3
Year 3, Se CEB201 CEB211 CEB241 CEB261	mester 2 Steel Structures Highway Engineering Soil Mechanics 2 Hydraulic Engineering 1	8 8 8	3.5 4 3 3.5
Year 4, Se CEB306 CEB362 CEB370 MAB893	mester 1 Concrete Structures 2 Hydraulic Engineering 2 Public Health Engineering Engineering Mathematics 3	8 8 8 8	3 3 3.5 3
Year 4, Se CEB305 CEB315 CEB342 CEB371	mester 2 Construction Planning & Economics ³² Traffic Engineering Geotechnical Engineering 1 Water & Wastewater Systems	8 8 8 8	3 3 3 3
Year 5, Se CEB304/1 CEB309 CEB402 CEB407	mester 1 Civil Engineering Design 1 Construction Practice Professional Practice Structural Applications	8 8 8 8	3.5 3.5 3 3

²⁹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

³⁰ MAB 103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

³¹ To spread the load on the computer laboratories, students will be allocated to one or other of MEB181 or MEB134.

³² Safety boots must be worn for practical exercises and field trips.

Year 5, Sea	mester 2		
CEB304/2	Civil Engineering Design 1	8	3.5
CEB355	Structural Engineering 3	8	3
	Elective Unit	8	
	Elective Unit	8	
Year 6, Se	mester 1		
		8	4
CEB493/2	Project (Civil)	8	3
	Elective Unit	8	
	Elective Unit	8	
Year 6, Se	mester 2		
CEB401	Design Project	8	3
CEB408/2	Civil Engineering Design 2	8	3
CEB493/2	Project (Civil)	8	3
	Elective Unit	8	

Note: Part-time students who wish to do the Environmental Major must discuss their program with the Course Coordinator.

Elective Units		Credit Points	Contact Hrs/Wk
First Seme	ester		
BNB003	Professional Practice in Asia/Pacific	8	3
CEB501	Civil Engineering Practice 1	8	3 3 3 3 3
CEB505	Project Management & Administration	8	3
CEB512	Transport Engineering 1	8	3
CEB520	Finite Element Methods	8	3
CEB541	Geotechnical Engineering 2	8	3
CEB561	Coastal Engineering	8	3
Second Se	mester		
CEB502	Project Control	8	3
CEB503	Advanced Construction Methods	8	3
CEB506	Civil Engineering Practice 2	8	3
CEB511	Transport Engineering 2	8	3
CEB531	Masonry Design	8	3
CEB542	Geotechnical Engineering 3	8	3
CEB543	Environmental Geohydrology	8	3
CEB551	Advanced Structural Design	8	3
CEB560	Hydraulic Engineering 3	8	3
CEB570	Waste Management	8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CEB575	Environmental Impact Assessment	8	3

Note:

- 1. Students' elective programs are subject to approval by the Course Coordinator.
- 2. Students may choose approved units from Mathematics, Computing or other degrees subject to approval by the Course Coordinator.

■ Bachelor of Engineering (Civil) (CE43) (Mid-year Entry)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus **Course Duration:** 3.5 years full-time

Total Credit points: 384

Course Coordinator: Associate Professor David Thambiratnam

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia.

Environmental Engineering Major

Students may elect to enter the environmental major of the course at the end of Year 1. This will involve taking, over the length of the course, 96 credit points of alternative core units, prescribed elective units from the main course and some environmental-based topics in design units and project.

Year 1, Se	mester 2				
BNB004	Technology & Society	8	3		
CEB184	Engineering Mechanics 1	8	3		
MAB103	Introductory Engineering Mathematics ³³ OR	(8)	(3)		
MAB187	Engineering Mathematics 1A	8	4		
MEB181	Engineering Communication	8	3		
PHB134	Engineering Physics 1B	8	4 3 3 3		
PSB907	Surveying	8	3		
ESB229	Geology in the Built Environment	8	3		
Summer S	School				
CEB240	Soil Mechanics 1	8	3.5		
CHB002	Introduction to Engineering Chemistry ³⁴	(2)	(1)		
MAB188	Engineering Mathematics 1B	8	3		
Year 2, Se	mester 1				
MEB134	Materials 1	8	3		
CEB221	Engineering Investigation Analysis & Reporting	8	4		
CEB254	Structural Engineering 1	8	3.5		
CEB260	Fluid Mechanics	8	3.5		
CEB293	Civil Engineering Materials	8	4		
MAB487	Engineering Mathematics 2A	8	4 3 3		
EEB101	Circuits & Measurements	8	3		
Students N	IOT enrolled in the environmental major should fol	low this course s	tructure		
Year 2, Se	Year 2, Semester 2				
CEDAGI	Ctaal Ctaratures	O	2.5		

	· ·		
Year 2, Se	mester 2		
CEB201	Steel Structures	8	3.5
CEB202	Concrete Structures 1	8	3.5
CEB241	Soil Mechanics 2	8	3
CEB211	Highway Engineering	8	4
CEB255	Structural Engineering 2	8 8	3.5
CEB261	Hydraulic Engineering 1	8	3.5
SCB246	Engineering Physics & Chemistry	8	3
Year 3, Se	mester 1		
CEB304/1	Civil Engineering Design 1	8	3.5
CEB306	Concrete Structures 2	8 8 8 8	3
CEB309	Construction Practice	8	3.5
CEB362	Hydraulic Engineering 2	8	3
CEB370	Public Health Engineering 1		3.5
MAB893	Engineering Mathematics 3	8	3
Year 3, Se	mester 2		
CEB304/2	Civil Engineering Design 1	8	3.5
CEB305	Construction Planning & Economics	8	2
CEB315	Traffic Engineering	8	3

³³ This unit is to be taken by those students not obtaining a SA or better in Queensland Mathematics C.

³⁴ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

CEB342 CEB357 CEB371	Geotechnical Engineering Structural Engineering 3 Water & Wastewater Systems	8 8 8	3 3 3
Year 4, Se	mester 1		
CEB402 CEB408/1 CEB407 CEB493/1	Professional Practice Civil Engineering Design 2 Structural Applications Project (Civil) Elective Unit	8 8 8 8	3 3 3 3
	Elective Unit	8	3
Wass 4 Ca		Ü	
Year 4, Se CEB401	Design Project	0	2
CEB401 CEB408/2	Civil Engineering Design 2	8 8	3 3
CEB493/2	Project (Civil)	8	3
0	Elective Unit	8	3
	Elective Unit	8	3
	Elective Unit	8	3
	nrolled for the environmental major complete these units:		
Year 2, Se		_	_
CEB201	Steel Structures	8	3.5
CEB202 CEB241	Concrete Structures 1 Soil Mechanics 2	8 8	3.5
CEB255	Structural Engineering 2	8	3 3.5
CEB261	Hydraulic Engineering 1	8	3.3
CEB270	Environmental Science	8	3
SCB246	Engineering Physics & Chemistry	8	3
Year 3, Se	mester 1		
CEB304/1	Civil Engineering Design 1	8	3
CEB309	Construction Practice	8	3
CEB362	Hydraulic Engineering 2	8	3
CEB372	Environmental Technology	8	3 3 3
CEB373 MAB893	Public Health Engineering 1 Engineering Mathematics 3	8 8	3
		o	J
Year 3, Se		0	4
CEB211 CEB304/2	Highway Engineering	8 8	4
CEB304/2	Civil Engineering Design 1 Construction Planning & Economics	8	2
CEB315	Traffic Engineering	8	3 2 3 3
CEB371	Water & Wastewater Systems	8	3
CEB544	Environmental Geotechnology	8	3
Year 4, Se	emester 1		
CEB402	Professional Practice	8	3
CEB407	Structural Applications	8	3
CEB475/1	Environmental Engineering Design	8	4
CEB493/1 CEB561	Project (Civil) Coastal Engineering	8 8	3
CEB570	Waste Management	8	3 3 3
Year 4, Se		-	-
CEB342	Geotechnical Engineering 1	8	3
CEB471	Environmental Design Project	8	3
CEB475/2	Environmental Engineering Design	8	4
CEB493/2	Project (Civil)	8	3
CEB502	Project Control	8	3
CEB575	Environmental Impact Assessment	8	3

■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44)

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia and of the Institution of Radio and Electronics Engineers.

