Faculty of The Built Environment

Architecture
Industrial Design
Interior Design
Urban and Regional Planning
Landscape Architecture
Construction Management
Quantity Surveying

Queensland University of Technology
2 George Street
GPO Box 2434 Brisbane Q 4001 Telephone (07) 223 2111

ISSN 0156 - 1790 (Built Environment)

Built Environment

Dean of Faculty

Thomas Heath, MArch, MBdgSc, FRAIA, MSAICA, ADIA

The Faculty of the Built Environment consists of:

The Department of Architecture and Industrial Design
The Department of Building and Quantity Surveying
The Department of Planning and Landscape Architecture

The following courses are offered within the Faculty:

Faculty

Master of Applied Science - Built Environment

This course is a one and a half years full-time/three years part-time course which allows graduates to follow specialized study in the field of urban design by course work and final thesis. Entry is subject to eligibility conditions listed later in this handbook.

Bachelor of Applied Science - Built Environment

This course is a three year full-time, interdisciplinary course and prepares students to enter the professional graduate diplomas in Architecture, Industrial Design, Interior Design, Landscape Architecture, Urban and Regional Planning. The course also has a strand in Interior Design.

Associate Diploma Built Environment Technician

This course is a one year full-time/two year part-time course offered with entry at Grade 12 level to train technicians for the Architecture profession.

Department of Architecture and Industrial Design

Bachelor of Architecture

This course is a six year part-time course to prepare students from Grade 12 to be capable practising architects who, subject to practice requirements, are eligible for registration by the Board of Architects of Queensland. Students may undertake fourth and fifth years of the course as full-time students. The study program must be arranged with the Head of Department.

Graduate Diploma in Industrial Design

This course is a two year part-time or one year full-time course following on from the Industrial Design strand of the Bachelor of Applied Science - Built Environment course, but also available to graduates from other disciplines subject to the eligibility conditions listed later in this handbook.

Department of Planning and Landscape Architecture

Graduate Diploma in Landscape Architecture
Graduate Diploma in Urban and Regional Planning

These are three year part-time or two year full-time courses following on from the Landscape Architecture/Urban and Regional Planning strand of the Bachelor of Applied Science - Built Environment course, but also available to the graduates from other disciplines subject to fulfilment of eligibility conditions listed later in this handbook.

Department of Building and Quantity Surveying

Graduate Diploma in Building Project Management

This is a two year part-time interdisciplinary course available to graduates from related construction disciplines subject to the eligibility conditions listed in this handbook.

Bachelor of Applied Science - Building

This course is a six year part-time or two year full-time/two year part-time course which, with related experience, will prepare students from Grade 12 to be capable practising builders who are eligible for registration by the Australian Institute of Building.

Bachelor of Applied Science - Quantity Surveying

This is a six year part-time or two year full-time/three year part-time course which, with related experience, will prepare students from Grade 12 to be capable practising quantity surveyors who are eligible for registration by the Australian Institute of Quantity Surveying.

Contents

6

7

8

9

10

Preface

1

Message from the Registrar on the establishment of Queensland University of Technology

At the time of printing this handbook QIT is preparing for re-constitution as a new institution, the Queensland University of Technology.

The Premier of Queensland has announced the Government's intention to introduce legislation to the Queensland Parliament in the 1988 Spring session, probably in November 1988, to establish an institution to be named the Queensland University of Technology. Subject to the will of Parliament the new institution will come into being on 1 January, 1989.

Transition from QIT to QUT

By-Laws and Rules

The information published in this handbook has been prepared on the understanding that the Queensland University of Technology Act will provide that all By-Laws and Rules of the Queensland Institute of Technology will continue in force and apply to the new institution until new Statutes and Rules have been approved.

As soon as practical after the establishment of the QUT, the Council of the University will submit new Statutes for Executive Approval in substitution for the existing By-Laws and will approve new rules to be framed under the provision of those Statutes. Care will be taken to ensure that students' enrolment and course progression are not adversely affected in this transition.

Transfer of Courses and Students

Subject to the existing By-Laws and Rules (e.g. unsatisfactory academic performance rules), students of the QIT shall become students of the QUT with full transfer of their previous academic records. All courses offered by the QIT shall become courses of the QUT.

Debts and Obligations

Any debts or obligations owing to the QIT (e.g. fines or loans) shall be debts or obligations owing to the QUT. Equally, debts or obligations of the QIT (e.g. refund of laboratory deposits) shall be the responsibility of the QUT.

Publication of QUT Calendar

As early as possible in 1989 the University will publish its first Calendar (or institutional handbook). This publication will contain the Statutes and Rules of the Queensland University of Technology and other information on the new institution as approved by the University Council. Particularly in the first year of the university's operation all students should purchase a copy of the Calendar when it becomes available.

Conclusion

By the time this Faculty handbook is released for publication it is expected that the Act establishing the Queensland University of Technology will be law. I therefore take the opportunity to welcome all staff and students to the new institution.

B S Waters
Registrar

Rules Relating to Student Matters

2

RULES RELATING TO STUDENT MATTERS

Admission to Courses

The Council may –

1. prescribe the conditions for normal entry to each course offered.
2. limit the number of students who shall be permitted to enrol or continue in any course.
3. appoint an Admissions Committee and approve of rules providing for –
   ((a)) its membership including the appointment of a Chairman;
   ((b)) its method of operation;
   ((c)) the admission of students who do not comply with normal entry;
   ((d)) the selection of students to be admitted where quotas or restrictions have been imposed upon admissions and enrolments;
   ((e)) a quorum.

Academic Structure and Content of Courses

The Council may –

4. prescribe the academic structure and content of any courses and amend these at any time provided the reasonable rights of students already enrolled in the course are not prejudiced or are sufficiently safeguarded;
5. prescribe rules for student progression within a course;
6. delegate any or all of its powers under this section.

Assessment of Students

The Council may –

7. approve rules relating to the examination and assessment of students and the award of grades of passes;
8. delegate any or all of its powers under this section.

Exclusion of Students

The Council may –

9. prescribe rules relating to gross failure;
10. exclude any student who is classified as having achieved gross failure in subjects or courses;
11. delegate any or all of its powers under this section provided that any student shall have a right of appeal to Council against any decision on exclusion.

Appeals

Council shall establish an Appeals Committee to hear student appeals to the Council against exclusion and approve rules not inconsistent with By-law No. 5 or rules thereof in respect of the duties powers membership and management of the business of such Committee.

RULES FOR ADMISSION

1. Meaning of certain words. Unless the context otherwise indicates or requires –

"Admission Committee" means a committee appointed by Council to consider applications for admission to University courses.

'Dean of Faculty' means a member of the academic staff appointed by Council and so designated.

'Head of School' means a member of the academic staff appointed by Council and so designated as the senior academic member of staff in a particular School. Reference to 'Head of Department' in these Rules is deemed to include reference to 'Head of School'.

'Head of Counselling' means the officer in charge of the University's Counselling Centre.

'Academic Staff Association' means the Academic Staff Association of the University.

'Ordered Course' means a course in which a student is required, to gain credit in a number of subjects in a particular sequence to acquire an award.

'Head of Department' means a member of the academic staff appointed by Council and so designated as the senior academic member of staff in a particular Department. Reference to 'Head of Department' in these Rules is deemed to include reference to 'Head of School'.

'Sub-tertiary course' means a course of study leading to the award of a Certificate.

'Tertiary Course' means a course of study leading to the award of a Degree Diploma or an Associate Diploma.

'Assistant Registrar' means the Assistant Registrar of the University.

A 'Registered Student' is a student in an ordered course whose first enrolment in that course has been accepted and approved by the Registrar. A student shall remain a registered student until he:

(a) completes the course, or
(b) withdraws from the course, or
(c) is excluded from the course, or
(d) fails to enrol in the course.

2. The membership of the Admissions Committee shall be –

Registrar (who shall act as Chairman)
Deans of Faculties

Head of Counselling
One representative appointed by the Academic Staff Association.

A member of Committee may be permitted to appoint another person who is not a member to attend and vote on his behalf.

3. The Admissions Committee shall -

   (a) advise the Director and the Academic Assembly on all matters relating to the admission of students including -

      (i) the standards of entry to all courses after consideration of recommendation prepared by the Academic Boards;
      (ii) the assessment of prospective future enrolments following periodic reviews of statistical trends;
      (iii) the recommendation or policies for determining those who should be given priorities for admission or enrolment where quotas or restrictions on admissions or enrolments are in the opinion of the Council necessary.

   (b) determine eligibility for admission in those cases where the applicant does not possess normal entry standards.

4. A person desirous of entering a course shall make application to the Registrar for admission on a form provided for this purpose, and shall lodge such form fully and correctly completed not later than the closing date prescribed by the Council.

   With such application, the person shall produce to the Registrar for verification, sufficient documentary evidence of passes in prerequisite examinations.

   The documentary evidence produced for verification shall be -

   (a) the original documents or facsimile copies thereof;
   (b) such other evidence as the Admissions Committee may require.

5. A person who does not have the normal entry qualifications may make application for special consideration for entry on a form provided by the Registrar.

6. Concurrently with an application for special consideration for entry a person shall lodge with the Registrar an application for enrolment on the form provided for the purpose, and shall lodge such form fully and correctly completed not later than the closing date prescribed.

7. The Registrar shall notify all applicants for admission of the acceptance or rejection of their applications.

8. An application for enrolment may be amended by the Head of Department because of -

   (a) timetable incompatibility;
   (b) non-compliance with the rules applicable to the course of study;
   (c) selection by the applicant of subjects which in the opinion of the Head of Department are more than his capacity or

circumstances allow him to study adequately.

An applicant whose application for enrolment has been amended shall have a right of appeal to the Dean of Faculty. Such an appeal shall be lodged with the Registrar within fourteen (14) days from date of notification of such amended enrolment. The Registrar shall notify the applicant of the result of the appeal as soon as is reasonably possible.

9. Late enrolments may be accepted only if a vacancy exists in classes established on the basis of closing date enrolments, and with the approval of the Dean of Faculty.

10. A Dean of Faculty may cancel any class in any subject where the number of enrolments in that class is considered to be insufficient.

Class groups shall be determined on enrolments at a closing date prescribed by Council. In the event of the cancellation of any class the enrolment of a student shall be deemed to be cancelled in respect of such subject provided that such cancellation shall be without prejudice to the right of the student to again apply for admission for enrolment in such subject, subject to the conditions prescribed for entry to such subject at the time of his application.

RULES RELATING TO UNREGISTERED STUDENTS

1. Unregistered Students are defined as those students who undertake individual subjects from accredited University courses (award courses) and receive normal instruction, assessment and examination results in such subjects but who are not registered to undertake a complete award course.

2. There shall be two categories of Unregistered Students:

   (a) Miscellaneous Students who pay no tuition fees and who are enrolled under special approval arrangements, for example, to undertake an approved bridging program prior to entering a specific award course, to satisfy provisional enrolment requirements, to complete a second or subsequent strand of a University course or to complete a course offered by another institution;

   (b) Visiting Students who pay a tuition fee as determined by the University's Continuing Education Committee, who undertake as continuing education students individual subjects from award courses for means of professional or personal development, but who do not come within the definition of Miscellaneous Students.

3. Enrolment as an Unregistered Student shall be subject to the applicant's completion of application procedures as determined by the Registrar and to the approval of the application by the Head of Department or Head of School responsible for teaching the subject.

4. Unregistered Students shall be required to pay the appropriate Union Fee and shall be subject to the rules of the University, with the exception of Rules 41 to 46 of the General Examination Rules (Unsatisfactory Academic Performance).
5. Miscellaneous Students shall not be permitted to accumulate credits for more than 20% of the total course hours within a course. Visiting Students shall not receive credit towards a University course for any subject undertaken as a Visiting Student.
6. Where quotas or other restrictions apply to a subject, a student registered for a University course will have precedence over a Miscellaneous Student and a Miscellaneous Student shall have precedence over a Visiting Student.
7. Where a registered student is also undertaking a subject or subjects offered in a course other than that for which the student is registered, the application of the Rules on Unsatisfactory Academic Performance in the course for which the student is registered will not be affected in any way by the results obtained in the subject or subjects undertaken in the unregistered mode.
8. When a registered student is excluded from a course due to unsatisfactory academic performance, the student shall not be eligible subsequently for enrolment as an unregistered student in any subject of that course except at the discretion of the Dean of the Faculty responsible for the conduct of the course.

RULES RELATING TO EXEMPTIONS

1. Subject to the provisions of Rules 2 and 3 hereof, a student who has completed a program considered by the Head of School or Head of Department responsible for the course as being an adequate and relevant substitute for a subject or subjects prescribed in the relevant course rules may be granted exemption from the whole or part of that subject or those subjects.
2. Exemptions may be granted for any number of subjects provided that -
   (a) in the case of a course which exceeds two semesters full-time or four semesters part-time, exemptions may be granted up to a limit such that in order to qualify for the award the student must have completed satisfactorily within the University the equivalent of at least two semesters of full-time study or where the course is not offered for full-time study four semesters of part-time study in subjects nominated by the Head of School or Head of Department responsible for the course, irrespective of the course in which the student was registered while undertaking the nominated subjects;
   (b) in the case of a course which does not exceed two semesters

full-time or four semesters part-time, exemptions may be granted up to a limit such that in order to qualify for the award the student must complete satisfactorily within the University subjects nominated by the Head of School or Head of Department responsible for the course, the contact hours of which aggregate to 75 percent or more of the prescribed minimum contact hours of the course, irrespective of the course in which the student was registered while undertaking the nominated subjects;

(c) where a student gains an award in one University course, in order to qualify for a second or subsequent University award the provisions of 2(a) or 2(b) above must be satisfied subsequent to registering for the second or subsequent course.

3. Exemptions will not be granted in connection with or for the Graduate Diploma in Legal Practice course.

4. Except as specifically provided in individual Course Rules and save in exceptional circumstances as determined by the Registrar all applications for exemption must be made and determined at the time of a student's first Enrolment in the course to which the exemptions refer.

5. Whenever exemptions granted constitute 50% or more of the full course program, the Head of School or Head of Department responsible for the course shall provide the Registrar with full details of the study program which the student has to complete at the University to qualify for the award. The Registrar shall advise the student of such requirements in writing.

RULES RELATING TO STUDENTS WHO SEEK RE-REGISTRATION

1. Subject to the provisions of clauses 2 and 3 below, a student whose registration in a course has lapsed because of withdrawal from the course or failure to re-enrol in the course and who wishes to re-register in that course.

   (a) must apply for registration in the course by submitting a Re-enrolment Form;

   (b) shall be subject to the Course Rules in operation at the time of resumption; and

   (c) must re-enrol as directed.

2. The provisions of clause 1 of this Rule do not apply to students, who, at the time of resumption, have not satisfactorily completed all the subjects listed in the Course Rules for the first and second semesters, full-time, part-time, or external, as the case may be, of the course in which re-registration is sought. Such students are not eligible to re-enrol and must apply for admission to the course

in the manner prescribed for new students.

3. Upon withdrawal from a course, or upon failure to re-enrol in a course a student who has not satisfactorily completed all subjects listed in the Course Rules for the first and second semesters, full-time, part-time or external, as the case may be, of that course, may be granted leave of absence upon production to the Registrar of documentary evidence acceptable to the Registrar in the case of medical or other compassionate grounds and acceptable to the relevant Academic Board responsible for the course in any other case. Such leave of absence shall be for a specific period at the expiration of which the student may re-enrol without loss of credit for results awarded prior to the date of withdrawal. A student to whom leave of absence has been granted shall be deemed for the period of leave of absence to be no longer proceeding to an academic award and must, on termination of the leave of absence, re-enrol or apply for an extension of the leave of absence. If a student fails to re-enrol or obtain an extension his registration will lapse.
4. A student whose registration in a course has lapsed as a consequence of exclusion from the course and who wishes to re-register in the course must apply for readmission in accordance with Rule 46 of the General Examination Rules.

GENERAL EXAMINATION RULES

Part I. DEFINITIONS

'Academic Board' means a Board constituted by Council to exercise certain academic functions in relation to a particular Faculty.

'Committee of the Academic Board' means a group of members of the Academic Board constituted by the Academic Board to exercise those particular academic functions prescribed by the Academic Board.

'Award' means a Degree, Graduate Diploma, Diploma, Associate Diploma or Certificate conferred upon a student by the Council.

'Chief Examiner' means an officer appointed and so designated by a Head of Department in relation to an examination in a particular subject for a particular period.

'Examiner' means an officer appointed by the Head of Department to set and mark examination papers in a particular subject for a particular period.

'Supervisor' means an officer appointed by the Registrar or nominated by a Head of Department to supervise the conduct of a particular examination.

'Central Examination' means any examination administered by the office of the Registrar.

'Departmental Examination' means any examination administered by a Department.

'Supplementary Examination' means a further examination given to a student who has failed to pass a subject.

'Deferred Examination' means an examination given to a student in cases where the student has failed to sit for and complete an examination and the reasons for such failure have been accepted by the Dean of Faculty.

'Course' means a group of subjects specified by the rules which must be successfully completed in order to qualify for a specified award.

'Subject' means the basic educational unit for which results are awarded within the University.

'Result' means the formal indicator of a student's achievement in a subject.

'Assessment Provisions' means the systems of assessment approved for a subject and may include Central Examinations, Departmental Examinations, Assignments, Field Work, Practical Work, Reports, Seminar Participation or other work which a student is required to do and which will be assessed in determining a student's result in the subject.

'Dean of Faculty' means a member of the academic staff appointed by Council and so designated.

'Head of School' means a member of the academic staff appointed by Council and so designated. Reference to 'Head of Department' in these Rules is deemed to include reference to 'Head of School'.

'Head of Department' means a member of the academic staff appointed by Council and so designated as the senior academic member of

staff in a particular Department except that where there is no Department responsible for subjects the Dean of Faculty shall be regarded as the Head of Department. Reference to 'Head of Department' in these Rules is deemed to include reference to 'Head of School'.

'Registrar' means the Registrar of the University.

'Vice-Chancellor' means the Vice-Chancellor of the University.

Part II. DETERMINATION AND NOTIFICATION OF ASSESSMENT PROVISIONS

1. *Authority to Prescribe Assessment Provisions*

   (a) The Assessment Provisions for each subject shall be prescribed by the Department responsible for the subject and shall be approved by the Academic Board of the Faculty to which the Department is attached.

   (b) An Academic Board shall have the power to delegate its responsibility under this rule to a Committee of the Academic Board subject to any conditions the Academic Board may impose. The Academic Board shall resolve any disputes.

2. *Notification of Assessment Provisions in Subjects*

   Within a reasonable period of the commencement of a subject students shall be provided with written advice of the Assessment Provisions in the subject, together with information on the weight and timing of each item of assessment. If a passing grade is required in any or each item of assessment in order to obtain a passing grade in the subject this information must also be included in the advice to students.

Part III. ORGANISATION OF EXAMINATIONS

3. *Periods for Examinations*

   (a) The periods within the academic year to be set aside for Central Examinations, Supplementary Examinations and Deferred Examinations will be determined by Council and published in the University Calendar.

   (b) The timing of Departmental Examinations shall be as determined by the Department concerned after agreement with other Departments which might be affected by any determination and, where appropriate, by agreement with the Registrar.

   (c) Except in exceptional circumstances and with the specific approval of the Registrar no Central Examination or Departmental Examination, other than Deferred or Supplementary Examinations may be held during a period shown on the University Calendar as reserved for Examination preparation or for Recess periods.

4. *Accommodation*

   The Registrar shall have first call on Lecture Rooms, Seminar Rooms, Drawing Offices, and other examination accommodation during periods approved for Central Examinations.

5. *Appointment of Examiners*

   (a) The relevant Head of Department shall appoint examiners and, where appropriate, chief examiners each semester for each subject in that semester.

   (b) The names of all examiners shall be forwarded by the Head of Department to the Registrar by a date to be prescribed by the Registrar.

6. *Submission of Central Examination Papers*

   The Registrar may prescribe the date upon which all Central Examination papers required to be set by examiners are to be forwarded to the Examinations Section within the Registrar's Office and the form in which such papers will be received.

7. *Timetables*

   (a) The Registrar shall be responsible for the preparation of a timetable for all Central Examinations and for the publication of this timetable as required by these rules.

   (b) Each Head of Department shall be responsible for the preparation of a timetable for Departmental Examinations conducted by the Department and shall place such timetable on appropriate Departmental Noticeboards.

   (c) A timetable for Central Examinations shall be posted on the main University Noticeboards and to external students not less than three weeks prior to the commencement of the relevant semester examination period.

   (d) Should any timetable show a clash between subjects for which the student is enrolled, it is the responsibility of the student to notify either the Registrar or the Head of Department as the case may be by the date prescribed for such notification.

   (e) No amendment to a timetable for Central Examinations will be accepted following distribution of student examination forms referred to in Rule 8(a).

8. *Student Examination Form*

   (a) The Registrar shall forward to each student at least two weeks prior to the commencement of the Central Examination period an examination form showing all the subjects in which the student is enrolled in the current semester, a statement of whether the subject has a Central Examination scheduled and the date and time of the examination in those subjects which are to be centrally examined.

   (b) The student shall take this form to all examinations and shall produce the form on request as provided for in Rule 18.

Part IV. ELIGIBILITY TO UNDERTAKE ASSESSMENT PROVISIONS

9. *Eligibility to Undertake Assessment*

Subject to the provisions of Rule 10, a student who holds a current enrolment approval in a subject shall be eligible to undertake the assessment provisions for that subject.

10. *Eligibility to Sit for Examinations*

(a) A student may be declared ineligible by the Head of the Department responsible for the course to sit for an examination as a consequence of having failed to fulfil all the conditions as set out in the rules pertaining to the course for which the student has enrolled.

(b) The Registrar may prescribe the date by which Heads of Department must advise the Registrar of the names of students who are declared to be ineligible under this rule and upon receipt of advice from the relevant departments will so advise the students in writing of their ineligibility inviting them to show cause by a prescribed date why ineligibility should not be confirmed.

(c) Where students show cause why they should not be declared ineligible their cases shall be referred to the Dean of Faculty for review and determination.

(d) A student declared by the Dean of Faculty to be so ineligible shall have the right of appeal to the Director.

11. *Voluntary Withdrawal from Enrolment in Subjects*

(a) A student who cancels enrolment in a subject on or before the final date for cancellation of subjects without penalty shown in the University Calendar shall not receive any result for the subject.

(b) Subject to sub-rule 11(c), a student who cancels enrolment in a subject after the final date for cancellation of subjects without penalty shown in the University Calendar *and before the date shown in the Calendar for the end of the relevant semester,* shall be regarded as having presented for assessment and shall receive the result 'Fail - Late Cancellation'.

(c) If the Registrar, on the advice of the Faculty, is satisfied that medical, compassionate, or other exceptional circumstances necessitate a student cancelling a subject, such cancellation may be granted without penalty even though the date of cancellation was after the final date for cancellation without penalty specified in the University Calendar.

Part V. DEFERRED EXAMINATIONS AND SPECIAL CONSIDERATION

12. *Failure to Attend for Examination at the Prescribed Date and Time*

Subject to the provisions of Rule 13, a student who fails to attend an examination which is shown on the examination form referred to in Rule 8 will be deemed to have sat for and failed the examination.

13. *Deferred Examination*

(a) A student who for medical or compassionate reasons or other circumstances beyond the student's control, was, or will be, unable to sit for an examination may apply for a Deferred Examination. An Application for Deferred Examination must be lodged with the Registrar as soon as practicable, and in any case not later than the date prescribed in the University Calendar, and must be supported by suitable medical or other evidence in the form specified in Rule 15.

(b) Should the medical or other evidence submitted in support of an Application for Deferred Examination be acceptable to the relevant Dean of Faculty, the student shall be granted a Deferred Examination.