The alternative award name, Bachelor of Engineering (Electrical), meets the requirements for membership of the Singapore Professional Engineers Board.

Note: Continuing students should refer to their course summary sheets or contact the School of Electrical and Electronic Systems Engineering for enrolment details.

Full-Time	Course Structure (Commencing Students)	Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics	18	3 3
CHB002	Introduction to Engineering Chemistry ³⁵	(2)	(1) 3
EEB101	Circuits & Measurements	8	3
MAB103	Introductory Engineering Mathematics ³⁶	(8)	(3)
MAB187	Engineering Mathematics 1A	8	4
PHB134	Engineering Physics 1B	8	3
Select one	unit from the following:		
MEB181	Engineering Communication	8	4
MEB134	Materials 1	8	3
Year 1, Se	mester 2		
CSB192	Introduction to Computing	8	3
EEB210	Network Analysis	8	4
EEB270	Digital Design Principles	8	3
MAB188	Engineering Mathematics 1B	8	4
PHB234	Engineering Physics 2B	8	3
Select the	unit not undertaken in Semester 1		
MEB134	Materials 1	8	3
MEB181	Engineering Communication	8	4
Year 2, Se	mester 1		
EEB302	Electrotechnology 1	8	3
EEB310	Network Synthesis	8	4
EEB362	Introduction to Telecommunications	8	3
EEB375	Electronics 1	8	3 4 3 4 3 3
EEB390	Engineering Computing 1	8	3
MAB485	Engineering Mathematics 2A	8	3
Year 2, Se			
EEB400	Electrotechnology 2	8	3
EEB420	Control Systems 1	8	3
EEB475	Microprocessor Systems	8	3 3 4 3
EEB476	Electronics 2	8	4
MAB486	Engineering Mathematics 2B	8	3
MEB111	Dynamics	8	3

³⁵ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry, All other students must apply for an exemption from this unit.

³⁶ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C or its equivalent.

Voor 2 Co	mostor 1		
Year 3, Se EEB530	Engineering Electromagnetics	8	3
EEB565	Signals & Linear Systems	8	3 3
EEB587	Design 1	8	3
EEB593	Software Systems Engineering	8	3 3 3
MAB893	Engineering Mathematics 3	8	3
** 2.0	Elective Unit 1 (select from List A)	8	3
Year 3, Se		o	2
EEB624 EEB665	Control Systems 2 Transmission & Propagation	8 8	3 3
EEB668	Digital Signal Processing	8	3
EEB693	Real-time Operating Systems	8	3 3 3
EEB788	Design 2	8	3
	Elective Unit 2 (select from List B)	8	3
Year 4, Se		_	
EEB380	Engineering Management Skills	8 8	3 3
EEB682 EEB885	Engineering Business Skills Design 3	8	3
EEB889/1	Project	8	4
	Elective Unit 3 (select from List C)	8	3
	Elective Unit 4 (select from List C)	8	3
Year 4, Se	mester 2		
EEB820	Engineering Management	8	3
EEB881	Production Technology & Quality	8	3 6
EEB889/2	Project Elective Unit 5 (select from List D)	16 8	3
	Elective Unit 6 (select from List D)	8	3
	17.7000		
ELECTIVE			
List A, 'A EEB532	Power Systems 1	8	3
EEB552 EEB564	Information Theory Modulation & Noise	8	3
List B, 'A	*		
EEB632	Power Systems 2	8	3
EEB667	Digital Communications	8	3
EEB974	VLSI Circuits & Systems	8	3
	'Electives		_
EEB741	Power Systems Analysis	8	3 3
EEB752 EEB762	Power Electronics Communications Technology	8 8	3
EEB763	Modern Signal Processing	8	3
	OR a third year 'A' elective not yet completed		
	OR a 'B' elective. (See list below for B elective units.		
	These will only be offered if enrolments are sufficient. Only one 'B' elective may be chosen.)		
EEB765	Microwave & Antenna Technology	8	3
EEB791	Advanced Engineering Computing 1	8	3
List D, 'A	' Electives		
EEB822	Advanced Control Systems	8	3
EEB842 EEB869	Power Systems Engineering	8 8	3 3
EED003	Signal Filtering & Estimation OR a third year 'A' elective not yet completed	O	,
	OR a 'B' elective not yet completed.		
EEB871	Applied Electronics	8	3
EEB891 EEB892	Signal Computing & Real Time DSP Advanced Engineering Computing 2	8 8	3
		O	5
'B' Electi BNB003	ves Professional Practice in Asia/Pacific	8	3
EEB910	Photovoltaic Engineering	8	3
	5 0		

EEB923	Industrial Control Systems	8	3
EEB956	Microwave Systems Engineering	8	3
EEB957	High Voltage Equipment	8	3
EEB958	Electrical Energy Utilisation	8	3
EEB959	Power Electronics Applications	8	3
EEB963	Statistical Communications	8	3
EEB990	Advanced Information Technology Topics	8	3
EEB999	Advanced Electrical Engineering Topics	8	3

Also, potential Honours students may, with the approval of the Course Coordinator, select an elective from the postgraduate degree courses offered by the School of Electrical and Electronic Systems Engineering.

Part-Time	e Course Structure	Credit Points	Contac Hrs/W
Year 1, Se BNB004 CHB002 EEB101	mester 1 Technology & Society Introduction to Engineering Chemistry ³⁷ Circuits & Measurements	8 (2) 8	3
MAB103 MAB187 PHB134	Introductory Engineering Mathematics ³⁸ Engineering Mathematics 1A Engineering Physics 1B	(8) 8 8	(1) 3 (3) 4 3
Year 1, Se CSB192 EEB210 MAB188 PHB234	emester 2 Introduction to Computing Network Analysis Engineering Mathematics 1B Engineering Physics 2B	8 8 8	3 4 4 3
Year 2, Se EEB310 EEB362 MAB485 MEB134	emester 1 Network Synthesis Introduction to Telecommunications Engineering Mathematics 2A Materials 1	8 8 8	4 3 3 3
Year 2, Se EEB270 MAB486 MEB111 MEB181	emester 2 Digital Design Principles Engineering Mathematics 2B Dynamics Engineering Communication	8 8 8	3 3 3 4
Year 3, Se CEB184 EEB302 EEB375 EEB390	emester 1 Engineering Mechanics 1 Electrotechnology 1 Electronics 1 Engineering Computing 1	8 8 8	3 3 4 3
Year 3, Se EEB400 EEB420 EEB475 EEB476	emester 2 Electrotechnology 2 Control Systems 1 Microprocessor Systems Electronics 2	8 8 8	3 3 3 4
Year 4, Se EEB530 EEB565	emester 1 Engineering Electromagnetics Signals & Linear Systems	8 8	3 3

³⁷ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry, All other students must apply for an exemption from this unit.

³⁸ MAB 103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

EEB593 MAB893	Software Systems Engineering Engineering Mathematics 3	8 8	3 3
Year 4, Ser EEB624 EEB665 EEB668 EEB693	nester 2 Control Systems 2 Transmission & Propagation Digital Signal Processing Real-time Operating Systems	8 8 8	3 3 3 3
Year 5, Ser EEB380 EEB587 EEB682	nester 1 Engineering Management Skills Design 1 Engineering Business Skills Elective Unit 1 (select from List A)	8 8 8	3 3 3 3
Year 5, Sei EEB788 EEB820 EEB881	nester 2 Design 2 Engineering Management Production Technology & Quality Elective Unit 2 (select from List B)	8 8 8	3 3 3 3
Year 6, Sei EEB885 EEB889/1	nester 1 Design 3 Project Elective Unit 3 (select from List C) Elective Unit 4 (select from List C)	8 8 8	3 4 3 3
Year 6, Ser EEB889/2	nester 2 Project Elective Unit 5 (select from List D) Elective Unit 6 (select from List D)	16 8 8	6 3 3
ELECTIVE List A, 'A' EEB532 EEB564		8 8	3 3
List B, 'A' EEB632 EEB667 EEB974	Electives Power Systems 2 Digital Communications VLSI Circuits & Systems	8 8 8	3 3 3
List C, 'A' EEB741 EEB752 EEB762 EEB763	Electives Power Systems Analysis Power Electronics Communications Technology Modern Signal Processing OR a third year 'A' elective not yet completed OR a 'B' elective. (See list below for B elective units. These will only be offered if enrolments are sufficient. Only one 'B' elective may be chosen.)	8 8 8 8	3 3 3 3
EEB765 EEB791	Microwave & Antenna Technology Advanced Engineering Computing 1	8 8	3 3
List D, 'A' EEB822 EEB842 EEB869	Electives Advanced Control Systems Power Systems Engineering Signal Filtering & Estimation OR a third year 'A' elective not yet completed OR a 'B' elective not yet completed.	8 8 8	3 3 3
EEB871 EEB891 EEB892	Applied Electronics Signal Computing & Real Time DSP Advanced Engineering Computing 2	8 8 8	3 3 3
'B' Electiv BNB003 EEB910	es Professional Practice in Asia/Pacific Photovoltaic Engineering	8 8	3

EEB923	Industrial Control Systems	8	3
EEB957	High Voltage Equipment	8	3
EEB958	Electrical Energy Utilisation	8	3
EEB959	Power Electronics Applications	8	3
EEB963	Statistical Communications	8	3
EEB965	Microwave Systems Engineering	8	3
EEB990	Advanced Information Technology Topics	8	3
EEB999	Advanced Electrical Engineering Topics	8	3

Also, potential Honours students may, with the approval of the Course Coordinator select an elective from the postgraduate degree courses offered by the School of Electrical and Electronic Systems Engineering.

■ Bachelor of Engineering (Electrical and Computer Engineering) (EE45) (Mid-year Entry)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration: 3.5 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Electrical and Computer Engineering) must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester following each period of industrial employment/practice, submit to the Course Coordinator (through the Faculty Office) a report in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Records Forms are available from the Faculty Employment Officer in Room ITE1006.

Students should not formally enrol in industrial experience/practice.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se	mester 2		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics 1	8	3
CSB192	Introduction to Computing	8	3
EEB101	Circuits & Measurements	8	3
MAB103	Introductory Engineering Mathematics ³⁹ OR	(8)	(3)
MAB187	Engineering Mathematics 1A	8	4
PHB134	Engineering Physics 1B	8	3
PHB234	Engineering Physics 2B	8	3

³⁹ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

Year 1, Su	ımmer School		
CHB002	Introduction to Engineering Chemistry ⁴⁰	(2)	(1)
EEB210 EEB270	Network Analysis Digital Design Principles	8 8	4 3
MAB188	Engineering Mathematics 1B	8	4
Year 2, Se	emester 1		
EEB302	Electrotechnology 1	8	3
EEB310 EEB362	Network Synthesis Introduction to Telecommunications	8 8	4
EEB375	Electronics 1	8	3 4
EEB390	Engineering Computing 1	8	3
MAB485	Engineering Mathematics 2A	8	3
MEB181	unit from the following: Engineering Communication	8	4
MEB134	Materials 1	8	3
Year 2, Se	emester 2		
EEB400	Electrotechnology 2	8	3
EEB420	Control Systems 1	8	3 3
EEB475 EEB476	Microprocessor Systems Electronics 2	8 8	<i>3</i> 4
MAB486	Engineering Mathematics 2B	8	4
MEB111	Dynamics	8	3
Select the MEB134	unit not undertaken in Semester 1: Materials I	O	2
MEB134 MEB181	Engineering Communication	8 8	3 4
Year 3, Se			
EEB530	Engineering Electromagnetics	8	3
EEB565	Signals & Linear Systems	8	3
EEB587 EEB593	Design 1 Software Systems Engineering	8 8	3
MAB893	Engineering Mathematics 3	8	3 3 3 3 3
	Elective Unit 1 (select from List A)	8	3
Year 3, Se		0	2
EEB624 EEB665	Control Systems 2 Transmission & Propagation	8 8	3
EEB668	Digital Signal Processing	8	3
EEB693	Real-time Operating Systems	8	3 3 3 3
EEB788	Design 2 Elective Unit 2 (select from List B)	8 8	3
Year 4, Se		•	_
EEB380	Engineering Management Skills	8	3
EEB682 EEB885	Engineering Business Skills	8	3
EEB889/1	Design 3 Project	8 8	3 4
	Elective Unit 3 (select from List C)	8	3
** 4.0	Elective Unit 4 (select from List C)	8	3
Year 4, Se EEB820	emester 2 Engineering Management	8	2
EEB881	Production Technology & Quality	8	3
EEB889/2	Project	16	6
	Elective Unit 5 (select from List D) Elective Unit 6 (select from List D)	8 8	3 3 6 3 3
EI ÉCTIVE		G	J
ELECTIVE LISTS List A, 'A' Electives			
EEB532	Power Systems 1	8	3
EEB564	Information Theory Modulation & Noise	8	3

⁴⁰ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

List B, 'A' EEB632 EEB667 EEB974	Power Systems 2 Digital Communications VLSI Circuits & Systems	8 8	3 3
List C, 'A' EEB741 EEB752 EEB762 EEB763 EEB765 EEB791	Power Systems Analysis Power Electronics Communications Technology Modern Signal Processing Microwave & Antenna Technology Advanced Engineering Computing 1 OR a third year 'A' elective not yet completed OR a 'B' elective (See list below for 'B' elective unit. These will only be offered if enrolments are sufficient. Only one 'B' elective may be chosen.)	8 8 8 8 8	3 3 3 3 3
List D, 'A' EEB822 EEB842 EEB869	Electives Advanced Control Systems Power Systems Engineering Signal Filtering & Estimation OR a third year 'A' elective not yet completed OR	8 8 8	3 3 3
EEB871 EEB891 EEB892	a 'B' elective not yet completed. Applied Electronics Signal Computing & Real Time DSP Advanced Engineering Computing 2	8 8 8	3 3 3
'B' Electiv BNB003 EEB910 EEB923 EEB957 EEB958 EEB959 EEB963 EEB965 EEB990 EEB999	Professional Practice in Asia/Pacific Photovoltaic Engineering Industrial Control Systems High Voltage Equipment Electrical Energy Utilisation Power Electronics Applications Statistical Communications Microwave Systems Engineering Advanced Information Technology Topics Advanced Electrical Engineering Topics	8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3

Also, potential Honours students may, with the approval of the Course Coordinator select an elective from the postgraduate degree courses offered by the School of Electrical and Electronic Systems Engineering.