14. *Special Consideration of Factors Affecting Examination Performance*

(a) Candidates who consider that their performance in an examination has been adversely affected by illness, disability, bereavement or other exceptional circumstances may apply for special consideration. Such applications must be lodged with the Registrar as soon as practicable, and in any case by the closing dates specified in the current University Calendar. Such applications must be supported by medical or other evidence in the form specified in Rule 15.

(b) The Registrar shall forward applications for special consideration to the relevant Dean of Faculty for determination. The Dean of Faculty may refer the application to the relevant chief examiner who, in consultation with the appropriate examiner or examiners, shall take such account of the information contained therein as is considered appropriate in deciding the result to be recommended for the candidate in the subject in question.

(c) Notwithstanding Section (b) of this rule, Academic Boards may prescribe additional procedures to facilitate consideration of special consideration applications.

15. *Evidence in Support of Applications for Deferred Examinations and Special Consideration*

(a) Medical Evidence: A candidate who applies for a Deferred Examination or for special consideration on medical grounds must submit a medical certificate from a registered medical or dental practitioner stating:

(i) the date on which the student was examined;
(ii) the nature, severity and duration of the complaint;
(iii) the practitioner's opinion of the effect on the students ability to take, or to perform satisfactorily in, the examination.

A statement that the student was not fit for duty, or was suffering from 'a medical condition' will not be accepted.

(b) Evidence other than medical evidence: A candidate who applies for a Deferred Examination or for Special Consideration on other than medical grounds must submit with the application a Statutory Declaration stating the disability or exceptional circumstances, which precluded the candidate from taking the examination in the appointed place and/or at the appointed time or which the candidate considers affected performance in the examination. The candidate should also furnish any corroborative evidence in support of the application.

(c) A Deferred Examination may not be granted if in the opinion of the relevant Dean of Faculty more timely notice of difficulties would have permitted arrangements to have been made for the original examination to be taken close to the original time set down for the examination.

(d) A Deferred Examination will not normally be granted to candidates who misread the Examination timetable.

Part VI. CONDUCT OF EXAMINATIONS

16. *Responsibility for Conduct of Examinations*

(a) The Registrar shall be responsible for the conduct of all Central Examinations in accordance with the rules contained in this Part VI.

(b) The relevant Head of Department shall be responsible to the Registrar for the conduct of Departmental Examinations in accordance with the rules contained in this Part VI.

17. *Entry to Examination Rooms*

(a) All persons entering an examination room must provide proof of identity to the supervisor.

(b) A person other than the candidate, supervisor, chief examiner or chief examiner's nominee, Head of Department, Registrar or Registrar's nominee, may not except with the permission of the supervisor enter an examination room during an examination session.

(c) Except with the permission of a supervisor no person other than a supervisor, the Registrar or the Registrar's nominee may enter an examination room during the period of forty-five minutes immediately preceding an examination session set down for that room.

(d) A person whether a candidate or not, who is given permission to enter or leave an examination room shall comply with all conditions on which the permission is given.

18. *Identification*

A candidate shall bring to the examination room the student

examination form and student card provided to each student and shall produce or keep displayed such information in accordance with any direction given by notice displayed in the examination room, by direction on an examination book, by a supervisor or otherwise.

19. *Places*

A candidate for an examination shall upon entering an examination room proceed without delay to such place as the candidate is or has been directed to occupy for that examination by a supervisor or by notice, or other means, and shall not leave that place except with the permission or by the direction of a supervisor. A supervisor may at any time direct a candidate to leave any such place and to occupy another place specified by the supervisor, and a candidate shall without delay comply with any such direction.

20. *Time for Departure*

(a) A candidate may not leave an examination room before the end of the examination session without the permission of a supervisor.

(b) Except in exceptional circumstances permission to leave an examination room will not be granted before the expiration of half the working duration of the examination.

21. *Candidates Not to Remove Papers*

A candidate shall not remove from the examination room any worked script or other paper provided for use during the course of the examination (other than the question paper supplied where this is authorised by the supervisor on advice from the examiner) or other material the property of the University.

22. *Cheating*

(a) A candidate shall not cheat or attempt to cheat in any examination.

(b) A person whether a candidate or not shall not do anything intended to assist any other person sitting for an examination to cheat or otherwise defeat the purposes of the examination.

23. *Candidate not to Communicate with Others*

A candidate shall not during an examination session communicate by word or otherwise with any other person except a supervisor, examiner or examiner's nominee, or assist any other person to communicate with another person, or willingly receive a communication from any person other than a supervisor, examiner or examiner's nominee.

24. *Unauthorised Material not to be brought into the Examination Room*

A candidate shall not bring into an examination room anything whatsoever which conveys or is capable of conveying information concerning or otherwise has reference to any subject or is such that it may reasonably give rise to suspicion that it is capable of

conveying information concerning or of having reference to any subject or that it was intended by the candidate to do so. It is immaterial that the subject is not a subject to which the examination relates.

It shall be sufficient answer to any alleged breach of this rule if the candidate establishes that anything brought by the candidate into an examination room was -

(a) declared as permissible by the examiner and is so indicated on the examination paper, or

(b) brought in with the permission of the supervisor, or

(c) deposited by the candidate within the room forthwith after entering it at a place designated by the supervisor as a place where such thing may be deposited.

25. *Candidate to Comply with Directions*

(a) A candidate shall comply with all directions to candidates set forth on the examination book or such other examination material supplied or set out on any notice displayed in the examination room and shall without delay comply with any reasonable direction given by the supervisor.

(b) A candidate's behaviour shall not be such as to disturb or distract or adversely affect any other candidate.

(c) In the event of breach or default by a candidate under or in respect of 25(a) or 25(b) the supervisor may require the offending candidate to leave the examination room and failure by the candidate to do so shall be deemed to be a breach of discipline and the student may be dealt with under By-law 9(2).

(d) All such exclusions shall be reported immediately to the Registrar or in his absence the Deputy Registrar or officer designated by the Registrar to conduct the examination and the Registrar, Deputy Registrar or other officer after hearing the supervisor the candidate and any relevant evidence may either confirm or rescind the exclusion.

26. *Supervisors Powers of Inspection and Enquiry*

(a) A supervisor may require a candidate to show by such means as the supervisor may specify and as the supervisor considers appropriate to the circumstances that the candidate does not possess or in any way have available any such thing as is specified under Rule 24 or that the candidate is not committing or has not committed a breach of Rules 22 or 23 and the candidate shall comply without delay with such requirement.

(b) If a supervisor considers that unauthorised material has been brought into the examination room, the supervisor may confiscate such material together with worked scripts completed to that time. The supervisor shall submit any material so confiscated to the Registrar or the Registrar's nominee for investigation.

Part VII. PLAGIARISM

Plagiarism is the act of taking and using another's work as one's own. Where plagiarism occurs in items of assessment contributing to the result in a subject it shall be regarded as, and treated in the same manner as, cheating in an examination. For the purpose of these rules any of the following acts constitute plagiarism unless the work is acknowledged:

(a) copying the work of another student;

(b) directly copying any part of another's work;

(c) summarising the work of another;

(d) using or developing an idea or thesis derived from another person's work;

(e) using experimental results obtained by another.

27. *Plagiarism*

A student shall not plagiarise in any assessment exercise.

Part VIII. PENALTY FOR BREACH OF RULES

28. *Penalties*

(a) If a candidate commits a breach of any rule contained in Parts VI and VII of these rules, the candidate may be dealt with under By-law 9(2) or 9(3).

(b) A candidate who commits a breach of a rule contained in Parts VI and VII of these rules shall be liable in addition to any other penalty to incur the following penalties.

For a first breach -

(i) the award of a low fail result in the subject concerned, or

(ii) the award of low fail results in all subjects in which the student would have received final results in the same academic semester.

For a further breach -

(i) exclusion from the University for a period, or

(ii) permanent exclusion from the University.

A candidate incurring either of these last mentioned penalties resulting in exclusion from the University shall have a right of appeal to the Council.

(c) Any complaint that a student allegedly breached a rule contained in Parts VI or VII of these rules shall be referred to the Registrar, or an officer delegated by the Registrar to deal with examination matters, to determine whether the complaint should be investigated. The Registrar, or other officer, shall notify the Vice-Chancellor of any alleged breach which it has been resolved should be investigated. The Vice-Chancellor may in writing require the student to show cause within not less than seven days from the date of such

requirement why penalty should not be imposed under this rule. In the event of the student failing to show cause, acceptable to the Vice-Chancellor, the Vice-Chancellor may impose a penalty as provided for in this rule 28.

(d) Any penalty imposed under this rule shall be communicated to the relevant Dean of Faculty for information.

Part IX. ASSESSMENT OF RESULTS

29. *List of Candidates*

The Registrar shall supply to each examiner or Head of Department/School a list of candidates for whom a result is required in each subject. Such list shall be referred to as the Examiner's Return.

30. *Duties of Examiners*

The Examiners shall furnish to the Head of Department/School offering the subject through the Chief Examiner where such is appointed -

(a) The Examiner's Return amended to show -

(i) such details of each candidate's performance as may be required by the Head of Department/School or Chief Examiner;

(ii) a statement of those from whom no script was received;

(iii) the name of any candidate who submitted a script and whose name was not included in the list supplied by the Registrar.

(b) the examiner's recommended grade lines.

31. *Powers and Duties of Head of Department/School offering subjects*

Prior to the consideration of results by Academic Boards, the Head of Department/School may approve or vary the percentage or result recommended for each candidate, provided always that, before making such a variation, the Head of Department/School shall advise the examiner concerned of the variation proposed and consider any representation that the examiner may wish to make.

32. *Provision of Information to Academic Boards*

On the basis of the results furnished by the Head of Department/School offering subjects, the Registrar shall provide to each Academic Board -

(a) For each subject offered by a Department or School within the Faculty and which is being assessed in the current examination period, a list showing the result recommended for each candidate, and an analysis of the recommendations showing the numbers of each grade of pass or failure recommended; and

(b) For each course administered by the Faculty, a list of the students enrolled showing the recommended result for each subject in which the student is enrolled.

33. *Powers and Duties of an Academic Board in relation to subjects offered by the Faculty*

(a) The Academic Board shall review the recommended grade lines for each subject offered by the Faculty and the recommended result for each candidate and shall determine the final result in terms of the grade of result set out in Part IX of these rules to be recommended to each Academic Board which administers a course or courses having candidates enrolled in those subjects.

(b) Application of Academic Board Policy

Where an Academic Board has prescribed a policy which requires an adjustment of results the Dean of Faculty, before submitting results recommended for each candidate to the Academic Board, shall adjust the recommended grades in any subject in accordance with that policy, and shall report any adjustment so made to the Academic Board.

34. *Powers and Duties of an Academic Board in relation to students undertaking courses administered by the Faculty*

(a) The Academic Board shall review the results recommended for each student in the course and, in terms of the approved course rules and such policy as has been set down by the Academic Board, shall determine -

(i) whether action should be taken to amend a recommended result in terms of Rule 34(b)(iii);

(ii) whether the candidate shall be granted conceded passes in subjects in which passes have not been granted;

(iii) whether the candidate shall be granted supplementary examinations or shall be required to submit for such other additional means of assessment as the Academic Board shall determine.

(b) In reviewing the results for each student undertaking one of its courses an Academic Board may only determine a result different from that recommended by the Academic Board offering the subject in one of the following ways -

(i) in accordance with Rule 34(a)(ii);
(ii) in accordance with Rule 34(a)(iii);
(iii) after advice to the Head of Department/School offering the subject, or the Chief Examiner, of the intended variation to the candidates result and only after consideration of any matters which that Head of Department/School or Chief Examiner may wish to place before the Academic Board.

(c) Where an Academic Board administering a course has determined a policy in relation to the assessment of examination results it may delegate to a Committee of the Board the authority to exercise its powers under these rules. All such

authority exercised on behalf of the Board must be consistent with the policy laid down by the Board and all decisions made by the Committee must be reported at the next meeting of the Board.

35. *Powers of Alteration*

A result determined by the Academic Board administering a course, and a decision concerning the granting of supplementary examination to a candidate may be altered by the Dean of Faculty administering the course with the concurrence of the Head of Department/School or Chief Examiner concerned -

(a) to correct a patent error, or

(b) to make the result or decision accord with the result or decision which the Dean of Faculty and the Head of Department/School, Chief Examiner and where possible the examiner, are satisfied would have been confirmed or made by the Academic Board if it had considered relevant circumstances which were not considered by the Board.

Any such alteration and the reasons therefore shall be reported to the Academic Board at its next meeting, and shall be reported to the Registrar for the purpose of amending the student's academic record.

36. *Grading of Results*

(a) A pass in each subject may be designated as a High Distinction (HD), Distinction (D), Credit (C) or Pass (P).

(b) Where the Academic Board administering the course so determines in accordance with Rule 33 a Pass Conceded (Q) may be awarded in a subject.

(c) Where the Academic Board administering the course so determines, all candidates gaining a pass in a subject may be awarded with a result of Pass - Non Graded (R).

(d) Where the Academic Board administering the course so determines, all candidates in a subject may be assessed as having Satisfactorily Completed (G), or Not Satisfactorily Completed (Z) the subject.

(e) Where students have been granted supplementary examinations in subjects, they may not subsequently be awarded with a grade higher than Pass - Supplementary (T) in those subjects.

(f) Where students have been granted deferred examinations they may be awarded passes in terms of High Distinction (HD), Distinction (D), Credit (C), Pass (P), Non-Graded Pass (R), Satisfactorily Completed (G) or Pass Conceded (Q).

(g) A fail in each subject will be designated as a Fail (N) or Low Fail (L) except that where candidates have no assessment in subjects they will be awarded Fail - No Assessment Undertaken (X) or where students notify of their withdrawal from

subjects after the official cancellation date and they are not granted cancellation without penalty they will be awarded Fail - Late Cancellation (K) or where students are not successful at a supplementary examination they will be awarded Fail - Supplementary (M).

37. *Unfinalised Results*

(a) *Withheld Results*

Where candidates have failed to comply with the Rules pertaining to a particular subject or course, irrespective of whether they have been permitted to sit for the relevant examinations or not, or where the Academic Board administering the course decides that further assessment is desirable before release of candidates final results, such results in either a particular subject or all of the subjects may be withheld at the discretion of the Academic Board until the candidates have fulfilled all requirements to the satisfaction of the Academic Board.

In such cases, the Registrar shall advise the student in writing to contact the Head of Department/School offering the subject to ascertain exact requirements to enable the final result to be issued. Except in the case of the Academic Board administering the course having decided that further assessment is desirable before release of a final result, the student shall be given the opportunity to show cause to the Registrar why the result should not be withheld.

(b) *Finalisation of Results*

Where a deferred examination or a supplementary examination is conducted as a Central Examination the Academic Board administering the course in which the student is enrolled must notify the Registrar of the final result within seven days of the date of the Central Examination.

In the case of all other unfinalised results, the Academic Board administering the course in which the student is enrolled must notify the Registrar of a final result, in the case of a result pertaining to the Spring semester, no later than the last Friday in January of the succeeding year, and in the case of a result pertaining to the Autumn semester, no later than two weeks after the commencement of the following Spring semester.

In exceptional circumstances and with the approval of the Academic Board, a result may remain unfinalised until the end of the sixth week of the succeeding semester. In such a case the Academic Board must inform the Registrar in writing of the reason for the delay in the finalisation of the result.

38. *Approval of Release of Results*

(a) The Dean of Faculty shall certify to the Registrar the final results in respect of each candidate in the Faculty after all authorities have carried out their functions and exercised any powers given them under these Rules.

(b) Following certification of results by the Dean of Faculty these will be released at the direction of the Registrar.

Part X. REVIEW OF RESULTS

It is University policy that students may seek a Review of Results in final examinations. Final examinations include Central Examinations, Supplementary Examinations, Deferred Examinations and end of semester/end of year Departmental Examinations.

The University's minimum requirements to be applied in any such review are that marks originally given for each part of each question are consistent with the answer (as opposed to the Lecturer making a new judgement in isolation), that all sections have been marked, and that the aggregate marks for the paper were accurately compiled.

39. *Application for Review of Results in Central Examinations and End of Semester/End of Year Departmental Examinations*

The papers submitted by a candidate in any Central Examination, Supplementary Examination, Deferred Examination, end of semester/end of year Departmental Examination shall be reviewed on request lodged by the candidate with the Registrar not later than the date prescribed in the Calendar in the case of end of semester/end of year examinations, or within seven days of posting results in the case of Deferred or Supplementary Examinations, and on payment of a fee prescribed by the Council.

40. If, on review, a higher grade of pass or a pass in place of a failing grade is awarded to the candidate, the fee so paid shall be refunded.

Part XI. UNSATISFACTORY ACADEMIC PERFORMANCE

The following Rules 41 to 46 apply only to students who are registered in an approved course of study. Unregistered Students must apply for enrolment each year and their applications may be accepted or rejected by the Registrar on the recommendation of the relevant Head of Department.

41. *Probationary Enrolment*

A student shall be placed on probationary enrolment if either -

(a) the student has in the most recent semester failed a subject which has been failed previously;
or

(b) the student is on probationary enrolment and during that period of probationary enrolment has failed a subject which has been failed previously;
or

(c) the student has a weighted grade average of less than 3.0 in the course in which he or she is enrolled, provided that the weighted grade average in the most recent semester was at least 1.00;

or

(d) the student has during an academic year undertaken as part of the QUT course two or more subjects from an external institution and has failed more than half of such external subjects.

For the purpose of Rule 41(a) and 41(b) a subject is uniquely identified by the subject code. Where a subject code has been changed to indicate a change in the Faculty or department responsible for the subject, the subject will be deemed to be the same subject for the purpose of Rule 41(a) and (b).

The Registrar shall notify all students who have been placed on probationary enrolment.

42. *Terms of Probationary Enrolment*

(a) A student placed on probationary enrolment at the end of Autumn semester shall remain on probationary enrolment for the duration of the following Spring semester. A student placed on probationary enrolment at the end of Spring semester shall remain on probationary enrolment for the duration of the following Autumn and Spring Semesters.

(b) If a student cancels or lapses enrolment while on probationary enrolment, any subsequent enrolment in that course shall be a probationary enrolment. For the purposes of Rule 43 the terms of probationary enrolment before and after the period of lapsed enrolment shall be counted as one period of probationary enrolment.

(c) A student on probationary enrolment is required to enrol as the Head of Department directs.

(d) The Registrar shall advise all students on probationary enrolment that they should discuss their progress with the Head of Department or his nominee.

43. *Exclusion*

(a) At the end of each academic year, the Academic Board responsible for the course shall review the academic performance of each student enrolled in the course.

(b) The Academic Board may exclude a student from further enrolment in the course if the student is eligible for a second or subsequent period of probation in the course.

(c) The Academic Board may exclude a student from further enrolment in all courses or a specified group of courses offered by the Faculty if the student is eligible for probationary enrolment and either has had at least two periods of probationary enrolment in courses offered by the University or has been excluded from another course offered by the University.

(d) On the recommendation of the Academic Board the Academic Assembly may exclude a student from further enrolment in all courses offered by the University if the student is eligible

for exclusion from a course under Rule 43(b) and also has been excluded previously from a course in another Faculty.

(e) The Registrar shall notify all students who have been excluded under Rule 43(b), (c) or (d) by registered mail.

44. *Right of Appeal*

(a) A student who is excluded under Rule 43 shall have the right of appeal to Council. All appeals against exclusion shall be lodged in writing with the Secretary of Council. Each letter of appeal must state the grounds and reasons for appeal and must be delivered or posted so as to reach the Secretary of Council within fourteen calendar days of the date appearing on the Registrar's letter advising the student of the exclusion.

(b) Each appeal is forwarded in the first instance to the Academic Board which recommends to Council whether the appeal should be upheld or dismissed. Where the Academic Board recommends that the appeal be dismissed the appeal shall be considered by the Appeals Committee of Council, which shall recommend to Council whether the appeal should be upheld or dismissed.

(c) When an appeal against exclusion is upheld, the student shall be placed on probationary enrolment for the remainder of the academic year under the terms set out in Rule 42.

45. *Readmission After Exclusion*

(a) A student excluded under these Rules may apply for and be considered for readmission. Such readmission shall not take place until at least four semesters have elapsed since exclusion.

(b) An application for readmission after exclusion shall be made in writing to the Registrar no later than two months prior to the commencement of the semester in which readmission is sought.

(c) Applications for readmission shall be considered by the Academic Board responsible for the course from which the student was excluded. In considering applications the Academic Board may take into account changed circumstances, for example, academic and/or vocational performance since exclusion, maturity and motivation.

(d) A student readmitted under these rules shall be placed on probationary enrolment for the remainder of the academic year under the terms set out in Rule 42.

(e) At the end of the academic year, the Academic Board shall review the academic performance of each student readmitted to the course during that year. If a student has obtained a Weighted Grade Average since readmission of less than 3.50, the student may be excluded under Rule 43.

(f) If the student is permitted under Rule 43(e) to proceed with the course, in subsequent years the student is subject to Rule

41. For the purposes of Rule 41, subjects failed prior to the period of exclusion and the Weighted Grade Average prior to the period of exclusion shall be taken into account.

46. Maximum Time in Which to Complete an Award

(a) In order to obtain an award, the student must successfully complete the requirements for the award as specified in the rules for the course within a maximum number of calendar years as set out below:

Course - (Maximum Time)

Bachelor degree level courses (excluding combined degrees) - (10 years)

Combined bachelor degree level courses - (11 years)

Diploma level courses (excluding post-basic nursing courses) - (10 years)

Post-basic Nursing diploma courses - (4 years)

Associate Diploma level courses - (7 years)

Post-graduate Diploma level courses with normal duration of one year full-time, or two years part-time - (4 years)

Post-graduate Diploma level courses with normal duration of three years part-time - (5 years)

Master degree level courses (course work) - (6 years)

Master degree level courses (by research and thesis) as prescribed in relevant course rules

For the purposes of Rule 46, the length of time over which the student has acquired credit in the course is taken as the elapsed time in calendar years from the first day of the semester in which the student completed a valid semester of enrolment to the most recent subject attempted in the course, exclusive of exemptions granted, irrespective of periods of exclusion or periods of absence whether approved or not.

(b) If the time over which the student has acquired credit in the course equals the maximum time specified in Rule 46(a), and the student has not completed the requirements for the award, the student shall be excluded from further enrolment in the course.

(c) The Registrar shall notify all students excluded under Rule 46(b) by registered mail.

(d) A student who is excluded under Rule 46(b) shall have the right of Appeal to Council. All appeals against exclusion shall be lodged in writing to the Secretary of Council. Each letter of appeal must state the grounds and reasons for appeal and must be delivered or posted so as to reach the Secretary of Council within 14 calendar days of the date appearing on the Registrar's letter advising the student of exclusion.

(e) Each appeal is forwarded in the first instance to the Academic Board which recommends to Council whether the appeal should be dismissed or whether the student should be permitted to continue enrolment in the course for a specified period provided that the student undertakes such subjects, special examinations or other requirements as the Academic Board may determine to be appropriate in order for the student to complete the requirements of the award. Where the Academic Board recommends that the appeal be dismissed, the appeal shall be considered by the Appeals Committee of Council. If the Appeals Committee recommends that the appeal be upheld, the appeal shall be referred back to the Academic Board to determine the conditions under which the student may complete the course requirements. The recommendation of the Academic Board and/or the Appeals Committee shall be forwarded to Council for approval.

RULES RELATING TO THE APPEALS COMMITTEE

1. *General*

(a) The Appeals Committee of Council will comprise -

Deputy Director (Chairman)
Three members of Council, one of whom shall be a student
Two academic staff from different Faculties appointed by the Academic Assembly
One student nominated by the QUT Union
Head of Counselling

(b) The Committee will consider all appeals against the imposition of penalties under the provision of Rule 28(b), Rule 43 and Rule 46 of the University's General Examination Rules and will communicate its findings and recommendations in writing to Council for approval.