■ Bachelor of Engineering (Mechanical) (ME45)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration:

Normal Entry: 4 years full-time, 6 years part-time

Articulation from Bachelor of Technology (ME35): 3 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester:

Normal Entry: 48

Articulation from Bachelor of Technology (ME35): 24/32

Course Coordinator: Mr Jack Laracy

Professional Recognition

This degree is recognised for the purpose of membership of the Institution of Engineers, Australia.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Faculty Office) a report in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Experience Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office.

Students should not formally enrol in industrial experience.

Full-Time	Course Structure for Normal Entry	Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics 1	8	3
CHB002	Introduction to Engineering Chemistry ⁴¹	(2)	(1)
EEB101	Circuits & Measurements	` 8	` ź
MAB103	Introductory Engineering Mathematics ⁴²	(8)	3 (1) 3 (3) 4 3
MAB187	Engineering Mathematics 1A	· 8	4
MEB134	Materials 1	8	3
	OR		
MEB181	Engineering Communication	8	4 3
PHB134	Engineering Physics 1B	8	3
Year 1, Se	mester 2		
EEB209	Electrical Engineering 2M	8	3
MAB188	Engineering Mathematics 1B	8 8	3 4 3 4 4
MEB111	Dynamics	8	3
MEB213	Mechanics of Solids	8 8 8	4
MEB282	Design 1		
MEB134	Materials 1	8	3
3.000.00	OR	_	
MEB181	Engineering Communication	8	4
Year 2, Se	mester 1		
MAB487	Engineering Mathematics 2A	8	3
MEB314	Mechanics 1	8	4
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8 8 8	4 4 3
MEB381	Design 2	8	
MEB430	Materials 3	8	4

⁴¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

⁴² MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Oueensland Maths C.

Von 2 Co	moston 2		
Year 2, Sen MAB488	Engineering Mathematics 2B	8	3
MEB334	Materials 2	8	3 4 4 4 4
MEB455	Thermodynamics 2	8	4
MEB466 MEB473	Fluids 2 Manufacturing Engineering 1	8 8	4
MEB483	Design 3	8	3
Year 3, Ser	5		-
MAB893	Engineering Mathematics 3	8	3
MEB554	Heat Transfer	8	4
MEB572	Manufacturing Engineering 2 Mechanics 2	8 8	4 4
MEB613 MEB662	Fluid Power	8	4
1122002	Elective Unit (select from List A)	8	3
Year 3, Se	mester 2		
MEB512	Noise & Vibrations	8	4
MEB513	Stress Analysis	8 8	4 4
MEB641 MEB661	Automation 1 Tribology	8	4
MEB672	Total Quality Management	8	3
	Elective Unit (select from List B)	8	3/4
Year 4, Se			
FNB116	Financial Management for Engineers	8	2
MEB711 MEB801/1	Automation 2 Project	8 16	4 6
MEB912	Finite Element Analysis	8	3
	Elective Unit (select from List C)	8	3
Year 4, Se			
HRB111	Industrial Management	6	2 3 8
MEB775 MEB801/2	Technology Management Project	8 24	<i>3</i> 8
WILDOOM 2	Elective Unit (select from List D)	8	3
Part-Time	Course Structure for Normal Entry		
Year 1, Se	-		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics 1	8	3
CHB002	Introduction to Engineering Chemistry ⁴³	(2)	(1)
MAB103 MAB187	Introductory Engineering Mathematics ⁴⁴	(8) 8	(3) 4
MEB181	Engineering Mathematics 1A Engineering Communication	8	4
Year 1, Se			
MAB188	Engineering Mathematics 1B	8	4
MEB134	Materials 1	8	3
MEB213	Mechanics of Solids	8	4
MEB282	Design 1	8	4
Year 2, Se EEB101	Circuits & Measurements	8	3
MEB430	Materials 3	8	4
MEB352	Thermodynamics 1	8	4
PHB134	Engineering Physics 1B	8	3
Year 2, Se		_	_
EEB209 MEB111	Electrical Engineering 2M Dynamics	8 8	3 3
MILDIII	Dynamics	o	J

⁴³ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

⁴⁴ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

MEB334 MEB455	Materials 2 Thermodynamics 2	8 8	4 4
Year 3, Ser MAB487 MEB314 MEB363 MEB381	mester 1 Engineering Mathematics 2A Mechanics 1 Fluids 1 Design 2	8 8 8 8	3 4 4 3
Year 3, See MAB488 MEB466 MEB473 MEB483	mester 2 Engineering Mathematics 2B Fluids 2 Manufacturing Engineering 1 Design 3	8 8 8 8	3 4 4 3
Year 4, Ser MAB893 MEB572 MEB613 MEB662	mester 1 Engineering Mathematics 3 Manufacturing Engineering 2 Mechanics 2 Fluid Power	8 8 8 8	3 4 4 4
Year 4, Ser MEB641 MEB512 MEB513 MEB672	mester 2 Automation 1 Noise & Vibrations Stress Analysis Total Quality Management	8 8 8 8	4 4 4 3
Year 5, Ser FNB116 MEB554 MEB711	mester 1 Financial Management for Engineers Heat Transfer Automation 2 Elective Unit (select from List A)	8 8 8 8	2 4 4 3
Year 5, Ser HRB111 MEB661 MEB775	mester 2 Industrial Management Tribology Technology Management Elective Unit (select from List B)	6 8 8 8	2 4 3 3/4
Year 6, Se MEB801/1 MEB912		16 8 8	6 3 3
Year 6, Se MEB801/2		24 8	8 3
ELECTIVE List A MEB456 MEB503 MEB532 MEB776	LISTS Air Conditioning Special Topic 1 Advanced Materials Design for Manufacturing 2	8 8 8 8	3 3 3 3
List B MEB602 MEB682 MEB873 MEB952	Special Topic 2 Advanced Mechanical Design Computer Integrated Manufacturing Process Plant Design	8 8 8 8	3 3 4 3
List C MEB702 MEB777 MEB951 MEB984	Special Topic 3 Operations Management Energy & Environment Design of Power Transmission Systems	8 8 8	3 3 3 3

T			
List D BNB003	Professional Practice in Asia/Pacific	8	3
MEB803	Special Topic 4	8	3
MEB811 MEB961	Industrial Noise & Vibration Fluid Systems Design	8 8	3 3
	Course Structure for Articulation from Bachelor of	Technology	(ME35)
Year 1, Ser MAB487	mester 1 Engineering Mathematics 2A	8	3
MEB430	Materials 3	8	4
MEB775	Technology Management	8	3
Year 1, Ser		_	_
MAB488 MEB455	Engineering Mathematics 2B Thermodynamics 2	8 8	3 4
MEB641	Automation I	8	4
Year 2, Se	mester 1		
MEB554	Heat Transfer	8	4
MEB613 MEB711	Mechanics 2 Automation 2	8 8	4 4
MEDITI	Elective Unit (select from List C)	8	3
Year 2, Se	mester 2		
MEB466	Fluids 2	8	4
MEB483 MEB513	Design 3 Stress Analysis	8 8	3 4
MILDUIU	Elective Unit (select from List D)	8	3
Year 3, Sea	mester 1		
MEB662	Fluid Power	. 8	4
MEB802/1 MEB912	Project Finite Element Analysis	16 8	6 3
Year 3, Ser	•	· ·	J
MEB512	Noise & Vibrations	8	4
MEB779	Engineering Project Appraisal	8	3
MEB802/2	Project	16	6
ELECTIVE	LISTS		
List C			_
MEB702 MEB777	Special Topic 3 Operations Management	8 8	3 3
MEB951	Energy & the Environment	8	3
MEB984	Design of Power Transmission Systems	8	3
List D	D 6 1 1D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	2
BNB003 MEB803	Professional Practice in Asia/Pacific Special Topic 4	8 8	3 3
MEB811	Industrial Noise & Vibrations	8	3 3
MEB961	Fluid Systems Design	8	3

■ Bachelor of Engineering (Mechanical) (ME47) (Mid-year Entry)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus

Course Duration: 3.5 years full-time plus Summer School

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jack Laracy

Professional Recognition

This degree is recognised for the purpose of membership of the Institution of Engineers, Australia.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Faculty Office), a report in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Experience Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office.