(c) All appeals against the imposition of penalties under Rule 28(b), Rule 43 and Rule 46 of the University's General Examination Rules shall be lodged in writing with the Secretary of Council. Each letter of appeal must state the grounds and reasons for appeal and be delivered or posted so as to reach the Secretary of Council within fourteen (14) calendar days of the date appearing on the letter advising the students of the penalties imposed.

2. *Appeals Under Rule 28*

(a) In reaching its findings and recommendations, the Committee shall have regard only to the following matters -

(i) whether the original decision to exclude the candidate from the University was correct in terms of the provisions of General Examination Rule 28;

(ii) whether the procedures set out in General Examination Rule 28 were properly carried out;

(iii) the severity or otherwise of the penalty imposed.

2. *Appeals Under Rule 43 and Rule 46*

(a) An academic staff member on the Committee shall stand down from the Committee during the hearing of an appeal made by a student from the Faculty on which the staff member serves.

(b) In reaching its findings and recommendations, the Committee shall have regard only to the following matters -

(i) whether the penalty imposed under General Examination Rule 43 or Rule 46 complies with the provisions of that Rule and the policy of the relevant Academic Board in relation to that Rule;

(ii) whether the procedures set out in General Examination Rule 42 were properly carried out;

(iii) the severity or otherwise of the penalty imposed.

(iv) mitigating circumstances advanced by or on behalf of the student in the appeal.

RULES RELATING TO NON-RELEASE OF EXAMINATION RESULTS

1. Subject to the following Rules, the Registrar, acting on the recommendation of a Dean of Faculty, the Chief Librarian, the Computer Manager, the Bursar or other officer authorised by Council, may approve that a student's examination results for a specified semester or year not be published or released to the student. The student shall be advised in writing of the Registrar's decision.

2. A Dean of Faculty, the Chief Librarian, the Computer Manager, the Bursar or other authorised officer may recommend that a student's examination results not be published or released if, by the last day of a semester's examination period as prescribed in the University Calendar -

(a) the student fails to return to the University equipment which the student has borrowed from the University and which is overdue for return; or

(b) the student fails to meet a debt or obligation to the University where such class of debt or obligation has been deemed by the Council to warrant the non-release of examination results.

3. In these Rules the term 'equipment' means all physical stock including computer hardware and sfotware, library books and other library materials.

4. The Registrar shall, upon receipt of advice from the Dean of Faculty, Chief Librarian, the Computer Manager, the Bursar, or other authorised officer that a student has returned all overdue items of equipment, made adequate restitution in lieu of the return of overdue equipment or met a debt or obligation to the University as defined in Rule 2(b) above, cause the student's examination results to be released as soon as is practicable.
5. A student whose examination results have not been released, pursuant to a decision of the Registrar under these Rules, may appeal to the Vice—Chancellor against the decision of the Registrar. The appeal, setting out the grounds and reasons therefore, must be made in writing and be lodged with the Vice-Chancellor not more than fourteen days after the date appearing on the letter advising the student of the Registrar's decision.
6. The Vice-Chancellor shall consider the appeal, making such enquiries as he or she deems necessary, and shall advise the student in writing of the results of the appeal.

QUEENSLAND UNIVERSITY OF TECHNOLOGY LIBRARY RULES

QUT MAIN LIBRARY RULES

1. *Authority of the Chief Librarian*

   The Library shall be administered by the Chief Librarian. Subject to the overall control of the Vice-Chancellor and the University Council, the Chief Librarian shall -

   (a) Prescribe the procedures to be followed by Library users;

   (b) Exercise disciplinary authority with respect to the behaviour of users of the Library;

   (c) Exercise disciplinary authority with respect to the preservation, consultation and loan of library materials.

2. *Library Usage*

   (a) *Entitled Users*

   (i) Subject as below, the Chief Librarian may permit any person to use any facility of the Library and determine the conditions under which such use is permitted. Failure to comply with any such conditions shall be a breach of these Rules.

   (ii) The following are entitled to use the Library for study and research -
   - Students of the University;
   - Staff of the University;
   - Members of the University Council;
   - Special users who are -
     - reciprocal users (as defined in written agreements with QUT);
     - any other person or group approved by the Chief Librarian.

   (iii) The Chief Librarian may make a charge to any user or users for library materials, services or other facilities, in accordance with the Schedule of Charges attached to these Rules. Any amendment to the Schedule of Charges is to be approved by the Vice-Chancellor and the University Council.

   (iv) Any person entitled or given approval to use any facility of the Library may be required to complete and sign a registration card undertaking to comply with the Rules.

   (v) Any person entitled or given approval to use any facility of the Library, and wishing to do so, must obtain a QUT Library Membership Card or a QUT Identity Card, whichever is appropriate.

   (b) *Hours of Opening*

   The hours during which the Library shall be open shall be prescribed by shall be open shall be prescribed by the Chief Librarian, subject to the approval of the Vice-Chancellor,

and posted at the entrance to the Library. Prior notice through normal University channels will be given of any change in the hours of opening.

(c) *Rules for General Conduct*

(i) No person shall in the Library behave in a manner which, in the reasonable opinion of any Librarian on duty, is not a proper manner and a proper use of the Library, or which interferes with the comfort or convenience of, or the use of the Library by other persons.

(ii) No person may eat or drink in the Library except in such areas as are specifically set aside by the Chief Librarian for any of these purposes. No animals may be brought into the Library.

(iii) Bags, cases or other material may be brought into the Library, but must be offered for inspection on leaving the Library if requested by a member of the Library staff.

(iv) No person may reserve a seat in a general reading area, except in Closed Carrels. Articles left unattended in the Library for more than 30 minutes may be removed by Library staff. The University, Chief Librarian and Library staff shall have no responsibility for personal belongings left in the Library.

(v) An atmosphere of quiet must be maintained in the Library so that it is at all times a place conducive to independent study and quiet reading. Silence must be kept in the main reading areas and conversation restricted to the Seminar rooms and other specified areas.

(d) *Borrowing Responsibilities*

(i) A current Identity Card is necessary for borrowing Library materials and should be carried at all times.

(ii) A borrower is responsible for safe-keeping and return of the materials borrowed by him or her from the Library.

(iii) All borrowers must complete the appropriate procedures for each item borrowed.

(iv) All items on loan must be returned on or before the last date stamped on the date due slip or where appropriate, before the expiration of a recall notice.

(v) Names of borrowers will not be revealed without the borrower's consent.

(vi) Borrowers are responsible for notifying the Library of any change of address.

(e) *Loans*

(i) Restrictions may be placed on the number of items

which a user may have on loan at any one time.

(ii) *Books*
The usual loan period for books is four (4) weeks, normally renewable once. From time to time, certain items may be placed in the Limited Access Collection (i.e. for use only in the Library) or on Short Term Loan (i.e. for a one (1) week non renewable loan period).

In addition, loan periods for certain items may be adjusted in accordance with patterns of use in an effort to ensure equitable distribution.

(iii) *Extended Book Loans*
With the approval of the Chief Librarian, full-time academic staff may borrow, for one extended period only, books required in the planning of courses or subjects. Requests for extended loans must be submitted in writing. Extended loans will not be renewed. Extended loans normally will be from 1st December to 31st July of the following year, or from 1st June to 30th November of the same year.

(iv) *Periodicals*
Unbound issues of periodicals (other than current issues or issues on display) may be borrowed by staff for one week. Loans of periodicals are not renewable. Monographic Series (e.g. Advances in . . .) may be borrowed by staff and students for one week. Loans of Monographic Series are not renewable.

(v) *Audio-Visual*
Most types of audio-visual materials, with the exception of films and video, may be borrowed for two (2) weeks by staff and students.
Films and video may be borrowed by staff only for a period of one (1) week.

Audio-visual loans are not normally renewable.

(f) *Limited Access Collection*

(i) Only QUT students and staff and other persons approved by the Chief Librarian may use the Limited Access Collection.

(ii) No items borrowed from the Limited Access Collection may be removed from the Library, except as specified in Clause 2(f)(iv) below.

(iii) The Normal loan period is two (2) hours which is renewable if demand permits. Overnight loans are permitted from half an hour before closing time until half an hour after opening time the next day.

(iv) Students and staff must leave their QUT Identity Card as a deposit before being permitted to remove any item from the Limited Access Collection.

(g) *Non-Loanable Materials*

Non-loanable materials are as follows -

(i) Reference works;
(ii) Maps and Charts;
(iii) Theses;
(iv) Bound volumes of periodicals;
(v) Newspapers;
(vi) Other designated special collections.

3. *Penalties etc.*

(a) *General*

(i) A charge under these Rules shall be a debt to the University.

(ii) Subject as below, penalties ie. reprimand, fines, withdrawal of borrowing privileges, exclusion from the library or other specified sanction, for breaches of these Rules may be imposed by the Chief Librarian on any user.

(iii) Penalties (as specified in 3(a)(ii) above) may be waived by the Chief Librarian in special circumstances.

(iv) The Registrar, acting on the recommendation of the Chief Librarian, may refuse to publish or release a student's examination results for a specified semester or year when the student fails to return a borrowed item which is overdue or fails to meet a debt to the University.

(b) Reprimand

Failure to observe these Rules may incur a reprimand from the Chief Librarian or the Senior Librarian on duty, together with a warning against repetition of the offence.

(c) *Fines for Late Returns*

(i) *All loans other than Limited Access or Short Term Loans*

- When a item is overdue, an overdue notice will be sent to the borrower;
- If an item is returned late, a fine will be imposed at the rate of 25c. for each day that the item is overdue from the date due, up to a maximum of $25.00.

(ii) *Limited Access Collection Loans*
A fine of 50c. per hour will be imposed for each hour or part thereof that an item is late, up to a maximum of $25.00.

(iii) *Short Term Loans*
A fine of 50c. per day, per item, will be imposed for each day the item is late, up to a maximum of $25.00.

(d) *Loss of Borrowing Rights*

A user's borrowing rights may be withdrawn if one item or more is overdue. Once borrowing rights have been removed they will not be restored until the overdue item/items are returned and the accrued fines are paid.

(e) *Library Material Lost or Damaged in the Care of the Borrower*

(i) *Lost Material*

If an item appears to be lost, the loss must be reported to the Lending Services Desk Clerk or the Lending Services Librarian. If an item is not returned within 5 weeks of the date stamped on the due date slip, the item is presumed lost. If after a reasonable search by both Librarian and borrower the item cannot be found and proof of return cannot be shown, the borrower shall be responsible for the replacement cost plus a processing charge of $10.00 per item, up to a maximum of $100 per item, to be paid within 14 days of date of notification.

(ii) *Damaged Material*

If an item is returned from loan damaged, the borrower shall be responsible for its replacement cost, whether of the whole or part of the item, together with a processing charge of $10.00 up to a maximum of $100.00 per item, to be paid within 14 days of notification.

(f) *Exclusion*

(i) Any person who fails to observe these Rules or who disfigures or damages any document or other Library facility may be excluded from the Library for up to one semester and shall be responsible for any damage caused.

4. *Appeals*

(a) Any person upon whom a penalty (as defined in 3(a)(ii) hereof) has been imposed may, within fourteen (14) days of the imposition, challenge the imposition of the penalty and/or appeal against the imposition of the penalty, and any action which may be taken under Section 3 will be suspended pending determination of the challenge or appeal.

(i) Any challenge or appeal should in the first instance be made in writing to the Registrar.

(ii) An appeal against a decision of the Registrar must be made in writing within seven (7) days to the Vice-Chancellor.

(iii) On appeal, the Registrar or the Vice-Chancellor, as the case may be, if there are extenuating or exceptional circumstances, may allow the appeal or reduce or waive the penalty.

5. *Library Copying and Copyright*

   (a) *Permissible Copying*

   Unless otherwise permitted by the Copyright Act 1968, unauthorized copying of a work in which copyright subsists may infringe the copyright in that work. A copyright owner is entitled to take legal action against a person who infringes his or her copyright.

   Under Section 40 of the Copyright Act 1968, it is a fair dealing to make a single copy, for the purpose of research or study, of one or more articles on the same subject matter in a periodical publication or, in the case of any other work, of a reasonable portion of a work. In the case of a published work that is of not less than 10 pages and is not an artistic work, 10% of the total number of pages, or one chapter, is a reasonable portion.

   Certain University copying facilities are designated as 'multiple copying facilities'. These 'multiple copying facilities' are situated within the University Library, the Printing Centre and the Faculty of Law only and specifically identified on an adjacent notice.

   (b) *Non-Copyright Material*

   There is no restriction on the copying of non-copyright material. Aside from personal papers, readers may be required to establish that the copies they have made are non-copyright matter. In some cases a statement is made on a publication permitting copying. Otherwise readers should assure themselves BEFORE making copies that they have the necessary authority OR are acting within the meaning of the Copyright Act 1968.

6. *Notices*

   Any notices to be given to a person under these Rules shall be deemed to be sufficiently given if sent to him or her by mail at his or her address registered with the Library and shall be deemed to have been received by the person to whom it is addressed in the ordinary course of the post.

7. *Schedule of Service Charges*

Service	User Category	Conditions
1. Literature (Citation) Searching on online systems	QUT Staff	No charge, subject to the search being for QUT teaching or QUT supported research.
(a) Comprehensive	QUT Postgraduates	No charge, provided searches approved by the Head of Department as being an essential part of a program of study.
	QUT Undergraduates	If engaged in major project as for postgraduates. Otherwise, as for non QUT
	Non-QUT	*Overseas databases* - $7.00 per minute of keyboard time plus print costs. *Australian databases* - $5.00 per minute of keyboard time, plus print costs.
(b) Limited	QUT Staff and students	$15.00 per search (minisearch) $30 per search (basic search)
2. Numeric data searching on online systems	QUT staff and students (as in 1(a))	No charge, subject to the search being for QUT teaching or QUT supported research
	Non QUT	$35.00 base charge plus $7 per minute keyboard time and offline plot costs
3. Manually prepared Bibliographies	QUT staff and students	No charge, subject to the search being for QUT teaching or QUT supported research
	Non QUT	By negotiation (based on preparation time)
4. (a) Loans (other than films) from QUT	QUT staff and students	No charge
	QUT Graduates	$15.00 per year
	Non QUT individuals	$20.00 per year
	Companies (up to 3 borrowing)	$50.00 per year
(b) Loans (film)	QUT staff - teaching purposes	No charge
	QUT staff - Continuing Education & Consultancy	$25

	Other specified tertiary institutions	Reciprocal Arrangements
	Other organisations	$25
	QUT students	Not available
	Non QUT individuals	Not available
(c) Obtaining materials held by QUT Library	QUT staff	Services provided in special circumstances
	QUT students	Cost subject to negotiation
	Non QUT	$6 per item
(d) Obtaining materials not held by QUT Library	QUT staff	No charge, subject to loan being for QUT teaching or QUT supported research
	QUT students	No charge. (Request must be supported by supervising academic staff member)
	Non QUT	$10.00 plus costs for first request, $5.00 plus costs for each subsequent
(e) Loans (film) from other collections	QUT staff - teaching purposes	No charge
	QUT staff - Continuing education & Consultancy	$25 plus costs
	QUT students	Not available
	Non QUT	Not available
5. Online access to QUT Library data base	QUT staff and students	No charge subject to access being for QUT teaching or QUT supported research
	Non QUT	$20 per hour connect time
6. Other services		
(a) Workspace facilities	QUT staff and students	No charge, provided room is wanted for QUT teaching or QUT supported research
	Non QUT	Charge per half day at discretion of Chief Librarian
(b) Displays	QUT staff and students	No charge for displays time to QUT teaching or QUT supported research
	Non QUT	By negotiation

FACULTY OF LAW LIBRARY RULES

1. *Definition*

   In these rules the word 'Library' means the Law Faculty Library.

2. *Administration*

   The Library shall be administered in accordance with these Rules by the Law Faculty Librarian under the direction of the Dean of the Faculty of Law.

3. *Reference Library*

   The Library shall be a reference Library and, except in the case of material required for use in a Law Faculty Moot, or in any case approved by the Dean of the Faculty of Law, Library material or equipment shall not be removed from the Library.

4. *Hours of Opening*

   The hours during which the Library shall be open shall, after consultation with the Chief Librarian, be prescribed by the Dean of the Faculty of Law, subject to the approval of the Vice-Chancellor, and shall be posted at the entrance to the Library. Prior notice shall be given of any change in the hours of opening.

5. *Library Users*

   (a) The following persons shall be entitled to use the Library for study and research -

   (i) students of the University;
   (ii) staff of the University;
   (iii) members of the Council of the University;
   (iv) any other person approved in advance by the Dean of the Faculty of Law.

   (b) Any person seeking approval to use the Library under Rule 5(a)(iv) must apply in writing to the Dean of the Faculty of Law.

   (c) Any person wishing to use the Library must possess a QUT identity card or the written approval of the Dean of the Faculty of Law, whichever is appropriate, and must produce such card or approval upon request by the person on duty at the Reader Assistance desk.

6. *Conduct of Library Users*

   (a) Briefcases and bags must not be taken into the Library. On leaving the Library, all material shall be offered for inspection at the request of the person on duty at the Reader Assistance desk.

   (b) No person shall reserve a seat in the Library except in the discussion rooms. Articles left unattended in the Library for more than one hour may be removed by any member of the staff on duty in the Library.

   (c) No person shall use more than five items of Library material at any carrel or table at a time.

(d) Neither the Council of the University nor any of its employees shall be responsible for the safekeeping of personal belongings of Library Users.

(e) No person shall smoke, eat or drink in the Library.

(f) No person shall in the Library conduct himself in a manner which, in the opinion of the Law Faculty Librarian, the Assistant Librarian or the person on duty at the Reader Assistance desk, is not a proper manner and a proper use of the Library, or which interferes with the comfort or convenience of, or the use of the Library by, other persons.

(g) No person shall mark, deface or otherwise damage or destroy any Library material, equipment, furniture or other property, or any part of the Library.

7. *Limited Access Collection*

Subject to Rule 3, a person entitled to use the Library may, upon application to the person on duty at the Reader Assistance desk and upon surrendering his QUT identity card or the written approval referred to in Rule 5(c), whichever is appropriate, as a deposit, use not more than two items from the Limited Access Collection for up to two hours at a time.

8. *Moots*

In the case of a Law Faculty Moot, authorised by the Dean of the Faculty of Law, the Law Faculty Librarian or the Assistant Librarian may allow material to be removed from the Library for use in such Moot.

9. *Copying and Copyright*

No person shall use any photocopier in the Library for a purpose which infringes copyright under the Copyright Act, 1968 (Cth). (The relevant sections of such Act are posted near each photocopier and a copy of the Act may be obtained on application at the Reader Assistance desk).

10. *Penalties*

(a) Any person who commits a breach of any of Rules 3, 5, and 6 may be reprimanded and warned against repetition of the breach, and/or excluded from the Library for a specified period not exceeding seven days, by the Law Faculty Librarian, the Assistant Librarian or the person on duty at the Reader Assistance desk.

(b) Any person who commits a breach of Rule 7 may be reprimanded and warned against repetition of the breach, and/or his privilege of using items from the Limited Access Collection may be withdrawn for a specified period not exceeding seven days, by the Law Faculty Librarian, the Assistant Librarian or the person on duty at the Reader Assistance desk.

(c) Any person who marks, defaces or otherwise damages, or

destroys, any Library material, equipment, furniture or other property, or any part of the Library shall be liable for the cost of making good the damage or replacing the property, such cost to be determined by the Law Faculty Librarian.

(d) Any person who imposes any penalty under Rule 10(a), (b) or (c) must, as soon as practicable thereafter, notify the Dean of the Faculty of Law in writing.

11. *Appeals*

(a) Any person who is excluded from the Library or whose privilege of using items in the Limited Access Collection is withdrawn or who is liable for the cost of making good damage or replacing property under Rule 10 may, within seven days thereafter, appeal to the Dean of the Faculty of Law against the penalty, whereupon the penalty shall be suspended pending the determination of the appeal.

(b) On such an appeal as is provided for by Rule 11(a) the Dean of the Faculty of Law may allow the appeal or dismiss the appeal or reduce or waive the penalty.

(c) Any person who is excluded from the Library or whose privilege of using items in the Limited Access Collection is withdrawn or who is liable for the cost of making good damage or replacing property under Rule 10 who appeals to the Dean of the Faculty of Law and is dissatisfied with the decision of the Dean of Faculty may, within seven days thereafter, appeal to the Vice-Chancellor against such decision, whereupon the penalty shall be suspended pending the determination of the appeal.

(d) On such further appeal as is provided for by Rule 11(c) the Vice-Chancellor may allow the appeal or dismiss the appeal or reduce or waive the penalty.

STUDENT GUILD FEE RULES

1. *Interpretation*

In these Rules unless the context otherwise indicates or requires:

'Full-time Student' means a student, including a member of staff of the University, who is enrolled at the University as a full-time student or such other person or persons as the council may from time to time determine.

'Part-time Student' means a student, including a member of staff of the University, who is enrolled at the University as a part-time student or such other person or persons as the council may from time to time determine.

'Sandwich Student' means a student, including a member of staff of the University, who in a particular academic year is enrolled at the University on the basis of attendance on a full-time basis for

one of two semesters, and is required to undertake specified practical training, with or without, part-time study for the remaining semester.

'Guild Fees' means such fees as may be prescribed by the Council for membership of the Queensland University of Technology Student Guild.

'Enrolment' means application for registration as a student of the University, and includes both New Enrolments and Re-enrolments.

2. *Fees to be Paid*

Unless the Council otherwise directs, Guild Fees shall be paid at the time of submitting an enrolment or re-enrolment, on or before the following dates:

(a) in the case of a student applying for re-enrolment or of a student applying for enrolment for the first time in a post-graduate course by the date indicated in the University Calendar.

(b) in the case of a student applying for enrolment for the first time in a bachelor degree, diploma, or associate diploma course -by the date specified on the Acceptance of Offer Form forwarded to the student.

3. *Consequences of Non-payment*

(a) If Guild Fees payable by a student have not been paid at the time of lodging an enrolment, the Registrar may refuse to accept such enrolment.

(b) Any student whose enrolment is not accepted under the provisions of Sub-Rule (a) of this Rule may re-apply for enrolment, up to and including the final date for submission of late enrolments as specified in the University Calendar, subject to the conditions specified in Sub-Rule (a) of this Rule.

(c) Without limiting the effect of Sub-rule (a) of this Rule, a student who has not paid all Guild Fees due and payable by him and who satisfies the Registrar that he is unable to make payment by the date specified for fees to be paid, may be granted an extension of time in which to pay such fees, and may have his enrolment accepted, subject to his agreeing to pay all fees not later than the extended date indicated by the Registrar.

(d) Where a student has lodged an enrolment with the Enrolments Section of the University and Guild Fees due and payable by the student have only been paid in part, the Registrar may refuse to accept or process such enrolment, unless the balance of fees, notified to the student on a Fee Payment Form, have been paid by a date determined by the Registrar and notified to the student.

(e) Without limiting the effect of any of the preceding Sub-Rules of this Rule, if Guild Fees payable by a student remain unpaid within five weeks of the commencement of the first

semester of the academic year in respect of which they are payable, the Registrar may cancel such student's enrolment at any time thereafter.

4. *Refund of Fees on Voluntary Cancellation of Enrolment*

A student who not later than six weeks after the first day of a semester gives proper written notice to the Registrar of withdrawal of his enrolment shall be entitled to a refund of the Guild Fees. Such refund shall be made by the University on behalf of the QUT Student Guild upon the surrender of any current QUT Student Card.

SCHEDULE OF CHARGES AFFECTING STUDENTS

1. *Guild Fees*

Full-time students ..... $100.00 p.a.
Part-time internal students ..... $50.00 p.a.
Part-time external students .....$7.00 p.a.
Sandwich course students ..... $50.00 p.a.
All other members ..... $50.00 p.a.

An unregistered student shall be required to pay the appropriate full-time or part-time fee corresponding to his attendance status.

A student undertaking a thesis only shall be required to pay the appropriate full-time or part-time fee corresponding to his attendance status.

2. *Admission, Enrolment and Examination:* Council has approved the following Schedule of Charges -

Late lodgement of Enrolment Application - for applications received after the closing date set out in the University Calendar $30.00

Charge for adding a subject to study program or substituting one subject for another in study program after the final date for additions and substitutions set out in the University Calendar $20

Refundable Deposit for review of Special Consideration decision $20.00

Review of Examination Results .....$6.00 per paper with a maximum of $12 per subject

Statement of Academic Record

Each student shall be entitled to receive an official statement of Academic Record free of charge at the time of graduation.

Statements supplied at any other time .....$5.00 per copy
Re-Issue of Identity Card $3.00

Charge for obtaining a student identity card (other than a reissue) after March 30 ..... $10
(this charge will be waived for students who do not enrol until Spring Semester)
Re-Issue of Award Certificate $15.00
Re-Issue of Receipt for fees paid $2.00

3. *Deposit System for Use of Laboratory Facilities*

(a) A student enrolled in any subject included in the 'Schedule of Subjects relating to Laboratory Deposits' which the Registrar may vary from time to time, shall deposit $50 for the use of laboratory facilities.

(b) A student shall be required to pay only one deposit irrespective of the number of such subjects included in an enrolment.

(c) At the end of the year the deposit shall be refunded to the student less the cost of any breakages which have not been made good.

PARKING REGULATIONS

Council has approved regulations relating to the parking of motor vehicles on campus.

(a) A member of staff or a student shall not be permitted to park a vehicle within the grounds of the University unless such person has previously made application for a parking permit and this permit has been granted.

(b) The privilege of parking within the grounds shall be subject to such conditions as may be imposed at the time the permit is issued to the applicant.

(c) An application for permission to park a vehicle within the grounds of the University shall be made on a form prescribed and available at the University Security Office.

(d) For a breach in the parking of a vehicle the Vice-Chancellor may revoke the permit for a specified period or for the remainder of the academic year.

(e) For a breach by a person not possessing a parking permit in the parking of a vehicle, the Vice-Chancellor may arrange for the vehicle to be removed from the grounds of the University and the person shall be required to pay the cost of such removal.

Articulation between QUT and Queensland TAFE Courses

3

ARTICULATION BETWEEN QUT AND QUEENSLAND TAFE COURSES

The growth of the tertiary sector in Queensland is dependent upon the continuance of the education of people who can contribute to the needs of society. Associate Diploma students from TAFE and other tertiary institutions, as well as certain TAFE Certificate students, are encouraged to continue their studies at degree and diploma level at QUT. To ensure that prior studies are given adequate recognition, QUT has reviewed its policies on both the admission of and exemptions given to TAFE applicants. The review process is dynamic and both Queensland TAFE and QUT will continue to monitor the progress of students admitted to QUT courses and the credit given to such students based on previous TAFE studies.

1. *Entry to QUT*

   All applicants must apply through the Queensland Tertiary Admission Centre by the closing date. Entry to all QUT courses is on the basis of competition and quota restriction applies equally to Grade 12 students, Certificate and Associate Diploma holders. QUT publishes Tables in its Admissions Procedures Book which indicates the Selection or Notional Tertiary Entrance Score that will be given to applicants with Certificate and Associate Diploma studies. These tables are based on performance. The better the grades achieved the better the chance applicants have of negotiating QUT quotas.

   Entry is also dependent upon applicants having appropriate prerequisite subjects within their background. This means that an applicant for a degree in engineering at QUT usually would have appropriate pre-requisites if the previous course of study was in the field of engineering but would not necessarily meet the prerequisites by holding an Associate Diploma in Business. The engineering Associate Diploma holder would usually be eligible for a degree in business at QUT, as would usually the holder of an Associate Diploma in Business. In any case, placement in the QUT course would still be dependent upon negotiating the quota. The quota cut-off level of the previous year's intake is published in the QUT's 'Admission Procedures' Book.

2. *Credit for Previous TAFE Associate Diploma*

   Once a student has gained a place in the quota through QTAC, credit is given to the student based on previous study undertakings. QUT Faculty Boards have looked at TAFE Associate Diploma syllabi and have determined appropriate levels of credit from QUT courses based on the content of the TAFE subjects. Initially, credit will only apply to applicants who have completed all of the TAFE course. QUT Faculties have adopted varying attitudes towards the amount of credit that will be given for previous courses and as indicated above the level of credit will be reviewed over time.

3. Specific Credit Given at QUT for Completed TAFE Courses

TAFE Course	QUT Course Equivalent
Built Environment Area	
CNJ74 Associate Diploma of Applied Science - Architectural Technician	ARJ192 Bachelor of Architecture Block exemption Semesters 1 and 2 BTJ227 Bachelor of Applied Science - Built Environment Block exemption Semester 1
CNJ45 Associate Diploma of Applied Science - Building	BGJ201 Bachelor of Applied Science - Building Exemption from subjects: BGB151, 152, 251, 141, 241, 242, 243, BGB340, 345, 405, MAB297, CMB134, SVB101
Business Studies Area	
Associate Diploma of Business:	Bachelor of Business:
CNJ13 General CND71 Accountancy CND25 Computing CND74 Management CND93 Marketing CND97 Purchase and Supply CND99 Transport Administration CNC54 Operations Management CNL04 Aboriginal and Torres Strait Islander Administration	ACJ151 Accountancy CMJ153 Communication MNJ152 Management MNJ154 Public Administration MNJ179 Health Administration The Faculty of Business must accredit individual programs before granting credits. However, the faculty may give exemptions to the extent of one year of full-time study drawn from either core, specialist or elective subjects. Credit may not be claimed for more than half of any specialist/strand area. The granting of any exemption will be conditional upon the meeting of any pre-requisite material contained in other subjects.
Computing/Information Management Area	
CND25 Associate Diploma of Business - Computing including subjects: TSM128, 892, 893, 856, 503	ISJ210 Bachelor of Business - Computing CSJ128 Bachelor of Applied Science - Computing Block exemption from all subjects of the common first year.
Engineering Area	
Associate Diploma of Engineering	Bachelor of Engineering
CN548 Coal Mining CN420 Electrical and Electronics CNG61 Electrical Systems CN759 Mechanical	CEJ156 Civil Engineering EEJ157 Electrical Engineering MEJ158 Mechanical Engineering Application will have to be made for credit from individual subjects but in general exemptions will be given for up to one full-time year of study.

Engineering Area (cont.)

Preparatory Courses	Associate Diploma Courses
CN649 Engineering Bridging Course (completion of bridging course guarantees entry to engineering associate diploma at QUT)	CEL187 Associate Diploma in Civil Exemption from subjects MET120, 141, CET135, EET790, SVT306 plus 1 elective EEL188 Associate Diploma in Electrical Exemption from subjects MET101, 600, MET601, 201, CST390, EET111, 211 MEL189 Associate Diploma in Mechanical Exemption from subjects MET120, 220, MET140, 250, 210, 310

Science Area

Associate Diploma of Applied Science	Bachelor of Applied Science
CN440 Geology CN654 Primary Metallurgy CN758 Sugar Technology CNK82 Hydrology	ASJ226 Bachelor of Applied Science with majors in biology, chemistry, biochemistry, microbiology, geology, mathematics, physics Credit may be given to the equivalent of one year of full-time study. Exemption will be on a subject by subject basis.

Academic Board and Course Assessment Committees

4

ACADEMIC BOARD

Mr T F W M Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr S Arden	Senior Lecturer, Department of Architecture and Industrial Design, QUT.
Ms C Bull	Senior Lecturer, Department of Planning and Landscape Architecture, QUT
Ms D Campbell-Stewart	Student Representative, QUT
Mr D Campbell-Stewart	Senior Lecturer, School of Construction Management, QUT
Mr R Dawes	Representative, Design Institute of Australia
Mr J Donnelly	Course Co-ordinator, Bachelor of Applied Science, Built Environment, QUT
Mr D K Harris	Representative, Australian Institute of Quantity Surveyors
Mr P R Heywood	Head, Department of Planning and Landscape Architecture, QUT
Mr G Holden	Senior Lecturer, School of Architecture and Industrial Design, QUT
Dr B Hudson	Representative, Academic Staff, QUT
Mr J A Leicester	Senior Lecturer, School of Construction Management
Dr B Lim	Acting Head, School of Architecture and Industrial Design, QUT
Ms M Mealey	Representative, Royal Australian Planning Institute
Ms C Millar	Student Representative, QUT
Mr D Nutter	Representative, Royal Australian Institute of Architects
Ms V Popovic	Senior Lecturer, School of Architecture and Industrial Design, QUT

Mr G Richardson	Representative, Australian Institute of Landscape Architects
Dr P N Smith	Representative, Faculty of Architecture, University of Queensland
Mr G B Thomas	Acting Head, School of Construction Management, QUT
Mr P Tilley	Representative, Australian Institute of Building
Mr F Williams	Senior Lecturer, Department of Planning and Landscape Architecture,
Mr J Woolley	Representative, Academic Staff, QUT
Ms J Matthews	Observer, Central Library

Ex Officio:

Deputy Director, QUT
Dean, Faculty of Science, QUT
Dean, Faculty of Business Studies, QUT
Dean, Faculty of Information Technology, QUT
Dean, Faculty of Engineering, QUT
Dean, Faculty of Health Science, QUT
Dean, Faculty of Law, QUT

COURSE ASSESSMENT COMMITTEES

MASTER OF APPLIED SCIENCE
BUILT ENVIRONMENT - URBAN DESIGN STRAND

Internal Members:	
Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr G Holden	Senior Lecturer, Department of Architecture & Industrial Design, QUT
External Members:	
Prof B S Maitland	Head, Department of Architecture, Newcastle University
Mr J Colman	Principal Planner, Cameron McNamara Pty Ltd, Sydney
Mr J Simpson	Architect, J Simpson & Associates, Brisbane
Mr J Price	Landscape Architect, J Price Design, Brisbane

GRADUATE DIPLOMA IN BUILDING PROJECT MANAGEMENT

Internal Members:	
Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr J A Leicester	Course Co-ordinator, Graduate Diploma in Project Management, School of Construction Management
External Members:	
Dr V Ireland	Head, School of Building Studies, NSWIT
Mr J C Hutchinson	Managing Director, J Hutchinson Pty Ltd, Builders & Contractors
Mr G J May	Architect, Department of Works, Queensland
Mr B J Williamson	Director, Division of Building, D.O.W. Queensland
Mr P Teys	Development Project Manager, Fricker Developments (Queensland) Pty Ltd
Mr G S Effle	Construction Manager, Peter Fardoulys Constructions

Mr A K Webster	Project Manager, Thiess Watkins Group
Mr W H George	Partner, Rider Hunt and Partners, Quantity Surveyors and Construction Cost Consultants
Mr D Harris	Quantity Surveyor, Department of Transport and Construction
Mr R G Hornby	Chief Quantity Surveyor, Department of Works
Mr E J Liddell	Queensland Manager, Cameron & Middleton Australia Pty Ltd
Co-opted Member:	
Mr B Woolnough	Director, Department of Works, Brisbane

GRADUATE DIPLOMA IN INDUSTRIAL DESIGN

Internal Members:	
Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Ms V Popovic	Senior Lecturer in Industrial Design, QUT
External Members:	
Mr D W Sanderson	Principal, D. W. Sanderson and Associates, Brisbane
Mr R C Dawes	Principal, Robert Dawes and Associates, Brisbane
Mr W R Low	Mechanical Engineer, Department of Commercial and Industrial Development, Brisbane
Mr C Nielsen	Managing Director, Nielsen Design Associates Pty Ltd, Sydney, and Principal Lecturer, Sydney College of the Arts

GRADUATE DIPLOMA IN LANDSCAPE ARCHITECTURE

Internal Members:	
Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr G Williams	Course Co-ordinator, Graduate Diploma in Landscape Architecture, QUT
External Members:	
Mr M Bunzli	Supervising Architect, Architectural Services Group, State Works Department
Mr F Thompson	Manager, Building Design Division, Qld Housing Commission
Mrs J M Conrad	Conrad & Gargett Pty Ltd, Architects and Landscape Architects
Mr K Taylor	Principal Lecturer in Landscape Design, School of Environmental Design, Canberra College of Advance Education
Co-opted Member:	
Mr P Heywood	Head, Department of Planning and Landscape Architecture, QUT

GRADUATE DIPLOMA IN URBAN AND REGIONAL PLANNING

Internal Members:	
Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Dr B J Hudson	Course Co-ordinator, Graduate Diploma in Urban and Regional Planning, QUT
External Members:	
Mr J Colman	Principal Planner, Cameron McNamara Pty Ltd
Mr J L T Butler	Strategic Planner, Brisbane City Council
Mr T Haupt	Chief Town Planning Officer, Department of Local Government
Mr P D Day	Senior Lecturer, Department of Regional and Town Planning, University of Queensland
Co-opted Member:	
Mr P R Heywood	Head, Department of Planning and Landscape Architecture, QUT

BACHELOR OF ARCHITECTURE

Internal Members:

Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Dr B P Lim	Acting Head, School of Architecture and Industrial Design, QUT

External Members:

Dr B S Maitland	Head, School of Architecture, University of Newcastle, New South Wales
Mr B M Woolnaugh	Chairman, Board of Architects, Queensland
Mr G M Callers	Architect and Planning Consultant, Design Network Australia (Brisbane) Pty Limited
Mr R B Henderson	Associate Director, Conrad and Gargett Pty Limited
Mr D K Wilde	Goodsir Baker and Wilde Pty Ltd

BACHELOR OF APPLIED SCIENCE - CONSTRUCTION MANAGEMENT

Internal Members:

Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr G B Thomas	Acting Head, School of Construction Management, QUT

External Members

Dr V Ireland	Head, School of Building Studies, New South Wales Institute of Technology
Mr G J May	Architect, Department of Works, Queensland
Mr A K Webster	Project Manager, Thiess Watkins Group
Mr J C Hutchinson	Managing Director, J Hutchinson Pty Ltd, Builders and Contractors
Mr B J Williamson	Director, Division of Building, D.O.W. Queensland
Mr G S Effle	Construction Manager, Peter Fardoulys Constructions

BACHELOR OF APPLIED SCIENCE (BUILT ENVIRONMENT)

Internal Members:

Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr J Donnelly	Course Co-ordinator, Bachelor of Applied Science Built Environment, QUT
Dr B Lim	Acting Head, School of Architecture and Industrial Design

External Members:

Prof B Saini	Professor of Architecture, University of Queensland
Prof R N Johnson	Professor of Architecture, Dean Faculty of Architecture, University of Sydney
Mr G N Bell	Partner, Ainsley Bell and Murchison, Architects
Mr R C Dawes	Principal, robert Dawes and Associates, Brisbane
Mr D W Beitz	Manager, Peddle Sharp Interiors, Associate, Peddle Sharp and Harvey
Mr L P Williams	Superintending Landscape Architect, Brisbane City Council
Dr G T McDonald	Senior Lecturer, School of Australian Environmental Studies, Griffith University
Mr B T Veal	Consultant Architect and Planner, Veal and Crawshaw, Architects and Town Planners
Mr G M Colless	Principal, G M Colless and Associates Pty Ltd, Architects and Town Planners

BACHELOR OF APPLIED SCIENCE - QUANTITY SURVEYING

Internal Members:

Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr G B Thomas	Acting Head, School of Construction Management, QUT

External Members:

Dr V Ireland	Head, School of Building Studies, New South Wales Institute of Technology
Mr B G Williamson	Director, Division of Building, D.O.W. Queensland
Mr W H George	Partner, Rider Hunt & Partners, Quantity Surveyors and Construction Cost Consultants
Mr D Harris	Quantity Surveyor, Department of Housing and Construction
Mr E J Liddell	Queensland Manager, Cameron & Middleton Australia Pty Ltd, Quantity Surveyors
Mr R G Hornby	Chief Quantity Surveyor, Department of Works

ASSOCIATE DIPLOMA BUILT ENVIRONMENT TECHNICIAN

Internal Members:

Mr T F Heath (Chairperson)	Dean, Faculty of the Built Environment, QUT
Mr P Lambert	Course Co-ordinator, Associate Diploma Built Environment Technician

External Members:

Prof B Saini	Professor of Architecture, University of Queensland
Prof R N Johnson	Professor of Architecture, University of Sydney
Mr G N Bell	Partner, Ainsley Bell and Murchison, Architects
Mr R C Dawes	Principal, Robert Dawes and Associates, Brisbane
Mr D W Beitz	Manager, Peddle Sharp Interiors, Associate, Peddle Sharp and Harvey
Mr L P Williams	Superintending Landscape Architect, Brisbane City Council

Dr G T McDonald	Senior Lecturer, School of Australian Environmental Studies, Griffith University
Mr B T Veal	Consultant Architect and Planner, Veal and Crawshaw, Architects and Town Planners
Mr G M Colless	Principal, G M Colless and Associates Pty Ltd, Architects and Town Planners

Staff

5

STAFF - FACULTY OF THE BUILT ENVIRONMENT

Dean of Faculty:	T F W M Heath MArch, MBldgSc(Syd), LFRAIA, ADIA
Faculty Secretary:	S Head
Faculty Administration Officer:	B A Batley BA(Qld)
Clerk:	J L Doolan
Support Staff:	B Elmes (Senior Demonstrator) D Burgess (Demonstrator) D Uhlmann (Demonstrator) F Ten Kate (Resource Centre Supervisor)

SCHOOL OF ARCHITECTURE AND INDUSTRIAL DESIGN

Head of School:	(Vacant)
Principal Lecturer:	B P Lim, BArch, DipTCP, PhD(Syd)
School Secretary:	A Morel
Senior Lecturers:	S Arden, BArch(Hons)(NSWIT), DipEd(SydTC), ADIA, ARAIA J J Donnelly, BArch(Qld), FRAIA, DipBldgSci(Syd), G A Holden, DipArch, MA(Urban Design)(Manch), FRAIA, RIBA. D A Nutter, BArch(Hons), DipRTP(Qld), LFRAIA V Popovic, GradEngArch(Belgrade), MFA(ID)(Ill), ADIA, ESA, SPID-YU(Yugoslavia) J C Woolley, BArch(Natal), MArch(Witw), MIA(SA)
Lecturers:	J Greste, BArch(Hons)(NSW), MA (Urban Design) (Oxf) ARAIA D Hardy, DipAD(Hons)(Newcastle), BA(Hons)(Lond), FDIA, ASIAD. J E Hutchinson, BArch, MURP(Qld), FRAIA P A Lambert, BArch(Qld), ARAIA J R Stewart, BArch(Qld), DipTown&CountPlan, CHS Ekistics(Athens), MArch(Berkeley), ARAIA, MRAPI

Lecturers cont'd: K Stewart, DipArch(K'ton), GradDipIndDes, ARAIA, RIBA, ADIA

Senior Instructor:

SCHOOL OF CONSTRUCTION MANAGEMENT

Head of School: (Vacant)

Principal Lecturer: G B Thomas MS(UrbanPlanning)(Ill), ARICS, MAIB

School Secretary: D Corney

Senior Lecturers: J A Leicester, HND(Const Man) (Brixton), MSc(Const Man)(Lond), BEd, Dip Teach(Adelaide), MAIB
D Campbell-Stewart, DipQS(Qld), FAIQS

Lecturers: L Coyte, DipBuild
J Durack, BEng(Hons), MIEAust.

DEPARTMENT OF PLANNING AND LANDSCAPE ARCHITECTURE

Head of Department: P R Heywood BA(Hons)(Oxon), DipTP(Manch), MRTPI, MRAPI

Departmental Secretary: P Chambers

Senior Lecturers: C Bull, AAILA, AAIH, M.L. Arch.(Melb)
B J Hudson, PhD(HK), MCD, BA(Hons)(Liverpool), MRTPI
J R Minnery, PhD(Qld), BSc(Hons)(Cantuar), DipTP(Witw), PCE(Lond), MRTPI, MRAPI
G Williams, BArch(Qld), DipLD(Newcastle-Upon-Tyne), ARAIA, FAILA, MRAIPR, MAITD, JP

Lecturers: J Brown, BA(Hons), MRegSc(Qld), GradDipLibrarianship(Riverina CAE)
D Low-Choy, MBE, BA(Qld), GradDipUrb&RegPlan, MAAG, FAGS, MASAG, SMRAPI, SMAIC
M A Ryan, BArch(Qld), GradDipLandArch, FRAIA, AAILA
S Smith, BSc(Hons)(Qld)
G Thomas, BArch, GradDipLandArch, FRAIA, AAILA

Courses Offered

6

COURSES OFFERED BY EACH DEPARTMENT

FACULTY OF THE BUILT ENVIRONMENT

ASN184	Master of Applied Science by Research and Thesis
BTN233	Master of Applied Science Built Environment
BTJ227*	Bachelor of Applied Science Built Environment
BTL178	Associate Diploma Built Environment Technician

SCHOOL OF ARCHITECTURE AND INDUSTRIAL DESIGN

ARM142	Graduate Diploma in Industrial Design
ARJ192	Bachelor of Architecture

SCHOOL OF CONSTRUCTION MANAGEMENT

BGM228	Graduate Diploma in Building Project Management
BGJ201	Bachelor of Applied Science Construction Management
BGJ200	Bachelor of Applied Science Quantity Surveying

DEPARTMENT OF PLANNING AND LANDSCAPE ARCHITECTURE

LPM140	Graduate Diploma in Urban and Regional Planning
LPM141	Graduate Diploma in Landscape Architecture

---

* Course strand selected by student:

BTJ227	Strand ARC	Architecture
	Strand IND	Industrial Design
	Strand LAP	Landscape Architecture/Urban and Regional Planning
	Strand DES	Interior Design

MASTER OF APPLIED SCIENCE BY RESEARCH AND THESIS

ASN184 MASTER OF APPLIED SCIENCE BY RESEARCH AND THESIS

The program is administered by a Graduate Studies Standing Committee, hereafter referred to as the "Committee".

Unless the context otherwise indicates or requires, the words 'academic board' and 'faculty' shall refer to the faculty in which the student registers.

OBJECTIVES:

(a) to provide postgraduate educational opportunities in specialised fields of applied science by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge.

(b) to provide further education in research methods.

(c) to enable graduates employed in industry to undertake further education by research and thesis.

(d) to enable industrial organisations and other external agencies to sponsor a student research program under the control and supervision of the faculty.

(e) to further the relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

OUTLINE OF PROGRAM:

(a) Candidates undertaking a Master of Applied Science by Research and Thesis will undertake a project on a topic approved by the Committee.

(b) All projects should be sponsored either by outside agencies such as industry, Government authorities, or professional organisations, or by the University.

(c) The project, including submission of the thesis, should require approximately two years of full-time work or its equivalent.

(d) The program should give the candidate the opportunity to develop and demonstrate a level of scientific competency which is significantly higher than that expected of a first degree graduate. The required competency would normally include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist area.

RULES:

1. Application

1.1 Applications shall be accepted subject to the availability of facilities and supervision.

1.2 Applications may be lodged with the Registrar at any time.

1.3 The academic qualifications for admission to the program leading to Master of Applied Science by Research and Thesis, shall be -

(a) possession of a bachelor's degree in applied science from the Queensland University of Technology, or

(b) possession of an equivalent qualification, or

(c) submission of any other evidence of qualifications as will satisfy the Committee that the applicant possesses the capacity to pursue the course of study.