Students should not formally enrol in industrial experience.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Year 1, Sea	mester 1		
BNB004 CEB184 MAB103 MAB187 MEB111 PHB134 MEB134 MEB181	Technology & Society Engineering Mechanics 1 Introductory Engineering Mathematics ⁴⁵ Engineering Mathematics 1A Dynamics Engineering Physics 1B Materials 1 Engineering Communication	8 8 (8) 8 8 8	3 3 (3) 4 3 3 4
Year 1. Su	mmer School		
CHB002 MAB188 MEB213 MEB282	Introduction to Engineering Chemistry ⁴⁶ Engineering Mathematics 1B Mechanics of Solids Design 1	(2) 8 8 8	(1) 4 4 4
Year 2, Se	mester 1		
EEB101 MAB487 MEB314 MEB352 MEB363 MEB381 MEB430	Circuits & Measurements Engineering Mathematics 2A Mechanics 1 Thermodynamics 1 Fluids 1 Design 2 Materials 3	8 8 8 8 8	3 3 4 4 4 3 4
Year 2, Se			
EEB209 MAB488 MEB334 MEB455 MEB466 MEB473 MEB483	Electrical Engineering 2M Engineering Mathematics 2B Materials 2 Thermodynamics 2 Fluids 2 Manufacturing Engineering 1 Design 3	8 8 8 8 8	3 4 4 4 4 3

⁴⁵ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

⁴⁶ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

Year 3, Set MAB893 MEB554 MEB572 MEB613 MEB662	nester 1 Engineering Mathematics 3 Heat Transfer Manufacturing Engineering 2 Mechanics 2 Fluid Power Elective Unit (select from List A)	8 8 8 8 8	3 4 4 4 4 3
Year 3, Set MEB512 MEB513 MEB641 MEB661 MEB672	Noise & Vibrations Stress Analysis Automation 1 Tribology Total Quality Management Elective Unit (select from List B)	8 8 8 8 8	4 4 4 3 3/4
Year 4, Ser FNB116 MEB711 MEB801/1 MEB912	Financial Management for Engineers Automation 2	8 8 16 8 8	2 4 6 3 3
Year 4, Set HRB111 MEB775 MEB801/2	Industrial Management Technology Management	6 8 24 8	2 3 8 3
ELECTIVE List A MEB456 MEB503 MEB532 MEB776	LISTS Air Conditioning Special Topic 1 Advanced Materials Design for Manufacturing 2	8 8 8	3 3 3 3
List B MEB602 MEB682 MEB873 MEB952	Special Topic 2 Advanced Mechanical Design Computer Integrated Manufacturing Process Plant Design	8 8 8 8	3 3 4 3
List C MEB702 MEB777 MEB951 MEB984	Special Topic 3 Operations Management Energy & Environment Design of Power Transmission Systems	8 8 8 8	3 3 3 3
List D BNB003 MEB803 MEB811 MEB961	Professional Practice in Asia/Pacific Special Topic 4 Industrial Noise & Vibration Fluid Systems Design	8 8 8	3 3 3 3

■ Bachelor of Engineering (Medical) (ME46)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus
Course Duration: 4 years full-time

Total Credit Points: 396

Course Coordinator: Professor Mark Pearcy

Professional Recognition

Preliminary accreditation for the course has been received from the Institution of Engineers, Australia. Full accreditation will be sought when the course has produced its first graduates. If accreditation is granted, graduates will be professionally recognised to practise as biomedical engineers.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator (through the Faculty Office) a report in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Experience Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office.

Students should not formally enrol in industrial experience.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
CEB184 CHB002 CSB192 EEB101 LSB131 MAB103 MAB187 MEB191	Engineering Mechanics 1 Introduction to Engineering Chemistry ⁴⁷ Introduction to Computing Circuits & Measurements Anatomy Introductory Engineering Mathematics ⁴⁸ Engineering Mathematics 1A Engineering in the Medical Environment	8 (2) 8 8 12 (8) 8	3 (1) 3 3 6 (3) 4 3
Year 1, Se		_	-
CHB003 EEB209 LSB231 MAB188 MEB111 MEB213 PHB134	Engineering Chemistry B Electrical Engineering 2M Physiology Engineering Mathematics 1B Dynamics Mechanics of Solids Engineering Physics 1B	4 8 12 8 8 8	3 6 4 3 4 3
Year 2, Se	emester 1		
HMB274 MAB487 MEB181 MEB314 MEB352 MEB363 MEB134	Functional Anatomy Engineering Mathematics 2A Engineering Communication Mechanics 1 Thermodynamics 1 Fluids 1 Materials 1	12 8 8 8 8 8 8	4 3 4 4 4 4 3
Year 2, Se			
CSB491 HMB362 MAB488	Unix & C Biomechanics 2 Engineering Mathematics 2B	4 12 8	2 4 3

⁴⁷ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

⁴⁸ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

MEB333 MEB473 MEB484	Biomaterials Manufacturing Engineering 1 Bioengineering Design 1	8 8 8	3 4 3
Year 3, Set COB002 MAB893 MEB465 PHB504	mester 1 Professional Communication Engineering Mathematics 3 Biofluids Instrumentation Elective Unit (select from List A)	6 8 8 8	3 3 3 3
Year 3, Se EEB375 MEB513 MEB580 MEB641 MEB661	mester 2 Electronics 1 Stress Analysis Bioengineering Design 2 Automation 1 Tribology Elective Unit (select from List B)	8 8 8 8 8	4 4 3 4 4 3
Year 4, Se FNB116 MEB490/1 MEB681 MEB703 PUB210	Financial Management for Engineers	8 8 8 8	2 3 3 3 4 3
Year 4, Se HRB111 MEB490/2 MEB672 MEB891 PUB211	Industrial Management	8 8 8 8 8	2 3 3 3 4 3/4
ELECTIVE	LISTS		
List A HMB614 HMB615 MEB430	Biophysical Bases of Movement Rehabilitation Exercise Physiology Materials 3	8 8 8	3 3 4
List B HMB616 HMB617 MEB682	Psychology of Rehabilitation Workplace Health Advanced Mechanical Design	8 8 8	3 3 3
List C HMB610 HMB611 MEB572 MEB780	Clinical Measurement Human Performance Manufacturing Engineering 2 Rehabilitation Equipment Design & Evaluation	8 8 8 8	3 3 4 3
List D MEB802 MEB741 MEB892	Special Topic 4 Maintenance Management & Technology Robotics in Health Care	8 8 8	3 3 3

■ Bachelor of Surveying (PS47)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus **Course Duration:** 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirements

Students must obtain at least 90 days' industrial experience in a surveying/mapping environment approved by the Course Coordinator.