1.4 Additional requirements for admission to a particular program may be laid down by the Committee.

1.5 An applicant shall seek admission as -

(a) a full-time student who will carry out research on a full-time basis in a school/department of the faculty or in the place of employment or in a sponsoring institution, or

(b) a part-time student who will normally be employed in some other capacity during the day and carry out research on a part-time basis in a school/department of the faculty or in the place of employment or a sponsoring institution.

1.6 Students may be internal or external.

An external student is one whose program of work is based at his/her place of employment or sponsoring institution. In the case of an external student the Committee shall appoint an associate supervisor from the student's place of employment or sponsoring institution.

2. Registration

2.1 An applicant shall be registered initially as

(a) a graduate student (provisional), or

(b) a graduate student.

A graduate student (provisional) becomes a graduate student when registration is confirmed (2.5).

2.2 At the time of consideration of an application, the Committee shall have before it

(a) full details of the applicant's tertiary qualifications or other submissions, as in 1.3, and

(b) a synopsis of the research proposed by the applicant.

2.3 The Committee shall not admit an applicant unless it has received

(a) in the case of the student whose program will be carried out in the University:

a statement from the head of school/department in which the study is proposed that, in his/her opinion, the applicant is a fit person to undertake a research program leading to the Master's degree, that the program is supported, and that the school/department is willing to undertake the responsibility of supervising the applicant's work.

(b) in the case of a student whose program will be carried out in the place of employment or in a sponsoring institution:

a statement from the employer or director of the sponsoring institution that the applicant will be provided with facilities to undertake the research project and that he/she is willing to accept responsibility for supervising the applicant's work, and

a statement from the head of school/department in which the study is proposed that, in his/her opinion, the applicant is a fit person to undertake a research program leading to the Master's degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school/department is willing to accept the responsibility of supervising the work.

2.4 In considering an applicant for registration the Committee shall, in addition to assessing the applicant's suitability, assess the proposed program and its relevance to the aims and objectives of the University.

2.5 An applicant shall receive confirmed registration as a graduate student when he/she

(a) has satisfied the requirements for admission and has achieved by work and study a standard recognised by the Committee, or

has been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the Committee,

(b) has satisfied the Committee that he/she is a fit person to undertake the program,

(c) has satisfied the Committee that he/she can devote sufficient time to the research and study.

2.6 A student whose registration in the program has been cancelled and who subsequently wishes to re-enter the program to undertake a research project which is the same or essentially the same as the previous project may be re-admitted to the program under such conditions as the Committee may prescribe.

3. Duration of the Program

3.1 A graduate student shall be eligible for admission to the award of a Master's Degree by Research and Thesis if he/she

(a) has completed the approved program under the supervision prescribed by the Committee, and

(b) has submitted and the Committee has accepted a thesis prepared under the supervision of the supervisor, and

(c) has completed any other work prescribed by the Committee.

3.2 Minimum Time

(a) A graduate student (provisional) shall not be eligible for confirmation of registration as a graduate student:

in the case of a full-time student until a period of at least six months has elapsed from initial registration, or

in the case of a part-time student until a period of at least one year has elapsed from initial registration.

(b) A graduate student shall not normally be eligible for the award of the degree:

in the case of a full-time student until a period of at least two years has elapsed from the time of initial registration, or

in the case of a part-time student until a period of at least four years has elapsed from the time of initial registration.

(c) A student able to demonstrate exceptional circumstances relating to his/her academic or professional background may apply to the Committee for a reduction in the minimum time requirement. No student shall be eligible for the award of the degree until a period of at least one year has elapsed from the time of initial registration.

3.3 Maximum Time

A graduate student shall present the thesis for examination

(a) in the case of a full-time student, not later than two years from the date of confirmed registration, or

(b) in the case of a part-time student, not later than four years from the date of confirmed registration

unless special permission for an extension of time has been granted by the Committee.

4. Supervision

4.1 For each student the Committee shall appoint one or more supervisors with appropriate experience provided that, where more than one supervisor is appointed, one shall be nominated as the principal supervisor and others as associate supervisors.

4.2 In the case of an internal student, the principal supervisor normally shall be from the academic staff of the school/department where the student carries out the work.

4.3 In the case of an external student, the principal supervisor normally shall be from the academic staff of the school/department supporting the work and at least one associate supervisor shall be from the sponsoring organisation.

4.4 At the end of each six month period

(a) a student shall submit a report on the work undertaken to the principal supervisor, and

(b) the principal supervisor shall submit a report to the Committee on the student's work and this report shall be seen by the student before submission to the Committee.

4.5 A student may be required by the Committee to undertake an appropriate course of study concurrently with the research project.

4.6 A student shall be required to participate in and present seminars as considered appropriate by the principal supervisor. The student shall be notified of minimum attendance requirements at the time of acceptance of enrolment.

5. Thesis

5.1 Not later than six months after confirmed registration the student shall submit the title of the thesis for approval by the Committee. After approval has been granted, no change shall be made except with the permission of the Committee.

5.2 The student shall give two months' notice of intention to submit the thesis. Such notice shall be accompanied by the appropriate fee, if any.

5.3 The thesis shall comply with the following requirements:

(a) a significant portion of the work described must have been carried out subsequent to initial registration for the Master's degree;

(b) it must describe a program of work carried out by the candidate, and must involve either an original contribution to knowledge or an original application of existing knowledge;

(c) it must be written in English or in a language approved by the Committee and must reach a satisfactory standard of literary presentation;

(d) it shall be the candidate's own account of the work. Where work is carried out conjointly with other persons, the Committee shall be advised of the extent of the candidate's contribution to the joint work;

(e) the thesis shall not contain as its main content any work or material which the student has previously submitted for another degree or similar award;

(f) supporting documents, such as published papers, may be submitted with the thesis if they have a bearing on the subject of the thesis; and

(g) the thesis shall contain an abstract of not more than 300 words.

5.4 In form of presentation, availability and copyright, the thesis shall comply with the provisions of the document Requirements for Presenting Theses as approved by Academic Assembly.

5.5 Examination of Thesis

(a) The Committee shall appoint at least two examiners of whom at least one shall be from outside the University.

(b) The candidate may be required to make an oral defence of the thesis.

(c) On receipt of satisfactory reports from the examiners, the Committee shall recommend to the academic board that the degree be awarded.

When the provisions of 5.4 have been fulfilled, the academic board shall recommend to Council that the student be awarded the degree.

(d) If, on the basis of the examiners' reports, the Committee does not recommend that the degree be awarded then the Committee shall

permit the student to resubmit the thesis within one year for re-examination, or

cancel the student's registration.

MASTER OF APPLIED SCIENCE BUILT ENVIRONMENT

BTN233 MASTER OF APPLIED SCIENCE - BUILT ENVIRONMENT

Urban Design

The Master of Applied Science is a postgraduate coursework program offered in the Faculty of Built Environment. The program is offered initially in the field of Urban Design, and is administered by the Graduate Studies Standing Committee of the Built Environment Academic Board.

The Urban Design strand of the Master of Applied Science is planned for students with appropriate professional education and experience. It is intended to provide graduates with appropriate knowledge and skill for middle to senior level positions in physical design and planning areas of the public and private sectors.

The course provides the educational opportunity for advanced study following graduation and a period of practical experience. Students of the course will have the means by which they may engage in further intellectual and practical personal development.

The structured coursework aims to provide a high level of conceptual understanding of urban design matters. Students will also undertake individual research into an approved area of speciality.

The course will build on existing professional skills and practical experience to produce urban designers capable of improving the quality of physical design for local areas through both practice and applied research.

Urban Design Strand

The Urban Design strand of the course aims to provide graduates with knowledge and skills in the practice of urban design through the study of:

(i) The context and theories of urban design;
(ii) Urban design issues and concentrations;
(iii) Techniques and processes of urban design;
(iv) Research methods in urban design.

CORE STUDY AREAS

The following schedule comprises the component study areas:

Unit of Study 1 - Urban Design Studio

BTN101 Urban Design Analysis
BTN102 Urban Design Context
BTN103 Urban Design Conjecture
BTN104 Urban Design Guidelines
BTN105 Urban Design Field Studies

Unit of Study 2 - Urban Design, History, Theory and Criticism

BTN201 Urban Design History of Urban Systems
BTN202 The Urban Environment and Behaviour 1
BTN203 The Urban Environment and Behaviour 2
BTN204 Urban Design Theory and Criticism

Unit of Study 3 - Urban Design, Issues and Concentrations

BTN301 Conservation and Reuse in Urban Design
BTN302 The Urban Landscape
BTN303 Transport and Movement Systems in Urban Design
BTN304 Urban Climate and Services
BTN305 Tourism and Recreation in Urban Design

Unit of Study 4 - Urban Design Practice

BTN401 Urban Design Computer Applications
BTN402 Law and Legislation in Urban Design
BTN403 Urban Design Guides and Development Control
BTN404 Urban Design Feasibilities and Management

Unit of Study 5 - Prescriptive Subjects, Research Electives and Research Dissertation

(i) Prescriptive Subjects for Urban Design (3 hrs per week)

To ensure a more effective balance of knowledge and skills in students from a variety of backgrounds, students will be required to take one or more existing subjects offered within Graduate Diploma, other Faculty courses, or specified courses elsewhere.

Typically, a student would work 3 hours per week taking topics from the following:

The Political Context
Economics of Town Planning
Urban Structure
Introduction to Computers in Planning
Graphics & Professional Presentation
Natural Environment Studies
History of Architecture
European Cultural History

Topics will be prescribed for each student by the Course Co-ordinator on the basis of the students' qualifications and experience. For example, planners may undertake subjects in architectural history, environmental studies or graphics, landscape architects in architectural history, economics or political systems, and architects in environmental studies, economics or political systems. It is expected that many students will be required to undertake 'Introduction to Computers in Planning', a Graduate Diploma in Urban and Regional Planning subject.

(ii) Research Electives 1 for Urban Design (2 hrs)
Research Electives 2 for Urban Design (4 hrs)

These subjects are intended to give guidance on research techniques, to provide the opportunity for students to research areas of urban design of personal choice, and to provide a firm basis for the final Dissertation.

Study required for these subjects may be undertaken within QUT or other academic institution or may be undertaken as individual research under direction of a tutor, all subject to the approval of the Course Co-ordinator.

Research Electives 1 will also contain formal input on research and presentation techniques. The electives undertaken should be selected to support the topic of the Research Dissertation typically from the following within the Faculty of the Built Environment.

Planning in Developing Countries
Computer Applications
Social Planning
Urban Land Development
Landscape Design
History of Landscape Design
Principles of Landscape Design
Building Economics

(iii) Research Dissertation (7 hrs)

Each student will be required, with tutorial guidance, to prepare a dissertation on an individually selected topic approved by the Course Co-ordinator. The student will be required to show evidence of proficiency in research and application of research in the development of design ideas.

This may be achieved through an emphasis on a design project or through a written process.

The balance between theory and design application in the dissertation may vary. However, a dissertation which focuses on a specific design project must be supported by a theoretical analysis sufficient to define the problem and to explain how the design proposed satisfies the conditions for a solution. Conversely a dissertation which focuses on the development of a theory must sufficiently illustrate the practical implications of the theory for the relevant classes of design task.

The dissertation will be supported by work undertaken as Research Electives.

Unless specifically approved otherwise by the Course Co-ordinator, this subject shall be undertaken as a final semester subject.

COURSE RULES

1. The Graduate Studies Standing Committee will recommend to the Built Environment Academic Board the eligibility or otherwise of all students enrolling for the degree.

(a) Normal Entry

Applicants for admission to candidature for a degree of Master:

(i) shall hold a degree or post-graduate qualification leading to eligibility for corporate membership of the professional institutes in Architecture or Landscape Architecture or Planning; OR

(ii) shall hold qualifications approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Co-ordinator as equivalent to the requirements set out in paragraph (i) above; AND

(iii) shall normally have at least 2 years of appropriate work experience.

The basic qualification and work experience will not be the sole requirement for admission. The Graduate Studies Standing Committee may also take into account an applicant's performance as an undergraduate and a demonstrated commitment to urban design.

(b) 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 attainments and candidature is approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Co-ordinator.

A provisional registrant will be required to undertake a qualifying programme which may include course subjects, and/or such other work as the Built Environment Graduate Studies Standing Committee determines before admission is confirmed. Provisional registration in the course will apply for a maximum period of twelve months for both full time and part time students.

A provisional qualifying programme may typically include the following:-

Master of Applied Science Built Environment Subject

BTN601	Prescriptive Subject for Urban Design	(3 hrs)

Graduate Diploma in Landscape Architecture Subjects

LPP021	Basic Design	(2 hrs)
LPP022	Introduction to Physical Design	(2½ hrs)
LPP323	Urban Land Development	(1 hr)

Graduate Diploma in Urban & Regional Planning Subjects

LPP311	History & Evolution of Town Planning	(1 hr)
LPP315	Introduction to Planning Processes	(2 hrs)
LPP321	Introduction to Theories of Planning	(1 hr)
LPP325	Urban Design	(2 hrs)
LPP341	Urban Governance	(1 hr)

(c) Advanced Standing

Students, upon enrolment in a course, may apply for exemptions from specified subjects for study completed at QUT or elsewhere. The student must have completed a programme considered as being an adequate substitute for a subject or subjects prescribed in the relevant course rules.

Exemptions may be granted up to a limit such that the student must complete satisfactorily within the University the equivalent of at least two semesters of full time study, or the equivalent part time.

Advanced standing status will be determined by the Built Environment Academic Board on the recommendation of the Built Environment Graduate Studies Standing Committee.

2. Registered students may enrol as part-time or full-time students.

Part-time students are usually in employment and normally attend classes during the evenings: however, they may elect or be required to attend some day classes. Full-time students may elect or be required to attend classes both during the day and in the evening.

3. A student enrolled in the Master of Built Environment course will normally progress in the sequence indicated in the normal course programme. Timetables are arranged on the basis of the normal progression.

4. To be credited with a semester subject, a student must obtain a pass in the assessment programme and satisfy such assignment requirements as are approved by the Built Environment Academic Board.

5. Except in exceptional circumstances and with the approval of the Course Co-ordinator, a student in the Master of Built Environment Course may not enrol for more than the subjects and course hours indicated in his or her normal semester course program except as in Rule 7 below.

6. Students retain credit for all subjects passed in the semester in which they are enrolled.

7. A student who fails one or more course work subjects in a semester may re-enrol and repeat the subjects failed, and may enrol for other subjects of the normal semester programme, subject to course rules, provided the time-table permits enrolment in the subjects desired.

8. Except with the approval of the Course Co-ordinator, students may not enrol for any subject in their course of study enless they have obtained credit for all subjects prescribed as pre-requisite subjects in the Schedule attached to these Rules.

9. For a registered student enrolled in the part-time Master of Applied Science Built Environment course, the subjects and other work of the three years part-time study is as follows:

BTN233 Master of Applied Science Built Environment Part-time

Course Structure:-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BTN101	Urban Design Analysis Studio	9	3
BTN201	Urban Design History of Urban Systems	3	1
BTN202	The Urban Design Environment and Behaviour 1	3	1
BTN601	Prescriptive Subject for Urban Design	9	3
		24	
Semester 2 - Spring			
BTN102	Urban Design Context Studio	9	3
BTN203	Urban Environment and Behaviour 2	3	1
BTN301	Conservation and Reuse in Urban Design	3	1
BTN302	The Urban Landscape	3	1
BTN401	Urban Design Computer Applications	6	2
		24	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 3 - Autumn			
BTN103	Urban Design Conjecture Studio	9	3
BTN303	Transport and Movement Systems in Urban Design	3	1
BTN304	Urban Climate and Services	3	1
BTN402	Law and Legislation in Urban Design	3	1
BTN204	Urban Design Theory and Criticism	6	2
		24	
Semester 4 - Spring			
BTN104	Urban Design Guidelines Studio	9	3
BTN305	Tourism and Recreation in Urban Design	3	1
BTN403	Urban Design Guidelines and Development Control	3	1
BTN404	Urban Design Feasibilities and Management	3	1
BTN701	Urban Design Research Electives 1	6	2
		24	
Semester 5 - Autumn			
BTN105	Urban Design Field Studies Studio	9	3
BTN702	Urban Design Research Electives 2	15	3
		24	
Semester 6 - Spring			
BTN501	Urban Design Research Dissertation Elective	24	7

11. For a registered student enrolled in the full-time Master of Applied Science Built Environment course, the subjects and other work of the one and a half years full-time study is as follows:

BTN233 Master of Applied Science Built Environment
Full-time

Course Structure:-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BTN101	Urban Design Analysis Studio	9	3
BTN103	Urban Design Conjecture Studio	9	3
BTN201	Urban Design History of Urban Systems	3	1
BTN202	The Urban Environment and Behaviour 1	3	1
BTN303	The Transport and Movement Systems in Urban Design	3	1
BTN304	Urban Climate and Services	3	1
BTN402	Law and Legislation in Urban Design	3	1
BTN601	Prescriptive Subject for Urban Design	9	3
BTN701	Urban Design Research Electives 1	6	2
		48	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
BTN102	Urban Design Context Studio	9	3
BTN104	Urban Design Guidelines Studio	9	3
BTN203	The Urban Environment and Behaviour 2	3	1
BTN305	Tourism and Recreation in Urban Design	3	1
BTN301	Conservation and Reuse in Urban Design	3	1
BTN302	The Urban Landscape	3	1
BTN401	Urban Design Computer Applications	6	2
BTN403	Urban Design Guides and Development Control	3	1
BTN404	Urban Design Feasibility and Management	3	1
BTN702	Urban Design Research Electives 2	15	3
		57	
Semester 3 - Autumn			
BTN105	Urban Design Field Studies Studio	9	3
BTN204	Urban Design Theory and Criticism	6	2
BTN501	Urban Design Research Dissertation Elective	24	7
		39	

GRADUATE DIPLOMA IN ARCHITECTURE

ARM145 GRADUATE DIPLOMA IN ARCHITECTURE

This course is offered to continuing students only. Applicants wishing to obtain a professional qualification in Architecture should refer to the section on Bachelor of Architecture.

COURSE RULES

1. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

2. Students gain credits for passed units and are required to repeat failed units only.

3. Students who pass all units in a semester as set out in Rule 10 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.

4. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

   (i) they have successfully completed all pre-requisite units and, where applicable, have also enrolled in the co-requisite units; and
   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 5 and 6; and
   (iii) the established timetable permits the selected units to be studied concurrently.

5. Except with the approval of the Head of Department, the total hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rule 10 from which the majority of units have been selected.

6. Except with the approval of the Head of Department, the total hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

7. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a with-held result in accordance with the provision of the General Examination Rules.

8. Pre-requisite and co-requisite subjects are shown in a Schedule attached to these rules.

9. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips.

   Except with the approval of the Head of Department, failure to attend these field trips in the relevant subjects will adversely affect assessment.

10. For a registered student in the Graduate Diploma in Architecture the subjects and other work of the second and third years part-time study are as follows -

ARM145 Graduate Diploma in Architecture Course Structure

SECOND YEAR		EFTSU Credit	Approx Formal Hrs/wk
ARP521	Design II	18	6*
OR			
ARP522	Elective Study I		
ARP523	Management and Law I	4	2
ARP524	Building Economics	4	2
		26	10
THIRD YEAR			
ARP531	Elective Study II (Thesis)	18	5*
ARP532	Management and Law II	8	3
		26	8

* includes half-day release.

GRADUATE DIPLOMA IN BUILDING
PROJECT MANAGEMENT

BGM228 GRADUATE DIPLOMA IN BUILDING PROJECT MANAGEMENT

The Graduate Diploma in Building Project Management is designed to provide a conceptual overview of the tools and methodologies and basic knowledge needed by each individual participant as a spring board to best develop his/her own inherent qualities towards a successful career as a professional Project Manager.

The course provides graduates with a sound appreciation of the overall management process, techniques and methodologies involved in a multidisciplined environment leading to the successful management of a project from its inception to completion.

All participants in the course will already be professionals in their own right which will provide peer support and a cross-pollination of knowledge. The high level of input by practising industry professionals will in part ensure state of the art knowledge, relevance and provide the required breadth of knowledge.

There is a great demand for professionals skilled in project management as there is a current trend towards project management contracts in both the private and public sectors. A graduate from this course could expect to be employed in a senior position in a multidisciplined working environment with, say, a private enterprise development company, Government works or construction departments or as an independent consultant in Project Management.

ENTRY REQUIREMENTS

Most candidates will be professionals who wish to pursue further studies related to their original qualifications.

An applicant must:

(a) be the holder of a degree or diploma from a recognised University, College of Advanced Education or approved equivalent tertiary institution; or

have gained professional recognition by an equivalent course of study or examination; e.g. A Member of the Australian Institute of Quantity Surveyors.

(b) possess a sound knowledge of building technology and it is expected that they would normally be graduates in building, architecture, engineering or quantity surveying, or related development disciplines, and shall have a minimum of two years postgraduate relevant experience.

Before taking the course proper, each student may be required to enrol for introductory or bridging subjects as required by the Course Co-ordinator.

COURSE RULES

1. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

2. Students gain credits for passed units and are required to repeat failed units only.

3. Students who pass all units in a semester as set out in Rule 10 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.

4. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

   (i) they have successfully completed all pre-requisite units; and, where applicable, have also enrolled in the co-requisite units.
   (ii) the established timetable permits the selected units to be studied concurrently.

   In certain circumstances, students who fail one unit which is pre-requisite or co-requisite for a second unit may nevertheless be deemed eligible to enrol in the second unit, such eligibility being determined by the Course Co-ordinator.

5. Except with the approval of the Course Co-ordinator, the total hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rule 10 from which the majority of units have been selected.

6. Except with the approval of the Course Co-ordinator, the total hours associated with units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

7. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

8. If a student before registering for the course has at this University or elsewhere passed in a subject which is equivalent to a subject prescribed below then he MAY SUBSTITUTE and enrol, with the approval of the Course Co-ordinator, for other relevant subjects offered at the University.

9. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips.

   Except with the approval of the Course Co-ordinator failure to attend these field trips will adversely effect assessment in the relevant subjects.

10. For a registered student in the Graduate Diploma in Building Project Management, the subjects and other work of the two year part-time study are as follows:

Course Structure:-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BCP411*	Project Management and Entrepreneurial Process	6	2
BCP421	Construction and Property Management	6	2
BCP415	Project Economics and Cost Planning	6	2
BCP417	Design Management	6	2
		24	
Semester 2 - Spring			
BCP411*	Project Management and Entrepreneurial Process	6	2
BCP414	Project Planning Techniques	6	2
MNP282	Managerial Psychology	6	2
BCP418	Legal Implications and issues in Project Management	6	2
		24	
Semester 3 - Autumn			
BCP423*	Building Contract Law	2	1
BCP416	Project Cost Control and Financial Administration	6	2
BCP425*	Graduate Project	12	3
BCP427	Case Studies	6	2
		26	
Semester 4 - Spring			
BCP428	Feasibility Study	6	2
BCP423*	Building Contract Law	2	1
BCP425*	Graduate Project	12	5
		20	

* full year subject

GRADUATE DIPLOMA IN INDUSTRIAL DESIGN

ARM142 GRADUATE DIPLOMA IN INDUSTRIAL DESIGN

The course in Industrial Design is seen as a problem identification and problem solving experience in which innovation in design is brought about by an understanding of problems in relation to man, society, the environment and the manufacturing industries, commensurate with technological development.

It is intended to give the student a multivarious exposure to the broad background of three dimensional design but at the same time maintain a balance between industry and community needs. In this respect project work may consist of the research and design of industrialised bathrooms, domestic appliances, capital equipment, or aids for the physically and mentally handicapped.

It is also intended to train students to a professional standard of Industrial Design recognition.

ELIGIBILITY

An applicant must -

(a) be the holder of a degree or diploma from a recognised University, College of Advanced Education, or approved equivalent tertiary institution; or

(b) have gained professional recognition by an equivalent course of study or examination. Where an equivalent course of study or examination cannot be readily established an applicant, at the discretion of the Dean of the Faculty, may be permitted to undertake a qualifying examination, the satisfactory completion of which will entitle him to the status of a graduate or diplomate for the purposes of admission.

Before taking the course proper, each student must enrol for and complete introductory or bridging subjects as required by the Dean of the Faculty.

COURSE RULES

1. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

2. Students gain credits for passed units and are required to repeat failed units only.

3. Students who pass all units in a semester as set out in Rules 11 and 12 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.

4. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

(i) they have successfully completed all pre-requisite units and, where applicable, have also enrolled in the co-requisite units; and

(ii) the hours associated with the selection programme fall between the maximum and minimum hours defined in Rules 5 and 6; and

(iii) the established timetable permits the selected units to be studied concurrently.

5. Except with the approval of the Head of Department, the total hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rules 11 and 12 from which the majority of units have been selected.

6. Except with the approval of the Head of Department, the total hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

7. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

8. Pre-requisite and co-requisite subjects are shown in a Schedule attached to these rules.

9. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. (See Section 2).

10. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips in the relevant subjects will adversely effect assessment.

11. For a registered student in the Graduate Diploma in Industrial Design, the subjects and other work of the two years part-time study are as follows -

ARM142 Graduate Diploma in Industrial Design

Course Structure:-

PART-TIME		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
ARP672*	Industrial Design I	18	6
ARP613	Advanced Ergonomics I	2	1
ARP671	History, Theory and Criticism of Industrial Design	2	1
ARP676	Advanced CAD for Industrial Designers I	4	2
		26	10

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
ARP673*	Industrial Design II	18	6
ARP623	Advanced Ergonomics 2	2	1
ARP677	Advanced CAD for Industrial Designers II	4	2
		24	9
Semester 3 - Autumn			
ARP674*	Industrial Design Research 1	24	8
ARP642	Case Studies	4	2
		28	10
Semester 4 - Spring			
ARP675*	Industrial Design Research 2	24	8
ARP652	Design Management and Decision Theory	2	1
ARP653	Professional Practice	2	1
		28	10

12. For a registered student in the Graduate Diploma in Industrial Design, the subjects and other work of the one year full-time study programme are as follows:

ARM142 Graduate Diploma in Industrial Design

Course Structure:-

FULL-TIME

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
ARP672	Industrial Design I	18	6
ARP613	Advanced Ergonomics I	2	1
ARP671	History, Theory and Criticism of Industrial Design	2	1
ARP676	Advanced CAD for Industrial Designers I	4	2
ARP674	Industrial Design Research 1	24	8
ARP642	Case Studies	4	2
		54	20
Semester 2 - Spring			
ARP673	Industrial Design II	18	6
ARP623	Advanced Ergonomics 2	2	1
ARP677	Advanced CAD for Industrial Designers II	4	2
ARP675	Industrial Design Research 2	24	8
ARP652	Design Management and Decision Theory	2	1
ARP653	Professional Practice	2	1
		52	19

* Part day release

GRADUATE DIPLOMA IN LANDSCAPE ARCHITECTURE

LPM141 GRADUATE DIPLOMA IN LANDSCAPE ARCHITECTURE

Landscape architecture is a design discipline concerned with the quality of the environment and its design for functional and aesthetic satisfaction. It is concerned with the ordered design of open space of all scales, and deals with the appearance, atmosphere, and suitability of environment to assure the health and welfare of humans in the environment.

This course concentrates on assessing the individual's, community's, and nature's needs and fitting them into an already functioning system. Students are educated to identify the potential of landscapes, and to develop an understanding of social and community needs, an awareness of problems and conflicts, a reasoned ordering of priorities, and considered design solutions which will take into account not only function but also conservation, aesthetic and management factors.

This is a course in which students, with differing background specialist qualifications, are encouraged to take an active part in seminar, tutorial, discussion, field, and workshop situations. Through these, students gain a working understanding of the needs of people, of society, and of the landscape itself, and a sound knowledge of design, natural sciences, and the use of materials, all tempered by a sympathetic understanding of ecological principles.

The course has a core of Design/Practice supported by five defined groups of subjects. Students may specialise in either Site Planning or Landscape Planning in final studies.

Semester 1 and 2 subjects are organised to allow students deficient in identified basic skills, techniques, and knowledge to attain them before proceeding further in the course.

The following schedule summarizes the component Study Areas:

CORE STUDY AREAS

Area of Study 1 - Landscape Practice

LPP011	Introduction to the Profession
LPP112	Landscape Practice
LPP113	Law and the Professions
LPP114	Work Experience
LPP115	Contract and Management Practice

Area of Study 2 - Landscape Design

LPP021	Basic Design
LPP022	Introduction to Physical Design
LPP123	Site Planning
LPP124	Urban Landscape Design
LPP125	Detailed Landscape Design
LPP126	Introduction to Landscape Planning
LPP127	Advanced Landscape Design
LPP128	Elective Design Study

SUPPORT STUDY AREAS

Area of Study 3 - Methods and Techniques

LPP030	Introduction to Computer Uses
LPP031	Problem Solving
LPP032	Presentation Aids and Issues
LPP133	Site Survey and Analysis
LPP134	Documentation
LPP135	Implementation
LPP136	Assessment and Evaluation
LPP137	Research Aids

Area of Study 4 - Design Communication

LPP041	Freehand Drawing
LPP042	Technical Drawing
LPP043	Professional Communication
LPP144	Applied Graphics
LPP145	Advanced Graphics

Area of Study 5 - Landscape Construction

LPP051	Basic Surveying and Levelling
LPP052	Introduction to Structures
LPP153	Materials and Uses
LPP154	Landscape Construction
LPP155	Landscape Engineering

Area of Study 6 - Natural Environment Studies

LPP061	Basic Principles
LPP162	Ecological Systems
LPP163	Plant Identification
LPP164	Horticultural Techniques
LPP165	Planting Design
LPP166	Applied Regional Ecology
LPP167	Specialised Issues

Area of Study 7 - Man-Environment Studies

LPP071	Perception
LPP073	Land Use Generation
LPP174	Human Studies
LPP175	History of Landscape Design
LPP176	Land Use Studies
LPP177	Principles of Landscape Planning
LPP179	Cultural Values and the Landscape

ELIGIBILITY

Normal Entry

An applicant must be the holder of a degree or diploma from a recognised University, College of Advanced Education, or approved equivalent tertiary institution,

OR

have gained professional recognition by examination which is equated with an academic qualification in that profession for purposes of practice and/or membership of the professional organisation.

Special Entry

An applicant who does not meet the requirements for normal entry may apply for Special Consideration in accordance with QUT rules and procedures. On the recommendation of the Dean of the Faculty and with the approval of the Admissions Committee, such applicant may be required to undertake a bridging examination and/or bridging subjects, satisfactory completion of which will entitle the applicant to the status of a graduate or diplomate for purposes of admission.

COURSE RULES

1. A student may enrol for this course either as a full-time student or as a part-time student. A student in full-time employment shall not be permitted to enrol as a full-time student.

2. Except with the approval of the Head of Department, the total hours selected for study should not exceed the number of hours allocated to that semester of the standard programme.

3. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

4. Students gain credits for passed units and are required to repeat failed units only.

5. Students who fail units shall be allowed to proceed with the study of further units of the programme provided that:
   (i) they have successfully completed all pre-requisite units and where applicable, have also enrolled in the co-requisite units, and
   (ii) the hours associated with the selected programmes are in accordance with Rule 2, and
   (iii) the established timetable permits the selected units to be studied concurrently.

   In certain circumstances, students who fail one unit which is pre-requisite or co-requisite for a second unit may nevertheless be deemed eligible to enrol in the second unit, such eligibility being determined by the Head of the Department administering the subject.

6. No formal supplementary examinations will be offered following the Semester Examination. However, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

7. The course structure set out in Rule 10 is organised to permit students to satisfy the pre-requisite and co-requisite requirements of the course. A study programme which departs from the course structure set out in Rule 10 requires the approval of the Head of Department.

8. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. (See Section 3).

9. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips will adversely effect assessment in the relevant subjects.

10. For a registered student commencing in the Graduate Diploma in Landscape Architecture the subjects and other work of the full-time study are as follows:

LPM141 Graduate Diploma in Landscape Architecture
Full-time

Course Structure:-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
LPP011	Introduction to the Profession	2	1
LPP021	Basic Design	6	2
LPP032	Presentation Aids and Issues	1	1
LPP041	Freehand Drawing	2	1.5
LPP051	Basic Surveying & Levelling	1	1
LPP052	Introduction to Structures	1	0.5
LPP061	Basic Principles	2	1.5
LPP071	Perception	4	2
LPP073	Land Use Generation	1	1
		20	11.5
Semester 2 - Spring			
LPP022	Introduction to Physical Design	6	2.5
LPP031	Problem Solving	2	1
LPP030	Introduction to Computer Uses	1	1
LPP042	Technical Drawing	3	2
LPP153	Materials & Uses	5	4
LPP163	Plant Identification	1	1
LPP175	History of Landscape Design	2	1
		20	12.5

		EFTSU Credit	Approx Formal Hrs/wk
Semester 3 - Autumn			
LPP112	Landscape Practice	2	1
LPP123	Site Planning	6	2.5
LPP133	Site Survey and Analysis	2	1
LPP134	Documentation	2	1
LPP043	Professional Communication	3	2
LPP144	Applied Graphics	3	2
LPP162	Ecological Systems	3	2
LPP165	Planting Design	3	1
LPP174	Human Studies	1	1
LPP176	Land Use Studies	4	2
		29	15.5
Semester 4 - Spring			
LPP113	Law and the Professions	2	1.5
LPP124	Urban Landscape Design	6	2.5
LPP125	Detailed Landscape Design	6	2.5
LPP126	Intro. to Landscape Planning	6	3
LPP135	Implementation	3	2
LPP136	Assessment and Evaluation	5	1.5
LPP145	Advanced Graphics	3	1.5
LPP154	Landscape Construction	3	2
LPP164	Horticultural Techniques	3	2
LPP177	Principles of Landscape Planning	1	1
		38	19
Semester 5 - Autumn			
LPP114	Work Experience	2	-
LPP127	Advanced Landscape Design Options	10	5
LPP137	Research Aids	4	2
LPP155	Landscape Engineering	3	1.5
LPP166	Applied Regional Ecology	3	1.5
LPP178	Resource Management	4	2
LPP179	Cultural Values & the Landscape	4	1.5
		30	13.5
Semester 6 - Spring			
LPP115	Contract & Management Practice	8	4
LPP128	Elective Design Study	12	1
LPP167	Specialised Issues	3	1
		23	6
	COURSE HRS TOTAL		79

11. For a registered part time student commencing in the Graduate Diploma in Landscape Architecture the subjects and other work for part-time study are as follows:

LPM141 Graduate Diploma in Landscape Architecture
Part-time

Course Structure:-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
LPP011	Introduction to the Profession	2	1
LPP021	Basic Design	6	2
LPP032	Presentation Aids & Issues	1	1
LPP041	Freehand Drawing	2	1.5
LPP051	Basic Surveying & Levelling	1	1
LPP052	Introduction to Structures	1	0.5
LPP061	Basic Principles	2	1.5
LPP071	Perception	4	2
LPP073	Land Use Generation	1	1
		20	11.5
Semester 2 - Spring			
LPP022	Introduction to Physical Design	6	2.5
LPP031	Problem Solving	2	1
LPP030	Introduction to Computer Uses	1	1
LPP042	Technical Drawing	3	2
LPP153	Materials and Uses	5	4
LPP163	Plant Identification	1	1
LPP175	History of Landscape Design	2	1
		20	12.5
Semester 3 - Autumn			
LPP123	Site Planning	6	3
LPP133	Site Survey and Analysis	2	1
LPP043	Professional Communication	3	2
LPP144	Applied Graphics	3	2
LPP162	Ecological Systems	3	2
LPP165	Planting Design	3	1
		20	11
Semester 4 - Spring			
LPP124	Urban Landscape Design	6	2.5
LPP125	Detailed Landscape Design	6	2.5
LPP145	Advanced Graphics	3	1.5
LPP154	Landscape Construction	3	2
LPP164	Horticultural Techniques	3	2
		21	10.5

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
LPP112	Landscape Practice	2	1
LPP134	Documentation	2	1
LPP155	Landscape Engineering	3	1.5
LPP166	Applied Regional Ecology	3	1.5
LPP174	Human Studies	1	1
LPP176	Land Use Studies	4	2
LPP179	Cultural Values and the Landscape	4	1.5
		19	9.5
Semester 6 - Spring			
LPP113	Law and the Professions	2	1.5
LPP126	Intro. to Landscape Planning	6	3
LPP135	Implementation	3	2
LPP136	Assessment and Evaluation	5	1.5
LPP167	Specialised Issues	3	1
LPP177	Principles of Landscape Planning	1	1
		20	10
Semester 7 - Autumn			
LPP114	Work Experience	2	-
LPP127	Advanced Landscape Design Options	10	5
LPP137	Research Aids	4	2
LPP178	Resource Management	4	2
		20	9
Semester 8 - Spring			
LPP115	Contract and Management Practice	8	4
LPP128	Elective Design Study	12	1
		20	5
	COURSE HRS TOTAL		79

12. For a registered student who commenced the Graduate Diploma in Landscape Architecture prior to 1984, refer to Head of Department for details of subjects and other work for either full-time or part-time study.

GRADUATE DIPLOMA IN URBAN & REGIONAL PLANNING

LPM140 GRADUATE DIPLOMA IN URBAN AND REGIONAL PLANNING

Urban and Regional Planners need to have a deep understanding of the social, political, physical and economic problems associated with the development of land and natural resources. They require, in addition, the skills to resolve problems and to exploit opportunities in the built and natural environments in the interests of present and future generations. These skills are particularly needed in Queensland at present - the population of the State is growing apace, the City of Brisbane is rapidly becoming a major metropolitan centre on a world scale, the tourist industry is burgeoning along the coast, and the immense natural resource wealth of the State is being tapped on a massive scale.

As a result, government at all levels now employs Urban and Regional Planners. Many private organizations - such as land and mineral developers, architectural surveying and legal practices and, of course, planning consultancies - are also finding the services of the Urban and Regional Planner vital to their operations.

The professional training of the Planner thus needs to be broad enough to enable him to make a significant contribution in a wide range of situations, but it must also provide him with a core of essential skills and expertise. The Graduate Diploma in Urban and Regional Planning offers such a professional training to graduates of the Bachelor of Applied Science Built Environment degree course, as well as to graduates from other academic disciplines related to Planning.

The early parts of the course are structured around a core of Planning Method and Practice, applied in turn at local, urban, regional and metropolitan scales. Contributions from Theory, Activity Studies and Development Planning are integrated with this core at each stage and the whole is set within the broader socio-economic and political context. The last third of the course is devoted to the detailed application of this basic professional knowledge and skill to one of two specialised areas of practice - Regional Development Planning and Urban Development and Design.

These final year concentration studies include taught courses and tutored project work. Students also undertake an individual Special Planning Study in the final year on a topic normally related to their concentration studies. Other parts of the course make use of a variety of teaching methods, including field studies, workshops, seminars, lectures and projects. The course may be taken part-time over six semesters or full-time over four semesters.

The following schedules summarise the component Areas of Study.

Introductory Subjects

LPP301 Graphics and Professional Presentation I
LPP302 Graphics and Professional Presentation II
LPP303 Introduction to Computers in Planning
LPP304 Introduction to Ecological Principles

1. Planning Theory

LPP311 History and Evolution of Town Planning
LPP321 Introduction to Theories of Planning
LPP331 Procedural Planning Theory
LPP341 Urban Governance
LPP351 Comparative Planning Theory
LPP361 Professional Procedures and Ethics

2. Activities and Land Uses

LPP312 Land Use Generation and Population Studies
LPP322 Urban Structure
LPP332 Housing and Community Services
LPP342 Employment, Industry and Commerce
LPP352 Transport Planning

3. Land and Resource Planning

LPP313 Site Planning
LPP323 Urban Land Development
LPP333 Rural Land Use and Planning
LPP343 Resource Management
LPP353 Planning in Developing Countries

4. Socio Economic and Political Factors

LPP324 Social Aspects of Planning
LPP334 Economics of Town Planning
LPP344 Social Planning

5. Planning Method

LPP315 Introduction to Planning Processes
LPP325 Urban Design
LPP335 Computer Applications
LPP345 Implementation and Management

6. Planning Practice

LPP316 Planning Practice I (Local)
LPP326 Planning Practice II (Urban)
LPP336 Planning Practice III (Regional)
LPP346 Planning Practice IV (Metropolitan)

7. Concentration Courses and Option Projects

LPP354 Concentration IA Urban Development and Design
and
LPP355 Option Project IA Urban Development and Design
OR
LPP356 Concentration IB Regional Development Planning
and
LPP357 Option Project IB) Regional Development Planning

8. Special Planning Study

LPP370 Special Planning Study

9. Field Studies and Workshops

LPP319 Field Studies and Workshops I
LPP329 Field Studies and Workshops II
LPP339 Field Studies and Workshops III
LPP349 Field Studies and Workshops IV

ELIGIBILITY

Normal Entry

An applicant must be the holder of a degree or diploma from a recognised University, College of Advanced Education, or approved equivalent tertiary institution

OR

have gained professional recognition by examination which is equated with an academic qualification in that profession for purposes of practice and/or membership of the professional organisation.

Special Entry

An applicant who does not meet the requirement for normal entry may apply for Special Consideration in accordance with QUT rules and procedures. On the recommendation of the Dean of the Faculty and with the approval of the Admissions Committee, such applicant may be required to undertake a bridging examination and/or bridging subjects, satisfactory completion of which will entitle the applicant to the status of a graduate or diplomate for purposes of admission.

Introductory Work

Following admission to the course, each student who has not completed the Landscape Architecture/Urban and Regional Planning strand of the Bachelor of Applied Science Built Environment course at the Queensland University of Technology may be required by the Head of Department to undertake introductory work as pre-requisite to certain subjects within the Graduate Diploma course.

COURSE RULES

1. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

2. Students gain credit for passed units and are required to repeat failed units only. However, if the student does not enrol for two consecutive years, the student may be required to undertake additional work, at the discretion of the Head of Department, upon re-enrolment.

3. Students who pass all units in a semester as set out in Rules 11 and 12 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of normal progression.

4. Students who fail particular units shall be allowed to proceed with units from other Areas of Study in the next semester provided that -

   (i) they have successfully completed all previous units within those other Areas of Study; and

   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 5 and 6; and

   (iii) the established timetable permits the selected units to be studied concurrently.

5. Except with the approval of the Head of Department, the total of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rules 11 and 12 from which the majority of units have been selected.

6. Except with the approval of the Head of Department, the total hours associated with units selected for study shall not be fewer than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

7. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provision of the General Examination Rules.

8. Areas of Study and the sequence of subjects within each Area of Study are shown in a Schedule attached to these Rules.

9. Exemptions: Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. (See Section 3).

10. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips will adversely effect assessment in the relevant subjects.

11. For a registered student in the Graduate Diploma in Urban and Regional Planning the subjects and other work of the three years part-time study are as follows -

LPM140 Graduate Diploma in Urban and Regional Planning

Course Structure (Part-time Mode):-

		EFTSU Credit	Approx Formal Hrs/wk
FIRST YEAR			
Semester 1 - Autumn			
LPP301	Graphics and Professional Presentation I	4	2
LPP304	Introduction to Ecological Principles	2	1
LPP311	History and Evolution of Town Planning	2	1
LPP312	Land Use Generation and Population Studies	2	1
LPP313	Site Planning	2	1
LPP315	Introduction to Planning Processes	4	2
LPP316	Planning Practice I (Local)	6	3
LPP319	Field Studies and Workshops I	2	1
		24	
Semester 2 - Spring			
LPP302	Graphics and Professional Presentation II	4	2
LPP321	Introduction to Theories of Planning	2	1
LPP322	Urban Structure	2	1
LPP323	Urban Land Development	2	1
LPP325	Urban Design	4	2
LPP326	Planning Practice II (Urban)	6	3
LPP329	Field Studies and Workshops II	2	1
LPP303	Introduction to Computing in Planning	2	1
		24	
SECOND YEAR			
Semester 3 - Autumn			
LPP331	Procedural Planning Theory	2	1
LPP332	Housing and Community Services	2	1
LPP333	Rural Land Use and Planning	2	1
LPP334	Economics of Town Planning	2	1
LPP335	Computer Applications in Planning	6	2
LPP336	Planning Practice III (Regional)	8	3
LPP339	Field Studies and Workshops III	2	1
		24	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 4 - Spring			
LPP341	Urban Governance	2	1
LPP342	Employment Industry and Commerce	2	1
LPP352	Transport Planning	2	1
LPP344	Social Planning	2	1
LPP345	Implementation and Management	6	2
LPP346	Planning Practice IV (Metropolitan)	8	3
LPP349	Field Studies and Workshops IV	2	1
		24	

THIRD YEAR

Semester 5 - Autumn			
LPP351	Comparative Planning Theory	3	1
LPP343	Resource Management	3	1
LPP353	Planning in Developing Countries	3	1
(LPP354 (and (LPP355 (	Concentration IA Urban Development and Design Option Project IA Urban Development and Design	6 9	2 3
OR			
(LPP356 (and (LPP357 (	Concentration IB Regional Development Planning Option Project IB Regional Development Planning	6 9	2 3
		24	
Semester 6 - Spring			
LPP361	Professional Procedures and Ethics	4	1
LPP370	Special Planning Study	20	2
		24	

12. For a registered student in the Graduate Diploma in Urban and Regional Planning the subjects and other work of the two years full-time study are as follows -

LPM140 Graduate Diploma in Urban and Regional Planning

Course Structure (Full-time Mode)		EFTSU Credit	Approx Formal Hrs/wk
FIRST YEAR			
Semester 1 - Autumn			
LPP301	Graphics and Professional Presentation I	4	2
LPP304	Introduction to Ecological Principles	2	1
LPP311	History and Evolution of Town Planning	2	1
LPP312	Land Use Generation and Population Studies	2	1
LPP332	Housing and Community Services	2	1
LPP313	Site Planning	2	1
LPP333	Rural Land Use and Planning	2	1
LPP334	Economics of Town Planning	2	1
LPP315	Introduction to Planning Processes	4	2
LPP316	Planning Practice I (Local)	6	3
LPP319	Field Studies and Workshops I	2	1
		30	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
LPP302	Graphics and Professional Presentation II	4	2
LPP321	Introduction to Theories of Planning	2	1
LPP322	Urban Structure	2	1
LPP342	Employment Industry and Commerce	2	1
LPP323	Urban Land Development	2	1
LPP352	Transport Planning	2	1
LPP303	Introduction to Computing in Planning	2	1
LPP344	Social Planning	2	1
LPP325	Urban Design	4	2
LPP326	Planning Practice II (Urban)	6	3
LPP329	Field Studies and Workshops II	2	1
		30	
SECOND YEAR			
Semester 3 - Autumn			
LPP331	Procedural Planning Theory	2	1
LPP351	Comparative Planning Theory	3	1
LPP343	Resource Management	3	1
LPP353	Planning in Developing Countries	3	1
LPP335	Computer Applications in Planning	6	2
LPP336	Planning Practice III (Regional)	8	3
(LPP354 (and	Concentration IA Urban Development and Design	6	2
(LPP355 (OR	Option Project IA Urban Development and Design	9	3
(LPP356 (and	Concentration IB Regional Development Planning	6	2
(LPP357 (	Option Project IB Regional Development Planning	9	3
LPP339	Field Studies and Workshops III	2	1
		42	
Semester 4 - Spring			
LPP341	Urban Governance	2	1
LPP361	Professional Procedures and Ethics	4	1
LPP345	Implementation and Management	6	2
LPP346	Planning Practice IV (Metropolitan)	8	3
LPP370	Special Planning Study	20	2
LPP349	Field Studies and Workshops IV	2	1
		42	

BACHELOR OF APPLIED SCIENCE -
BUILT ENVIRONMENT

BTJ227 BACHELOR OF APPLIED SCIENCE - BUILT ENVIRONMENT

The Bachelor of Applied Science is a three year full-time degree course with two general aims: it is intended both to give the student a broad educational background on which to build, and at the same time to lead to postgraduate studies in his or her chosen professional field. In a world of rapid change and increasing complexity the student needs to focus on the problem and on the process rather than on current practices; to this end she or he needs a creative approach to problems of the built environment. In addition the course is so arranged that the student will acquire a knowledge and understanding of the work of professionals in related fields.