Students must, not later than the fourth week of the semester immediately following each period of industrial employment/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office or Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board. Students should not formally enrol in industrial experience.

Students may be required to attend field camps off-campus and/or practical sessions in the Moreton region.

Specialisations

There are two specialisations built into the course – Surveying and Mapping. Most units are common to both specialisations. However, in specific semesters, specialised units are to be undertaken in either Surveying or Mapping and these are highlighted in the course structure.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Se	mester 1		
CSB 192	Introduction to Computing	8	3
MAB103	Introductory Engineering Mathematics ⁴⁹	(8)	(3)
MAB187	Engineering Mathematics 1A	8	4
PHB172	Physics for Surveyors	8	4 3 3 3 3
PSB315	Land Administration 1	6 8 8	3
PSB325	Land Surveying 1	8	3
PSB348	Seminar	8	3
Year 1, Se	mester 2		
ESB229	Geology in the Built Environment	8	3
MAB188	Engineering Mathematics 1B	8	4
PSB054	Environmental Science	4	4 2 3 3 3 3
PSB306	Cartography 1	8 8	3
PSB316	Land Administration 2	8	3
PSB323	Land Studies 1	6	3
PSB326	Land Surveying 2	8	3
Year 2, Se	mester 1		
MAB494	Survey Mathematics 1	6	3 3
MAB893	Engineering Mathematics 3	8	3

⁴⁹ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

MEB221 PSB307 PSB319 PSB327 PSB342 PSB902	Engineering Science 1 Cartography 2 Land Administration 5 ⁵⁰ Land Surveying 3 ⁵¹ Spatial Information Science 1 Urban Planning 1 ⁵⁰	6 10 (6) 10 8 (4)	3 (3) 3 3 (2)
Year 2, Se CEB364 MAB496 PSB303 PSB308 PSB317 PSB328 PSB334	Engineering Science 2 Survey Mathematics 2 Analysis of Spatial Measurement 1 Cartography 3 Land Administration 3 Land Surveying 4 Photogrammetry 1	6 6 8 8 8	3 3 3 3 3 3
Year 3, Se MAB795 PSB304 PSB309 PSB329 PSB333 PSB335 PSB346	Survey Mathematics 3 Analysis of Spatial Measurement 2 Cartography 4 Land Surveying 5 Map Projections Photogrammetry 2 Spheroidal Computations	6 6 8 8 6 8	3 3 3 3 3 3 3
Year 3, Se CEB464 PSB310 PSB318 PSB320 PSB324 PSB330 PSB336 PSB343	Emester 2 Engineering Science 3 Geodesy 1 Land Administration 4 Land Development Practice 1 Land Studies 2 Land Surveying 6 ⁵¹ Photogrammetry 3 Spatial Information Science 2 ⁵⁰	6 6 6 8 6 8 8 8	3 3 3 3 3 3 3
Year 4, Se CEB564 PSB339/1 PSB321 PSB331 PSB340 PBS344	Emester 1 Engineering Science 4 Project Land Development Practice 2 Land Surveying 7 Remote Sensing 1 Spatial Information Science 3 Elective Unit	6 8 8 8 6 8	3 3 3 3 3 3
Year 4, Se PSB322 PSB332 PSB338 PSB339/2 PSB345	Land Development Practice 3 Land Surveying 8 51 Professional Practice Project Spatial Information Science 4 50 Elective Units	16 8 6 8 8	6 3 3 3 3
Year 4, See CNB367 CNB465 CNB565 CNB567 CNB665 PSB018 PSB319		9 8 8 4 9 4 6	3 3 3 2 3 2 3

⁵⁰ This unit is to be undertaken by students in the Mapping strand only.

⁵¹ This unit is to be undertaken by students in the Surveying strand only.

PSB021 PSB337 PSB902	Conservation Theory Photogrammetry 4 Urban Planning 1	2 6 4	1 3 2
Year 4, Se	emester 2		
CNB362	Property Agency	8	3
CNB368	Real Estate Accounting 2	8	3
CNB568	Real Estate Practice	5	2.5
CNB666	Property Management 2	8	3
PSB020	Land Use Policies	4	2
PSB032	Issues & Ethics	2	1
PSB059	Population & Urban Studies	6	3
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB311	Geodesy 2	6	3
PSB341	Remote Sensing 2	8	3
PSB347	Topics in Engineering Surveying	6	3

■ Bachelor of Surveying (PS48) (Mid-year Entry)

See course requirements and notes relating to undergraduate courses.

Location: Gardens Point campus Course Duration: 3.5 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirements

Students must obtain at least 90 days industrial employment/practice in a surveying/mapping environment approved by the Course Coordinator.

Students must, not later than the fourth week of the semester immediately following each period of industrial employment/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office or Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board. Students should not formally enrol in industrial experience.

Students may be required to attend field camps off-campus and/or practical sessions in the Moreton region.

Specialisations

There are two specialisations built into the course – Surveying and Mapping. Most units are common to both specialisations. However, in specific semesters, specialised units are to be undertaken in either Surveying or Mapping and these are highlighted in the course structure.

Course St	tructure	Credit Points	Contact Hrs/Wk
Year 1, Se	omester 2		,
ESB229 MAB103	Geology in the Built Environment Introductory Engineering Mathematics 52	8 8	3 3
MAB187 PSB054 PSB306 PSB316 PSB323	OR Engineering Mathematics 1A Environmental Science Cartography 1 Land Administration 2 Land Studies 1	(8) 4 8 8 6	4 2 3 3 3
Summer 8 MAB188 PSB325 PSB326 PSB307	School Engineering Mathematics 1B Land Surveying 1 Land Surveying 2 Cartography 2	8 8 8 10	4 3 3 3
Year 2, Se	emester 1		
CSB192 MAB494 MAB893 MEB221 PHB172 PSB315 PSB327 PSB348	Introduction to Computing Survey Mathematics 1 Engineering Mathematics 3 Engineering Science 1 Physics for Surveyors Land Administration 1 Land Surveying 3 Seminar	8 6 8 6 8 6 10 8	3 3 3 3 3 3 3
Year 2, Se	emester 2		
CEB364 MAB496 PSB303 PSB308 PSB317 PSB328 PSB334	Engineering Science 2 Survey Mathematics 2 Analysis of Spatial Measurement 1 Cartography 3 Land Administration 3 Land Surveying 4 Photogrammetry 1	6 6 8 8 8	3 3 3 3 3 3
Year 3, Se	5 •		
MA B795 PSB309 PSB329 PSB333 PSB335 PSB342 PSB346	Survey Mathematics 3 Analysis of Spatial Measurement 2 Cartography 4 Land Surveying 5 Map Projections Photogrammetry 2 Spatial Information Science 1 Spheroidal Computations	6 6 8 8 6 8	3 3 3 3 3 3 3 3
Year 3, Se			
CEB464 PSB310 PSB318 PSB320 PSB324 PSB330 PSB336 PSB343	Engineering Science 3 Geodesy 1 Land Administration 4 Land Development Practice 1 Land Studies 2 Land Surveying 6 ⁵³ Photogrammetry 3 Spatial Information Science 2 ⁵⁴	6 6 8 6 8 8	3 3 3 3 3 3 3
Year 4, Se	-		
CEB564 PSB321	Engineering Science 4 Land Development Practice 2	6 8	3 3

MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

⁵³ This unit is to be undertaken by students in the Surveying strand only.

⁵⁴ This unit is to be undertaken by students in the Mapping strand only.