ENTRANCE REQUIREMENTS - Refer to QUT Admission Procedures Booklet.

COURSE RULES

1. A registered student in this course will be required to attend full-time for every day in the week in accordance with the set timetable.

2. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules and may comprise one or more of:-
   Oral presentation: seminar, debates.
   Written submissions: essays, reports, assignments, thesis.
   Graphic submissions: drawings, photography, models.
   Three dimensional: models, construction workshop submissions and laboratory exercises.

3. Students gain credits for passed units and are required to repeat failed units only.

4. Students who pass all units in a semester as set out in Rule 12, will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression. In general, all units in a semester are pre-requisite to related units in the following semester.

5. Students who fail units shall not be allowed to proceed with the study of units from the next semester of the programme unless -

   (i) they have successfully completed the relevant pre-requisite units;

   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 6 and 7; and

   (iii) the established timetable permits the selected units to be studied concurrently.

6. Except with the approval of the Dean of the Faculty, the total of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rule 12 from which the majority of units have been selected.

7. Except with the approval of the Dean of the Faculty, the total hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

8. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

9. Pre-requisite subjects are shown in a Schedule attached to these rules.

10. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. (See Section 3).

11. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Dean of the Faculty, failure to attend these field trips will adversely effect assessment in the relevant subjects.

12. For a registered student in the Bachelor of Applied Science - Built Environment course, the subjects and other work of the three years full-time study are as follows -

BACHELOR OF APPLIED SCIENCE - COURSE STRUCTURE

Normal Course Programme

ARCHITECTURE STRAND

Strand Code ARC

	Semester 1 - Autumn	EFTSU Credit	Approx Formal Hrs/wk
BTB101	The Human Environment 1	4	2
BTB102	History of the Built Environment 1	6	3
BTB103	Environmental Studies 1	2	1
BTB110	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
SVB001	Surveying and Mapping	2	1
CMB116	Writing for Designers 1	4	2
BTB100	Introductory Design 1	22	8
		52	23

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
BTB201	The Human Environment 2	4	2
BTB202	History of the Built Environment 2	8	5
BTB203	Environmental Studies 2	2	1
BTB210	Applied Mathematics for Designers 2	6	3
BTB204	Applied Science for Designers 2	4	2
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers 2	4	2
BTB200	Introductory Design 2	22	8
		52	24
Semester 3 - Autumn			
BTB301	The Human Environment 3	6	3
CEB353	Structural Mechanics 1	2	1
BTB305	Construction 1	12	6
BTB307	Design Science 1	2	1
BTB303	Environmental Studies 3 - Evaluation	2	1
BTB300	Design 1	23	7
BTB306	Visual Communication 1	4	2
		51	21
Semester 4 - Spring			
BTB403	Environmental Studies 4 - Environmental Impacts	2	1
BTB405	Construction 2	13	6
BTB401	The Human Environment 4	4	2
BTB407	Design Science 2	2	1
BTB408	Building Services 1	4	2
CEB453	Structural Mechanics 2	2	1
BTB406	Visual Communications 2	4	2
BTB400	Design 2	22	6
		53	21
Semester 5 - Autumn			
BTB512	Applied Economic Studies	2	1
BTB508	Building Services 2	5	2
BTB525	Building Construction 1	14	6
BTB500	Design 3	24	6
CEB553	Structural Mechanics 3	4	2
BTB527	Design Science 3	3	1
		52	18
Semester 6 - Spring			
BTB609	Law of the Built Environment	4	2
BTB608	Building Services 3	4	2
BTB625	Building Construction 2	14	6
BTB600	Design 4	24	6
CEB653	Structural Mechanics 4	4	2
BTB627	Design Science 4	2	1
		52	19

INDUSTRIAL DESIGN STRAND

Strand Code IND

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BTB101	The Human Environment 1	4	2
BTB102	History of the Built Environment 1	6	3
BTB103	Environmental Studies 1	2	1
BTB110	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
CMB116	Writing for Designers 1	4	2
BTB100	Introductory Design 1	22	8
BTB151	Introduction to Technology	2	1
		52	23
Semester 2 - Spring			
BTB201	The Human Environment 2	4	2
BTB202	History of the Built Environment 2	8	5
BTB203	Environmental Studies 2	2	1
BTB210	Applied Mathematics for Designers 2	6	3
BTB204	Applied Science for Designers 2	4	2
CMB117	Writing for Designers 2	4	2
BTB200	Introductory Design 2	22	8
		50	23
Semester 3 - Autumn			
BTB301	The Human Environment 3	6	3
CEB353	Structural Mechanics 1	2	1
BTB305	Construction 1	12	6
BTB303	Environmental Studies 3 - Evaluation	2	1
BTB300	Design 1	23	7
BTB306	Visual Communication 1	4	2
BTB354	Ergonomics 1	3	2
		52	22
Semester 4 - Spring			
BTB403	Environmental Studies 4 - Environmental Impacts	2	1
BTB405	Construction 2	13	6
BTB401	The Human Environment 4	4	2
BTB406	Visual Communications 2	4	2
BTB400	Design 2	22	6
BTB454	Ergonomics 2	3	2
MEB010	Dynamics	4	2
		52	21

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
BTB512	Applied Economic Studies	2	1
BTB500	Design 3	24	6
MEB012	Dynamics 2	6	2
BTB552	Economics of Industrial Production	4	2
BTB558	Manufacturing Technology 1	10	5
BTB506	Visual Communication 3	4	2
BTB556	Marketing	4	2
		54	20
Semester 6 - Spring			
BTB609	Law of the Built Environment	4	2
BTB600	Design 4	24	6
BTB653	Visual Communication 4	6	2
BTB655	CAD for Industrial Designers	6	2
BTB658	Manufacturing Technology 2	12	5
		52	17

LANDSCAPE ARCHITECTURE/URBAN & REGIONAL PLANNING STRAND

Strand Code LAP

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BTB101	The Human Environment 1	4	2
BTB102	History of the Built Environment 1	6	3
BTB103	Environmental Studies 1	2	1
BTB110	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
SVB001	Surveying and Mapping	2	1
CMB116	Writing for Designers 1	4	2
BTB100	Introductory Design 1	22	8
		52	23
Semester 2 - Spring			
BTB201	The Human Environment 2	4	2
BTB202	History of the Built Environment 2	8	5
BTB203	Environmental Studies 2	2	1
BTB210	Applied Mathematics for Designers 2	6	3
BTB204	Applied Science for Designers 2	4	2
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers 2	4	2
BTB200	Introductory Design 2	22	8
		52	24
Semester 3 - Autumn			
BTB301	The Human Environment 3	6	3
CEB353	Structural Mechanics 1	2	1
BTB305	Construction 1	12	6
BTB307	Design Science 1	2	1
BTB303	Environmental Studies 3 - Evaluation	2	1
BTB300	Design 1	23	7
BTB306	Visual Communication 1	4	2
BTB342	Plant Recognition	2	1
		53	22
Semester 4 - Spring			
BTB403	Environmental Studies 4 - Environmental Impacts	2	1
BTB445	Environmental Technology 1	6	3
BTB444	Population and Urban Studies	6	3
BTB401	The Human Environment 4	4	2
BTB407	Design Science 2	2	1
CEB453	Structural Mechanics 2	2	1
BTB406	Visual Communications 2	4	2
BTB400	Design 2	22	6
BTB442	Plant Requirements	2	1
BTB447	Land Use Generation	3	2
		53	22

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
BTB512	Applied Economic Studies	2	1
BTB543	Environmental Studies 5 - Impact Analysis	3	1
BTB545	Environmental Technology 2	6	3
BTB500	Design 3	24	6
BEB571	Ecological Principles 1	4	2
BTB546	Land Development 1	4	2
BTB555	Quantities	3	1
BTB548	Utility Services	4	2
		50	18
Semester 6 - Spring			
BTB643	Environmental Studies 6 - Issues and Ethics	3	1
BTB609	Law of the Built Environment	4	2
BTB600	Design 4	24	6
BEB671	Ecological Principles 2	5	2
BTB646	Land Development 2	5	2
BTB647	Land Use Policies	6	2
BTB648	Community Services	5	2
		52	17

INTERIOR DESIGN STRAND

Strand Code DES

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BTB101	The Human Environment 1	4	2
BTB102	History of the Built Environment 1	6	3
BTB103	Environmental Studies 1	2	1
PHB144	Applied Science for Designers 1	6	3
CMB116	Writing for Designers 1	4	2
BTB100	Introductory Design 1	22	8
BTB132	Light and Colour Studies	6	2
		50	21
Semester 2 - Spring			
BTB201	The Human Environment 2	4	2
BTB202	History of the Built Environment 2	8	5
BTB203	Environmental Studies 2	2	1
BTB204	Applied Science for Designers 2	4	2
CMB117	Writing for Designers 2	4	2
BTB200	Introductory Design 2	22	8
BTB235	Introduction to Interior Technology	6	3
BTB239	Applied Anthropometrics	4	2
		54	25

		EFTSU Credit	Approx Formal Hrs/wk
Semester 3 - Autumn			
BTB301	The Human Environment 3	6	3
BTB305	Construction 1	12	6
BTB307	Design Science 1	2	1
BTB303	Environmental Studies 3 - Evaluation	2	1
BTB300	Design 1	23	7
BTB331	Furniture and Fittings	3	2
BTB306	Visual Communication 1	4	2
		52	22
Semester 4 - Spring			
BTB403	Environmental Studies 4 - Environmental Impacts	2	1
BTB401	The Human Environment 4	4	2
BTB407	Design Science 2	2	1
BTB408	Building Services 1	4	2
BTB406	Visual Communications 2	4	2
BTB400	Design 2	22	6
BTB435	Interior Technology	10	5
BTB431	Furniture and Fittings	4	2
		52	21
Semester 5 - Autumn			
BTB508	Building Services 2	4	2
BTB500	Design 3	24	6
BTB506	Visual Communication 3	4	2
BTB535	Interior Technology 2	16	6
BTB531	Furniture and Fittings 3	4	2
		52	18
Semester 6 - Spring			
BTB609	Law of the Built Environment	4	2
BTB608	Building Services 3	4	2
BTB600	Design 4	24	6
BTB635	Interior Technology 3	14	6
BTB633	Professional Practice	4	2
BTB631	Furniture and Fittings 4	2	1
		52	19

BACHELOR OF APPLIED SCIENCE -
CONSTRUCTION MANAGEMENT

BGJ201 BACHELOR OF APPLIED SCIENCE - CONSTRUCTION MANAGEMENT

The increasing complexity of modern construction requires tertiary level trained personnel to fill the higher technological and managerial positions within building organisations.

The aim of the course is to fill this need. The students are therefore provided in the course with a thorough understanding of building technology and management skills.

Due to the practical nature of the course much of the teaching is conducted by part-time professionals drawn from the building industry and related professions. The course is a six year part-time or two years full-time/two years part-time course with a requirement for some day release.

ENTRANCE REQUIREMENTS - Refer to QUT Admission Procedures Booklet.

COURSE RULES

1. A registered student in the full-time programme for this course will be required to attend on one afternoon each week, with the remainder of the class work made up during the evenings. In some years, there will be a requirement for some attendance on Saturday.
2. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.
3. Students gain credits for passed units and are required to repeat failed units only.
4. Students who pass all units in a semester as set out in Rules 13 and 14 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.
5. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

   (i) they have successfully completed all pre-requisite units and, where applicable, have also enrolled in the co-requisite units; and

   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 6 and 7; and

   (iii) the established timetable permits the selected units to be studied concurrently.

   In certain circumstances, students who fail one unit which is pre-requisite or co-requisite for a second unit may nevertheless be deemed eligible to enrol in the second unit, such eligibility being determined by the Head of the Department administering the subject.

6. Except with the approval of the Head of Department, the total number of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rules 13 and 14 from which the majority of units have been selected.

7. Except with the approval of the Head of Department, the total hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

8. No formal supplementary examinations will be offered following the semester examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

9. Pre-requisite and co-requisite subjects are shown in a Schedule attached to these rules.

10. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. (See Section 3).

11. A student registered in the part-time study programme must be employed full-time by an approved Building organisation or other approved body, for three of the final four years of the course.

12. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips will adversely affect assessment in the relevant subjects.

13. For a registered student in the Bachelor of Applied Science Construction Management course, the subjects and other work of the six years part-time study programme are as follows:

BGJ201 Bachelor of Applied Science - Construction Management

Course Structure (Part-time):-		EFTSU Credit	Approx Formal Hrs/wk
Semster 1 - Autumn			
BGB151	Construction I	12	6
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
MAB297	Mathematics for Construction	4	2
		29	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
BCB154	Construction II	14	7
BCB141*	Material Science I	4	2
BCB142*	Structures I	4	2
ISB180	Computer Applications	4	2
		26	
Semester 3 - Autumn			
BCB253	Construction III	10	5
BCB241*	Measurement of Construction I	6	3
BCB242*	Structures II	4	2
BCB244	Material Science II	4	2
CMB134	Communications	4	2
		28	
Semester 4 - Spring			
BCB254	Construction IV	12	6
BCB241*	Measurement of Construction I	6	3
BCB243	Law 1 -Building Acts and Regulations	4	2
BCB242*	Structures II	4	2
		26	
Semester 5 - Autumn			
BCB013	Building Services I - HVAC	4	2
BCB341	Building and Civil Engineering Construction	4	2
BCB340*	Measurement of Construction II	4	2
BCB342	Law 2 - Principles and Property	3	1.5
MNB007	Behavioural Science	6	3
SVB101	Surveying and Measuring	4	2
		25	
Semester 6 - Spring			
BCB014	Building Services II - Electrical	4	2
BCB340*	Measurement of Construction II	4	2
BCB345	Hygiene and Sanitation	6	3
BCB405	Project Equipment and Safety	4	2
SVB203	Project Survey	4	2
		22	
Semester 7 - Autumn			
BCB443	Building Services III	5	2.5
BCB440*	Law 3 - Building Contracts	2	1
BCB403	Building Management I	4	2
BCB601	Formwork Design and Construction	4	2
BCB442*	Valuations and Dilapidations	4	2
BCB444	Mechanical and Electrical Estimating OR Elective	3	2
		23	
Semester 8 - Spring			
BCB440*	Law 3 - Building Contracts	2	1
BCB446	Estimating I	5	2.5
BCB401	Building Economics and Cost Planning	4	2
BCB404	Building Management II	4	2
BCB301	PM1 - Advanced Construction Methods	4	2
BCB442*	Valuations and Dilapidations	3	1
		21	

* full year subject

		EFTSU Credit	Approx Formal Hrs/wk
Semester 9 - Autumn			
BGB540	Estimating II	5	2.5
ACB581	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
CEB701	Civil Engineering Quantities I	4	2
	OR		
	Elective		
		23	
Semester 10 - Spring			
BGB406	Building Financial Management II	4	2
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB550	PM5 - Project Cost Control	6	3
BGB543	Law 4 Torts and Arbitration	3	1.5
BGB343	Economics of the Construction Industry	4	2
	OR		
	Elective		
		25	
Semester 11 - Autumn			
BGB656*	Building Research	8	4
BGB651*	PM6 - Building Development Techniques	4	2
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	4
		22	
Semester 12 - Spring			
BGB656*	Building Research	10	5
BGB651*	PM6 - Building Development Techniques	4	2
BGB606	PM7 - Land Development Studies	4	2
BGB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective		
		21	

14. For a registered student in the Bachelor of Applied Science Construction Management course, the subjects and other work of the two years full-time/two years part-time study programme are as follows:

Full-Time Option

BGJ201 Bachelor of Applied Science - Construction Management

Course Structure (Full-time/Part-time Mode):-

Full-Time		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BGB151	Construction I	12	6
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
CMB134	Communications	4	2
BGB342	Law 2 - Principles and Property	3	1.5
		27	

* full year subject

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn (cont)			
MNB007	Behavioural Science	6	3
MAB297	Mathematics for Construction	4	2
SVB101	Surveying and Measuring	4	2
		41	
Semester 2 - Spring			
BGB154	Construction II	14	7
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
BGB131	Measurement of Construction 1A	6	3
BGB345	Hygiene and Sanitation	6	3
SVB203	Project Survey	4	2
BGB343	Economics of Construction Industry	4	2
ISB180	Computer Applications	4	2
		46	
Semester 3 - Autumn			
BGB253	Construction III	10	5
BGB244	Material Science II	4	2
BGB242*	Structures II	4	2
BGB013	Building Services I - HVAC	4	2
BGB245	Measurement of Construction 1B	6	3
BGB443	Building Services III	5	2.5
BGB440*	Law 3 - Building Contracts	2	1
BGB403	Building Management I	4	2
BGB601	Formwork Design and Construction	4	2
BGB442*	Valuations and Dilapidations	3	2
		47	
Semester 4 - Spring			
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts and Regulations	4	2
BGB242*	Structures II	4	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440*	Law 3 - Building Contracts	2	1
BGB446	Estimating I	5	2.5
BGB405	Project Equipment and Safety	4	2
BGB404	Building Management II	4	2
BGB442*	Valuations and Dilapidations	3	1
		49	
Part-time			
Semester 5 - Autumn			
BGB341	Building and Civil Engineering Construction	4	2
BGB540	Estimating II	5	2.5
ACB581	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
BGB444	Mechanical and Electrical Estimating OR Elective	4	2
		27	

* full year subject

		EFTSU Credit	Approx Formal Hrs/wk
Semester 6 - Spring			
BGB406	Building Financial Management II	4	2
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB550	PM5 - Project Cost Control	6	3
BGB543	Law 4 - Torts and Arbitration	3	1.5
BGB301	PM1 - Advanced Construction Methods	4	2
		25	
Semester 7 - Autumn			
CEB701	Civil Engineering Quantities I	4	2
	OR		
	Elective		
BGB656*	Building Research	9	4
BGB651*	PM6 - Building Development Techniques	4	2
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
		27	
Semester 8 - Spring			
BGB656*	Building Research	9	5
BGB651*	PM6 - Building Development Techniques	4	2
BGB401	Building Economics and Cost Planning	4	2
BGB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective		
BGB606	PM7 - Land Development Studies	4	2
		25	

* full year subject

BACHELOR OF APPLIED SCIENCE -
QUANTITY SURVEYING

BGJ200 BACHELOR OF APPLIED SCIENCE - QUANTITY SURVEYING

The professional Quantity Surveyor is concerned today with the economic and sensible use of our resources when all costs are taken into consideration. These must include an evaluation of costs in terms of community needs as well as the actual costs of materials and labour. Consideration should also be given to the planned use of our building resources.

The course will attempt to give graduates an understanding of the national economy and its effect on the Building Industry.

This course as a whole will stimulate enquiry and will produce professional Quantity Surveyors who are more than technically proficient to exercise the normal day to day role expected of a professional.

The student will receive an education of sufficient depth in selected areas to enable him to adapt and contribute to the rapidly changing demands of the modern world.

ENTRANCE REQUIREMENTS - Refer to QUT Admission Procedures Booklet.

COURSE RULES

1. A registered student in the full-time programme of this course will be required to attend day release and evening study.
2. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.
3. Students gain credits for passed units and are required to repeat failed units only.
4. Students who pass all units in a semester as set out in Rules 13 and 14 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.
5. Students who fail units will be allowed to proceed with the study of units from the next semester of the programme provided that -
   (i) they have successfully completed all pre-requisite units and, where applicable, have also enrolled in the co-requisite units; and
   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 6 and 7; and
   (iii) the established timetable permits the selected units to be studied concurrently.

   In certain circumstances, students who fail one unit which is pre-requisite or co-requisite for a second unit may nevertheless be deemed eligible to enrol in the second unit, such eligibility being determined by the Head of the Department administering the subject.

6. Except with the approval of the Head of Department, the total number of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rules 13 and 14 and from which the majority of units have been selected.

7. Except with the approval of the Head of Department, the total hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

8. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

9. Pre-requisite and co-requisite subjects are shown in a Schedule attached to these rules.

10. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'. See relevant section.

11. A student registered in the part-time study programme 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.

12. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips will adversely effect assessment in the relevant subjects.