PSB331 PSB339/1 PSB340 PBS344	Land Surveying 7 55 Project Remote Sensing 1 Spatial Information Science 3 Elective Unit	8 8 6 8 4	3 3 3 3
Year 4, Se PSB322 PSB332 PSB338 PSB339/2 PSB345	Land Development Practice 3 Land Surveying 8 55 Professional Practice Project Spatial Information Science 4 56 Elective Units	16 8 6 8 8	6 3 3 3 3
ELECTIVE	UNITS		
Year 4, Se CNB367 CNB465 CNB565 CNB567 CNB665 PSB018 PSB021 PSB319 PSB337 PSB902	Real Estate Accounting 1 Property Investment Analysis 1 Time Management Real Estate Market Analysis Property Management 1 Land Use Generation Conservation Theory Land Administration 5 Photogrammetry 4 Urban Planning 1	9 8 8 4 9 4 2 6 6	3 3 3 2 3 2 1 3 3 2
Year 4, Se CNB362 CNB368 CNB568 CNB666 PSB020 PSB032 PSB059 PSB061 PSB063 PSB311 PSB341 PSB347	Property Agency Real Estate Accounting 2 Real Estate Practice Property Management 2 Land Use Policies Issues & Ethics Population & Urban Studies Impacts & Assessment Housing & Community Services Geodesy 2 Remote Sensing 2 Topics in Engineering Surveying	8 8 5 8 4 2 6 5 5 6 8 6	3 2.5 3 2 1 3 2 2 2 3 3 3

■ Bachelor of Technology (Civil) (CE31)

Location: Gardens Point campus

Course Duration:

Normal entry: 3 years full-time

Articulation from Associate Diploma: 3 years part-time

Standard Credit Points/Full-Time Semester:

Normal entry: 48

Articulation from Associate Diploma: 24

Course Coordinator: Dr Frank Bullen

Entry requirements

NORMAL ENTRY

Applicants must have completed Year 12 (or its equivalent) and, in addition, have obtained a minimum grade of Sound Achievement over four semester units in each of Senior English and Mathematics B (Mathematics 1, units 1, 2 and 3).

⁵⁵ This unit is to be undertaken by students in the Surveying strand only.

⁵⁶ This unit is to be undertaken by students in the Mapping strand only.

ARTICULATION FROM ASSOCIATE DIPLOMA

Applicants require an Associate Diploma in Civil Engineering from a university, TAFE college, or equivalent. Holders of Associate Diplomas from places other than QUT must have undertaken certain prerequisite units but may also seek exemptions.

Professional Recognition

Preliminary accreditation has been granted by the Institution of Engineers, Australia (IEAust). Further recognition for the course will be sought in accordance with IEAust regulations once the initial intake of students passes the halfway stage of the course. Full recognition will be obtained from the IEAust when the course produces its first graduates. When full recognition has been gained, graduates will be eligible for affiliate membership of the IEAust, providing them with official recognition as engineering technologists.

Full-Time Course Structure for Normal Entry			Credit Points	Contact Hrs/Wk
	Year 1, Se BNB004		o	2
	CEB106 CEB108 CEB184 CHB002 MAB103 MEB181	Technology & Society Experimental Design & Analysis Applied Physics Engineering Mechanics 1 Introduction to Engineering Chemistry Introductory Engineering Mathematics 57 Engineering Communication	8 8 8 2 8	3 4 3 1 3 4
	Year 1, Se		_	
	CEB170 CEB185 ESB229 MAB187 PHB134 PSB907	Engineering Science Engineering Mechanics 2 Geology in the Built Environment Engineering Mathematics 1A Engineering Physics 1A Surveying	8 8 8 8 8	3 3 2 4 3 3
	Year 2, Se			
	CEB240 CEB253 CEB293 CEB260 MAB185 MAB188	Soil Mechanics 1 Structural Engineering 1 Civil Engineering Materials Fluid Mechanics Introduction to Statistics Engineering Mathematics 1B	8 8 8 8 8	3 3 4 3.5 4
	Year 2, Se			
	CEB203 CEB241 CEB270 CEB204 CEB261 CEB211	CAD for Civil Engineers Soil Mechanics 2 Environmental Science Computer Applications Hydraulic Engineering Highway Engineering	8 8 8 8 8	3 3 3 3 3.5 4
	Year 3, Se			
	CEB221 CEB307 CEB224 CEB370 CEB225	Engineering Investigation, Analysis & Reporting Construction Practice Advanced Civil Engineering Software Public Health Engineering Civil Project A Elective Unit	8 8 8 8 8	4 3.5 3 3.5 4 3
	Year 3, Se		0	2.5
	CEB202 CEB226	Concrete Structures 1 Civil Projects B	8 8	3.5 4

⁵⁷ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

CEB227 CEB305 CEB372	Civil Investigation Project Construction Planning & Economics Environmental Technology Elective Unit	8 8 8	4 3 3 3
Part-Tim	e Course Structure – Articulation from Associate	Diploma	
Year 1, Se CEB221 CEB294 CEB309 CHB002 MAB103	Emester 1 Engineering Investigation, Analysis & Reporting Engineering Science Construction Practice 58 Introduction to Engineering Chemistry 59 Introductory Engineering Mathematics 60	8 8 8 (2) (8)	4 4 3.5 (1) (3)
Year 1, Se CEB261 CEB270 MAB187	emester 2 Hydraulic Engineering 1 Environmental Science Engineering Mathematics 1A	8 8 8	3.5 3 4
Year 2, Se CEB225 MAB185 MAB188	-	8 8 8	4 3 3
Year 2, Se CEB202 CEB241 CEB372	Concrete Structures 158	8 8 8	3.5 3 3
Year 3, Se CEB204 CEB226 CEB370	emester 1 Computer Applications Civil Projects B ⁵⁸ Public Health Engineering	8 8 8	3 4 3.5
Year 3, Se CEB227 CEB305	Pinester 2 Civil Investigation Project ⁵⁸ Construction Planning & Economics ⁵⁸ Elective Unit	8 8 8	4 3
ELECTIVI CEB313 CEB371 CEB543	E UNITS Traffic Engineering Water & Wastewater Systems Environmental Geotechnology OR Any other approved unit from the BE course	8 8 8	3 3 3

Electives

Students' elective programs are subject to approval by the Course Coordinator.

Students may choose approved elective units from civil engineering. Please refer to the Elective Units list for Bachelor of Engineering (Civil) (CE42).

■ Bachelor of Technology (Mechanical) (ME35)

Location: Gardens Point campus

Course Duration:

Normal entry: 3 years part-time

Articulation from Associate Diploma: 3 years part-time

⁵⁸ Safety boots must be worn for practical exercises and field trips.

⁵⁹ MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

⁶⁰ This unit must be taken by students not obtaining at least a SA in Grade 12 Chemistry and Mathematics C.

Standard Credit Points/Full-Time Semester:

Normal entry: 48

Articulation from Associate Diploma: 24/32

Course Coordinator: Dr Andy Tan

Entry Requirements

NORMAL ENTRY

Applicants must have completed Year 12 or its equivalent and, in addition, have obtained a Sound Achievement or better over four semester units in each of Senior English and Mathematics B.

ARTICULATION FROM ASSOCIATE DIPLOMA

Applicants must hold an Associate Diploma in Mechanical Engineering or a Bachelor of Science in an appropriate discipline, e.g. Materials Science, Physics, or equivalent.

Professional Recognition

The Institution of Engineers, Australia (IEAust) has given the course provisional accreditation. Full recognition will be sought from the IEAust when the course produces its first graduates. When full recognition has been gained, graduates will be eligible for affiliate membership, providing them with official recognition as engineering technologists.

Full-Time	Course Structure for Normal Entry	Credit Points	Contact Hrs/Wk
Year 1, Se	emester 1		
BNB004	Technology & Society	8	3
CEB184	Engineering Mechanics 1	8	3 3 1 3 3
CHB002	Introduction to Engineering Chemistry ⁶¹	(2)	1
EEB101	Circuits & Measurements	8	3
MAB103	Introductory Engineering Mathematics	8	3
PHB001	Introductory Physics	6	3
MEB181	Engineering Communication OR	8	4
MEB134	Materials 1	8	3
Year 1, Se	emester 2		
MAB187	Engineering Mathematics 1A	8	4
MEB111	Dynamics	8 8 8	3 3 4
MEB175	Manufacturing Practice 1	8	3
MEB213	Mechanics of Solids		
MEB181	Engineering Communication OR	8	4
MEB134	Materials 1	8	3 3
PHB134	Engineering Physics 1B	8	3
Year 2, Se	emester 1		
MAB188	Engineering Mathematics 1B	8	4
MEB275		8	3
MEB314	Mechanics 1	8	4
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8	4
MEB612	Mechanical Measurement	8	3
Year 2, Semester 2			
EEB209		8	3
MAB185	Introduction to Statistics	8	3 3
MEB282	Design 1	8	4
MEB283	Computer Aided Design & Drafting	8	4

⁶¹ CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a SA in Year 12 Chemistry. All other students must apply for an exemption from this unit.

MEB334 MEB473	Materials 2 Manufacturing Engineering 1	8 8	4 4
Year 3, Se HRB148 MEB355 MEB381 MEB501/1 MEB572	Managing People at Work Thermofluids Design 2 Project Manufacturing Engineering 2 Elective Unit (select from List A)	8 8 8 8	2 3 3 4 3
Year 3, Se HRB149 MEB501/2 MEB661 MEB672 MEB741	mester 2 Human Resources & Industrial Relations Project Tribology Total Quality Management Maintenance Management & Technology Elective Unit (select from List B)	8 8 8 8	2 3 4 3 3 3/4
ELECTIVE	LISTS		
List A MEB456 MEB503 MEB532 MEB776	Air Conditioning Special Topic I Advanced Materials Design for Manufacturing 2	8 8 8	3 3 3 3
List B MEB602 MEB682 MEB873 MEB952	Special Topic 2 Advanced Mechanical Design Computer Integrated Manufacturing Process Plant Design	8 8 8	3 3 4 3
Part-Time	e Course Structure – Articulation from Associate I	Diploma	
Year 1, Se MAB103 MAB187 MEB363 MEB612	mester 1 Introductory Mathematics ⁶² Engineering Mathematics 1A Fluids 1 Mechanical Measurement	(8) 8 8 8	(3) 4 4 3
Year 1, Se MAB188 MEB111 MEB334	mester 2 Engineering Mathematics 1B Dynamics Materials 2	8 8 8	4 3 4
Year 2, Se MEB314 MEB352 MEB381	mester 1 Mechanics 1 Thermodynamics 1 Design 2 Elective Unit (select from List A)	8 8 8	4 4 3 3
Year 2, Se MAB185 MEB672 MEB741		8 8 8 8	3 3 3 3
Year 3, Se HRB148	mester 1 Managing People at Work	8	2

⁶² MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Maths C.

Year 3, Semester 2 HRB149 Human Resources & Industrial Relations 8				
MEB501/2	Project	8	2	
MEB661	Tribology	8	4	
Elective L	ist			
List A				
MEB456	Air Conditioning	8	3	
MEB503	Special Topic 1	8	3	
MEB532	Advanced Materials	8	3	
MEB776	Design for Manufacturing 2	8	3	
List B				
MEB602	Special Topic 2	8	3	
MEB682	Advanced Mechanical Design	8	3	
MEB873	Computer Integrated Manufacturing	8	4	
MEB952	Process Plant Design	8	3	

■ Associate Diploma in Civil Engineering (CE21)

See course requirements and notes relating to undergraduate courses.

Course Discontinued: No further intakes. Years 4 is offered to continuing students on a part-time basis only.

Location: Gardens Point campus

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Course Requirements/Notes

Generally a full-time student will gain 24 credit points by successfully completing eight practical experience units designated by the suffix 'A' after the unit name, and a part-time student will gain 24 credit points for successfully completing 120 weeks of approved industrial employment, that is, 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma award. However, a combination of practical experience units and industrial employment totalling 24 credit points will be accepted. Industrial employment units 4 to 8 must involve the student in civil engineering work. Forms for obtaining credit for industrial employment are available from the Faculty office.

Course Structure		Credit Points	Contact Hrs/Wk
GENERAL	MAJOR (GEN)		
Year 4, Se	emester 1		
CET704	Civil Construction Practice	7	3
	List B1 Elective Unit	7	
	List B2 Elective Unit	7	
Year 4, Se	emester 2		
	List B1 Elective Unit	7	
	Two List B2 Elective Units	14	

WATER AND WASTEWATER PROCESS OPERATION MAJOR					
Year 4, Se CET606 CET777 CHA744	Construction Management Process Operation & Control 1 Process Measurement & Monitoring 2	7 7 7	3 3 3		
Year 4, Se CET876 CET877 CHA844	Plant Operation & Maintenance Process Operation & Control 2 Trade Waste Control	7 7 7	3 3 3		
Industrial BNT100 BNT200 BNT300 BNT400 BNT500 BNT600 BNT700 BNT700	l Employment Units (Part-Time only) Industrial Employment 1 Industrial Employment 2 Industrial Employment 3 Industrial Employment 4 Industrial Employment 5 Industrial Employment 6 Industrial Employment 7 Industrial Employment 8	3 3 3 3 3 3 3	15 weeks 15 weeks 15 weeks 15 weeks 15 weeks 15 weeks 15 weeks		
List B1 E FIRST SEN CET606 CET655 CET887 EST219	lective Units MESTER Construction Management (Evening) Concrete & Steel Design (Day) Computer Aided Drafting (Evening) Engineering Geology	7 7 7 7	3 3 3 3		
SECOND S CET655 CET787 CET887 HRX111	SEMESTER Concrete & Steel Design (Evening) Structural Engineering Drawing (Day) Computer Aided Drafting (Day & Evening) Safety & Industrial Relations (Evening)	7 7 7 7	3 3 3 2		
	List B2 Elective Units				
FIRST SEN CET703 CET707 CET735 CET797 CHA145 EST219 MET140	MESTER Civil Engineering Practice 1 Municipal Engineering (Evening) Advanced Laboratory Testing 1 ⁶³ Project 1 ⁶³ Introductory Chemistry (Evening) Engineering Geology Engineering Materials 1	7 7 7 7 8 7 8	3 3 3 3 3 3		
SECOND 5 CET420 CET797 CET802 CET838 CET856 CET888	SEMESTER Civil Systems 2 Project 1 ⁶³ Civil Engineering Practice 2 Advanced Laboratory Testing 2 Advanced Construction Techniques Structural Drawing & Design (Day)	7 7 7 7 7	3 3 3 3 3 3		

Up to 21 credit points from other modes or strands of this course or from other QUT courses may be approved by the Course Coordinator as alternatives to the listed elective units. The number of elective units available depends on a sufficient number of students being enrolled.

Degree level units may be selected as electives with the approval of the Course Coordinator.

Students not following the normal course progression as listed must contact the Course Coordinator for re-enrolment advice.

⁶³ Safety boots must be worn for practical exercises and field trips.