13. For a registered student in the Bachelor of Applied Science Quantity Surveying course, the subjects and other work of the six years part-time study programme are as follows:

BCJ200 Bachelor of Applied Science - Quantity Surveying

Course Structure (Part-time):-		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BGB151	Construction I	12	6
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
MAB297	Mathematics for Construction	4	2
		24	
Semester 2 - Spring			
BGB154	Construction II	14	7
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
ISB180	Computer Applications	4	2
		26	
Semester 3 - Autumn			
BGB253	Construction III	10	5
BGB241*	Measurement of Construction I	6	3
BGB244	Material Science II	4	2
CMB134	Communications	4	2
		24	
Semester 4 - Spring			
BGB254	Construction IV	12	6
BGB241*	Measurement of Construction I	6	3
BGB243	Law 1 - Building Acts and Regulations	4	2
		22	
Semester 5 - Autumn			
BGB013	Building Services I-HVAC	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB340*	Measurement of Construction II	4	2
BGB342	Law 2 - Principles and Property	3	1.5
BGB442*	Valuation and Dilapidation	3	2
SVB101	Surveying and Measuring	4	2
		23	
Semester 6 - Spring			
BGB014	Building Services II - Electrical	4	2
BGB340*	Measurement of Construction II	4	2
BGB343	Economics of Construction Industry	4	2
	OR		
	Elective		
BGB345	Hygiene and Sanitation	6	3
BGB442*	Valuation and Dilapidation	3	1
BGB520	Specification	4	2
		24	

* full year subject

		EFTSU Credit	Approx Formal Hrs/wk
Semester 7 - Autumn			
BCB443	Building Services III	5	2.5
BCB440*	Law 3 - Building Contracts	2	1
CEB701	Civil Engineering Quantities I	4	2
BCB403	Building Management I	4	2
BCB447*	Measurement of Construction III	4	2
BCB444	Mechanical and Electrical Estimating	4	2
	OR		
	Elective		
BCB451	Computer Software Applications I	4	2
		27	
Semester 8 - Spring			
BCB440*	Law 3 - Building Contracts	2	1
CEB801	Civil Engineering Quantities II	4	2
BCB446	Estimating I	5	2.5
BCB404	Building Management II	4	2
BCB447*	Measurement of Construction III	4	2
BCB301	PM1 - Advanced Construction Methods	4	2
		23	
Semester 9 - Autumn			
BCB540	Estimating II	5	2.5
ACB581	Building Financial Management I	4	2
BCB529	PM2 - Quantitative Techniques	5	2.5
BCB547	PM3 - Construction Planning Techniques I	5	2.5
		19	
Semester 10 - Spring			
BCB406	Building Financial Management II	4	2
BCB526	Post Contract Services I	5	2.5
BCB545	Measurement of Construction IV	4	2
BCB543	Law 4 - Torts and Arbitration	3	1.5
BCB552	Office Management	2	1
BCB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective		
		21	
Semester 11 - Autumn			
BCB656*	Building Research	9	4
BCB651*	PM6 - Building Development Techniques	4	2
BCB646*	Cost Planning and Cost Control	5	2
BCB653	Post Contract Services II	5	2.5
MNB018	Industrial Relations	4	2
		25	
Semester 12 - Spring			
BCB452	Computer Software Applications II	4	2
BCB656*	Building Research	9	5
BCB651*	PM6 - Building Development Techniques	4	2
BCB646*	Cost Planning and Cost Control	5	3
		24	

* full year subject

14. For a registered student in the Bachelor of Applied Science Quantity Surveying course, the subjects and other work of the two years full-time/three years part-time programme are as follows:

BGJ200 Bachelor of Applied Science - Quantity Surveying

Course Structure (Full-time/Part-time Mode):-

Full-time		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
BGB151	Construction I	12	6
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
CMB134	Communications	4	2
BGB342	Law 2 - Principles and Property	3	1.5
MAB297	Mathematics for Construction	4	2
SVB101	Surveying and Measuring	4	2
		35	
Semester 2 - Spring			
BGB154	Construction II	14	7
BGB141*	Material Science I	4	2
BGB142*	Structures I	4	2
BGB345	Hygiene and Sanitation	6	3
BGB343	Economics of Construction Industry	4	2
BGB131	Measurement of Construction IA	6	3
ISB180	Computer Applications	4	2
		42	
Semester 3 - Autumn			
BGB253	Construction III	10	5
BGB244	Material Science II	4	2
BGB013	Building Services I - HVAC	4	2
BGB245	Measurement of Construction IB	6	3
BGB443	Building Services III	5	2.5
BGB440*	Law 3 - Building Contracts	2	1
BGB403	Building Management I	4	2
BGB442*	Valuations and Dilapidations	3	2
MNB018	Industrial Relations	4	2
		43	
Semester 4 - Spring			
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts and Regulations	4	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440*	Law 3 - Building Contracts	2	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442*	Valuations and Dilapidations	3	1
		41	

* full year subject

PART-TIME		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
BGB447*	Measurement of Construction III	4	2
BGB540	Estimating II	5	2.5
BGB451	Computer Software Applications I	4	2
BGB547	PM3 - Construction Planning Techniques I	5	2.5
BGB341	Building & Civil Engineering Construction	4	2
		22	
Semester 6 - Spring			
BGB301	PM1 - Advanced Construction Methods	4	2
BGB447*	Measurement of Contruction III	4	2
BGB545	Measurement of Construction IV	4	2
BGB543	Law 4 - Torts and Arbitration	3	1.5
BGB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective		
BGB520	Specification	4	2
		22	
Semester 7 - Autumn			
ACB581	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB651*	PM6 - Building Development Techniques	4	2
BGB444	Mechanical and Electrical Estimating		
	OR		
	Elective	4	2
BGB646*	Cost Planning and Cost Control	5	2
CEB701	Civil Engineering Quantities	4	2
		25	
Semester 8 - Spring			
BGB406	Building Financial Management II	4	2
BGB651*	PM6 - Building Development Techniques	4	2
BGB646*	Cost Planning and Cost Control	5	3
CEB801	Civil Engineering Quantities II	4	2
BGB552	Office Management	2	1
BGB526	Post Contract Services I	5	2.5
		25	
Semester 9 - Autumn			
BGB656*	Building Research	8	4
BGB653	Post Contract Services II	5	2.5
		13	
Semester 10 - Spring			
BGB656*	Building Research	10	5
BGB452	Computer Software Applications II	4	2
		14	

* full year subject

15. For a registered overseas student in the Bachelor of Applied Science Quantity Surveying course, the subjects and other work are offered in an alternative two years full-time/two years part-time mode. Details can be obtained from the Head of Department.

BACHELOR OF ARCHITECTURE

ARJ192 BACHELOR OF ARCHITECTURE

The essence of this course is the development of design skills based on a broad foundation of general and design studies.

One of the characteristics - and one of the difficulties - in the profession of architecture is the broad range of activities encompassed.

Rimmer, the eminent legal authority has said that "it is probable that the services of an architect in modern times are more comprehensive in their scope and more detailed in their application than those performed by any other profession".

This provides some special problems in education. Some of the graduates will specialise in fairly limited areas quite early in their professional careers while many will find it necessary to perform competently over a very wide spectrum.

To provide for such diversity this course is designed to provide a central core of design studies complemented by studies in related areas of knowledge and in electives in fields of the student's own choice.

The general arrangement of the program provides areas of cultural study in the earlier years leading to more specific professional direction in the later years. The course considers the changing role of the architect in society and incorporates a wide range of studies in management, law and financial affairs.

The course recognises and defines the important complementary role to be played by office and field experience in the education of the student and adopts this as a significant element in the program. The studies draw extensively on the expert knowledge of the employing architects and on the expertise of the many part-time practitioners who participate in the teaching.

In summary, the course aims to prepare students to be capable practising architects who, subject to practice requirements, are eligible for membership of the Royal Australian Institute of Architects and eligible for registration by the Board of Architects of Queensland.

Because the program is substantially different in structure from most other tertiary courses, intending students are invited to discuss their prospective careers with the Head of Department or the course co-ordinator.

ENTRANCE REQUIREMENTS - Refer to QUT Admission Procedures Booklet.

In addition, the following provisions will apply in relation to advanced standing in the Bachelor of Architecture course:

(a) A student who has completed Bachelor of Applied Science Built Environment (Architecture Strand), or who has completed an equivalent first tier course in a school of architecture recognised by the Commonwealth Association of Architects, or who has passed the Intermediate level Prescribed Examinations conducted by the Board of Architects of Queensland may be admitted with advanced standing and be exempted from all subjects in the first three years of the course.

(b) Before being enrolled in the fourth year of the BArch course, a student who has been admitted under paragraph (a) above, may be required to take introductory subjects as required by the Head of Department.

COURSE RULES

1. The normal course program requires a student to attend for the equivalent of one full day and two evenings each week.

2. (a) Except as provided in Rule 2(b) below, a student must be engaged in approved employment 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 Department.

   (b) A student who is admitted with advanced standing and who is granted exemption from all subjects in the first three years of the course may be granted exemption from the subject ARB791 Approved Employment 1.

3. Students gain credits for passed units and are required to repeat failed units only.

4. Students who pass all units in a semester will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.

5. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

   (i) they have successfully completed all pre-requisite units and where applicable, have also enrolled in the co-requisite units; and
   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 6 and 7; and
   (iii) the established timetable permits the selected units to be studied concurrently.

6. Except with the approval of the Head of Department, the total of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme.

7. Except with the approval of the Head of Department, the total of hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

8. No formal supplementary examinations will be offered following the Semester Examinations; however, a student may be awarded a withheld result in accordance with the provisions of the General Examination Rules.

9. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters' (see relevant section).

10. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Head of Department, failure to attend these field trips in the relevant subjects will adversely effect assessment.

11. For a registered student in this course, the subjects and other work of the six years part-time program is as follows -

ARJ192 Bachelor of Architecture Course Structure

YEAR 1		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
ARB191	Liberal Studies 1		
	Contemporary Civilization	4	2
	Language	4	2
	Freehand Drawing	4	2
ARB193	Design Studies 1		
	Lectures and Studio Sessions	6	3
ARB195	Technology 1		
	Lecture/Workshop/Studio Sessions	6	3
ARB197	Field Studies 1A		
	Flexible Program of Fieldwork	2	1
		26	

		EFTSU Credit	Approx Formal Hrs/wk
Semester 2 - Spring			
ARB192	Liberal Studies 2		
	Natural Environment	4	2
	Written Communication	4	2
	Applied Art	4	2
ARB194	Design Studies 2		
	Lectures and Studio Sessions	6	3
ARB196	Technology 2		
	Lecture/Workshop/Studio Sessions	6	3
ARB198	Field Studies 1B		
	Flexible Program of Fieldwork	2	1
		26	
YEAR 2			
Semester 3 - Autumn			
ARB291	Liberal Studies 3		
	Recent History	4	2
	Modern Literature	4	2
ARB293	Design Studies 3		
	Design Presentation 1	4	2
	Design Studio 1	4	2
ARB295	Technology 3		
	Structural Mechanics 1	2	1
	Materials Method and Structure 1	6	3
ARB297	Field Studies 2A		
	Flexible work program	2	1
		26	
Semester 4 - Spring			
ARB292	Liberal Studies 4		
	European Cultural History	4	2
	Fine Art	2	1
ARB294	Design Studies 4		
	Design Presentation 2	4	2
	Design Studio 2	6	3
ARB296	Technology 4		
	Structural Mechanics 2	2	1
	Materials Method and Structure 2	6	3
ARB298	Field Studies 2B		
	Flexible Field Work Program	2	1
		26	

YEAR 3		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
ARB391	Liberal Studies 5		
	Elements of Law	2	1
	Government 1	2	1
ARB393	Design Studies 5		
	Design Theory 1	2	1
	Design Studio 3	8	4
ARB395	Technology 5		
	Structural Mechanics 3	4	2
	Construction 1	2	1
	Basic Engineering Services 1	2	1
	Environmental Science 1	2	1
ARB397	Field Studies 3A		
	Flexible Program of Fieldwork	2	1
		26	
Semester 6 - Spring			
ARB392	Liberal Studies 6		
	Legislation	2	1
	Government 2	2	1
ARB394	Design Studies 6		
	Design Theory 2	2	1
	Design Studio 4	8	4
ARB396	Technology 6		
	Structural Mechanics 4	4	2
	Construction 2	2	1
	Basic Engineering Services 2	2	1
	Environmental Science 2	2	1
ARB398	Field Studies 3B		
	Flexible Program of Fieldwork	2	1
		26	

YEAR 4		EFTSU Credit	Approx Formal Hrs/wk
Semester 7 - Autumn			
ARB491	Specifications Lecture and Seminar Sessions	4	2
ARB493	Design 1 Lecture, Studio & Critique Sessions	16	8
ARB495	Professional Studies 1 Lecture and Seminar Sessions	4	2
ARB497	Field Studies 4 Flexible program of Fieldwork supplemented with Seminars	2	1
		26	
Semester 8 - Spring			
ARB491	Specifications Lecture and Seminar Sessions	4	2
ARB493	Design 1 Lecture, Studio & Critique Sessions	16	8
ARB495	Professional Studies 1 Lecture and Seminar Sessions	4	2
ARB497	Field Studies 4 Flexible program of Fieldwork supplemented with Seminars	2	1
		26	
YEAR 5			
Semester 9 - Autumn			
ARB591	Elective 1 OR Subject selected from another course at QUT or other tertiary institution, subject to approval by Head of School	6	3
ARB593	Design 2 Lecture, Studio & Critique Sessions	12	6
ARB595	Professional Studies 2 Lecture and Seminar Sessions	4	2
ARB597	Field Studies 5 Flexible program of Fieldwork supplemented with Seminars	4	2
		26	
Semester 10 - Spring			
ARB591	Elective 1 OR Subject selected from another course at QUT or other tertiary institution, subject to approval by Head of School.	6	3
ARB593	Design 2 Lecture, Studio & Critique Sessions	12	6
ARB595	Professional Studies 2 Lecture and Seminar Sessions	4	2
ARB597	Field Studies 5 Flexible program of Fieldwork supplemented with Seminars	4	2
		26	

YEAR 6		EFTSU Credit	Approx Formal Hrs/wk
Semester 11 - Autumn			
ARB691	Elective 2 (Thesis) Major Individual Study Program with Individual Tutorials	12	6
ARB693	Design 3 Preliminary Studio Sessions and Critiques	6	3
ARB695	Professional Studies 3 Lecture and Seminar Series	6	3
ARB697	Field Studies 6 Fieldwork Program with Discussion Groups from time to time	2	1
		26	
Semester 12 - Spring			
ARB691	Elective 2 (Thesis) Major Individual Study Program with Individual Tutorials	12	6
ARB693	Design 3 Primarily Studio Sessions and Critiques	6	3
ARB695	Professional Studies 3 Lecture and Seminar Series	6	3
ARB697	Field Studies 6 Fieldwork Program with Discussion Groups from time to time	2	1
		26	

APPROVED EMPLOYMENT

ARB791	Approved Employment 1
ARB792	Approved Employment 2
ARB793	Approved Employment 3
ARB794	Approved Employment 4

* A student may undertake fourth and fifth years concurrently as a full-time student. The study program must be arranged with the Head of Department.

ASSOCIATE DIPLOMA BUILT ENVIRONMENT TECHNICIAN

BTL178 ASSOCIATE DIPLOMA BUILT ENVIRONMENT TECHNICIAN

This course is offered with entry at Grade 12 level to provide for the training of technicians for the architecture and associated professions.

ENTRANCE REQUIREMENTS - Refer to QUT Admission Procedures Booklet.

COURSE RULES

1. A registered student may only enrol as a full-time/ part-time student.

2. The method of assessment to be used in the case of each subject will be determined in accordance with the General Examination Rules.

3. Students gain credit for passed units and are required to repeat failed units only.

4. Students who pass all units in a semester as set out in Rule 12 will be expected to enrol in the units set out for the following semester. Timetables are organised on the basis of this normal progression.

5. Students who fail units shall be allowed to proceed with the study of units from the next semester of the programme provided that -

   (i) they have successfully completed all pre-requisite units and, where applicable, have also enrolled in the co-requisite units; and
   (ii) the hours associated with the selected programme fall between the maximum and minimum hours defined in Rules 6 and 7; and
   (iii) the established timetable permits the selected units to be studied concurrently.

   In certain circumstances, students who fail one unit which is pre-requisite or co-requisite for a second unit may nevertheless be deemed eligible to enrol in the second unit, such eligibility being determined by the Head of the Department administering the subject.

6. Except with the approval of the Dean of the Faculty, the total of hours associated with units selected for study should not exceed the number of hours allocated to the semester of the programme in Rule 12 from which the majority of units have been selected.

7. Except with the approval of the Dean of the Faculty, the total of hours associated with the units selected for study shall not be less than 50% of the number of hours allocated to the semester of the programme from which the majority of the units have been selected.

8. No formal supplementary examinations will be offered following the Semester Examinations. However, a student may be awarded a withheld result in accordance with the provision of the General Examination Rules.

9. After the end of second semester and before graduation, students must be engaged in work allied to the architectural or associated professions as approved by the Dean of the Faculty for a period of not less than twelve months. Documentary evidence of such employment must be submitted prior to application for graduation.

10. Exemptions. Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters'.

11. Some essential teaching activities conducted off campus involve field trips. The Academic Board is required to approve essential field trips in each semester and students are expected to attend all such field trips. Except with the approval of the Dean of the Faculty, failure to attend these field trips will adversely effect assessment in the relevant subjects.

12. For a registered student in the Associate Diploma Built Environment Technician, the subjects and other work of the one year full-time and two years part-time study are as follows -

BTL178 Associate Diploma Built Environment Technician

Course Structure

YEAR 1 (Semesters 1 and 2 no longer offered)		EFTSU Credit	Approx Formal Hrs/wk
Semester 3 - Autumn			
ARA341*	Presentation Media	4	2
SVT300	Measurement	2	1
ARA342*	Building Construction II	7	4
ARA343*	Design Appreciation II	6	3
ARA344*	History of the Built Environment	2	1
		22	
Semester 4 - Spring (Part-time all students)			
ARA341*	Presentation Media	4	2
ARA342*	Building Construction II	7	3
ARA440	Structural Mechanics	2	1
ARA343*	Design Appreciation II	6	3
ARA344*	History of the Built Environment	2	1
ARA330	Building Services I	2	1
		22	

* full year subject

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn (Part-time all students)			
ARA541*	Specifications	2	1
ARA521*	Drawing Office Practice	2	1
ARA542*	Building Construction III	6	3
ARA543*	Building Services II	2	1
ARA527*	Design Appreciation III	6	3
ARA528*	Legislation of the Built Environment	2	1
		20	
Semester 6 - Spring (Part-time all students)			
ARA541*	Specifications	2	1
ARA521*	Drawing Office Practice	2	1
ARA542*	Building Construction III	6	3
ARA543*	Building Services II	2	1
ARA527*	Design Appreciation III	6	3
ARA528*	Legislation of the Built Environment	2	1
		20	

* full year subject

Pre-requisites

7

SCHEDULE OF SUBJECTS AND PRE-REQUISITES

The list below is compiled in alphabetical order of subject name. Where subject names are repeated, students should check for the right subject code.

Subject	Pre-requisite
POSTGRADUATE COURSES	
Masters	
BTN102 Urban Design Context Studio	BTN101 Urban Design Analysis Studio
BTN103 Urban Design Conjecture Studio	BTN101 Urban Design Analysis Studio
BTN104 Urban Design Guidelines Studio	BTN103 Urban Design Conjecture Studio
BTN401 Urban Design Computer Applications	Prior Computing knowledge
BTN501 Urban Design Research Dissertation	All other course subjects
Graduate Diplomas	
ARP623 Advanced Ergonomics 2	ARP613 Advanced Ergonomics 1
ARP673 Industrial Design II	ARP672 Industrial Design I
ARP674 Industrial Design Research 1	(ARP673 Industrial Design II (P/T)
ARP675 Industrial Design Research 2	(ARP672 Industrial Design I (F/T) (ARP674 Industrial Design Research I (P/T)

F/T = Full-time
P/T = Part-time

UNDERGRADUATE COURSES	
BGB645 Advanced Measurement of Construction	(BGB241 Measurement of Construction I (BGB340 Measurement of Construction II (BGB447 Measurement of Construction III (BGB545 Measurement of Construction IV

Subject	Pre-requisite
BGB642 Applied Computer Techniques	(BGB513 PM3 - Construction Planning Techniques I (BGB548 PM4 - Construction Planning Techniques II
BTB210 Applied Mathematics for Designers 2	BTB110 Applied Mathematics for Designers 1
ARB505 Building Construction 1	BTB405 Construction 2
ARB605 Building Construction 2	ARB505 Building Construction 1
ARA342 Building Construction II	ARA126 Building Construction 1 (a) ARA226 Building Construction 1 (b)
BGB401 Building Economics and Cost Planning	BGB241 Measurement of Construction I BGB340 Measurement of Construction II BGB131 Measurement of Construction IA BGB245 Measurement of Construction IB BGB246 Measurement of Construction IIB
BGB406 Building Financial Management II	ACB581 Building Financial Management I BGB404 Building Management I
CEB701 Civil Engineering Quantities I	BGB341 Building and Civil Engineering Construction
CEB801 Civil Engineering Quantities II	CEB701 Civil Engineering Quantities I
BGB154 Construction II	BGB151 Construction I
BGB253 Construction III	BGB154 Construction II
BGB254 Construction IV	BGB253 Construction III
BTB405 Construction 2	BTB305 Construction 1

Subject	Pre-requisite
BGB646 Cost Planning and Cost Control	(BGB241 Measurement of Construction I (BGB340 Measurement of Construction II (BGB447 Measurement of Construction III (BGB545 Measurement of Construction IV (BGB446 Estimating I (BGB540 Estimating II
BTB300 Design 1	BTB200 Introductory Design 2
BTB400 Design 2	BTB300 Design 1
BTB500 Design 3	BTB400 Design 2
BTB600 Design 4	BTB500 Design 3
BTB407 Design Science 2	BTB307 Design Science 1
ARB507 Design Science 3	BTB407 Design Science 2
ARB607 Design Science 4	ARB507 Design Science 3
MEB012 Dynamics 2	MEB010 Dynamics 1
ARB444 Ergonomics 2	ARB344 Ergonomics 1
BGB446 Estimating I	(BGB241 Measurement of Construction I
BGB540 Estimating II	(BGB340 Measurement of Construction II (BGB446 Estimating I
BGB601 Formwork Design and Construction	BGB142 Structures I
BTB200 Introductory Design 2	BTB100 Introductory Design 1
BGB543 Law 4 - Torts and Arbitration	BGB440 Law 3 - Building Contracts
BGB241 Measurement of Construction I	BGB151 Construction I BGB154 Construction II
BGB245 Measurement of Construction IB	BGB151 Construction I BGB154 Construction II
BGB340 Measurement of Construction II	(BGB253 Construction III (BGB254 Construction IV (BGB241 Measurement of Construction I

Subject	Pre-requisite
BGB246 Measurement of Construction IIB	(BGB151 Construction I (BGB154 Construction II (BGB253 Construction III (BGB131 Measurement of Construction IA (BGB245 Measurement of Construction IB
BGB447 Measurement of Construction III	BGB345 Hygiene and Sanitation
BGB545 Measurement of Construction IV	(BGB013 Building Services I (BGB014 Building Services II (BGB443 Building Services III
BGB444 Mechanical and Electrical Estimating	(BGB013 Building Services I - HVAC (BGB014 Building Services II - Electrical
BGB539 PM2 - Quantitative Techniques	(BGB403 Building Management I (BGB404 Building Management II
BGB548 PM4 - Construction Planning Techniques II	BGB547 PM3 - Construction Planning Techniques I
BGB550 PM5 - Project Cost Control	BGB529 PM2 - Quantitative Techniques
SVB203 Project Survey	SVB101 Surveying and Measuring
BTB508 Services 2	BTB408 Services 1
BTB608 Services 3	BTB508 Services 2
BGB520 Specifications	(BGB151 Construction I (BGB154 Construction II (BGB253 Construction III (BGB254 Construction IV
ARA440 Structural Mechanics	ARA126 Building Construction 1 (a) ARA226 Building Construction 1 (b)
CEB453 Structural Mechanics 2	CEB353 Structural Mechanics 1
CEB553 Structural Mechanics 3	CEB453 Structural Mechanics 2
CEB653 Structural Mechanics 4	CEB553 Structural Mechanics 3
BGB242 Structures II	BGB142 Structures I
BGB131 Measurement of Construction IA	BGB151 Construction I

Co-requisites

8

SCHEDULE OF SUBJECTS AND CO-REQUISITES

Subject	Co-Requisite
UNDERGRADUATE	
BGB401 Building Economics and Cost Planning	BGB446 Estimating 1
BGB131 Measurement of Construction IA	BGB154 Construction II
BGB013 Building Services 1 - HVAC	BGB253 Construction III
BGB245 Measurement of Const 1B	
BGB443 Building Services III	
BGB403 Building Management I	
BGB601 Formwork Design and Construction	
BGB254 Construction IV	
BGB014 Building Services II - Elec.	
BGB246 Measurement of Const. IIB	
BGB446 Estimating 1	
BGB243 Law 1 - Building Acts & Regulations	

CHANGES IN SUBJECT CODES

The following subjects have changed their codes from 1988 to 1989. The changes do not reflect a major alteration to content, and the subjects are to be considered as equivalent.

1988		1989	
ARB505	Building Construction 1	BTB525	Building Construction 1
ARB605	Building Construction 2	BTB625	Building Construction 2
ARB507	Design Science 3	BTB527	Design Science 3
ARB607	Design Science 4	BTB627	Design Science 4
LPB513	Environmental Studies 5 - Impact Analysis	BTB543	Environmental Studies 5 - Impact Analysis
LPB532	Environmental Technology 2	BTB545	Environmental Technology 2
ARB344	Ergonomics 1	BTB354	Ergonomics 1
ARB444	Ergonomics 2	BTB454	Ergonomics 2
ARB153	Introduction to Technology	BTB151	Introduction to Technology
LPB503	Land Development 1	BTB546	Land Development 1
LPB602	Land Development 2	BTB646	Land Development 2
LPB607	Land Use Policies	BTB647	Land Use Policies
ARB618	Manufacturing Technology 2	BTB658	Manufacturing Technology 2
ARB526	Marketing	BTB556	Marketing
LPB312	Plant Recognition	BTB342	Plant Recognition
LPB412	Plant Requirements	BTB442	Plant Requirements
LPB414	Population and Urban Studies	BTB444	Population and Urban Studies
LPB504	Quantities	BTB555	Quantities
ARB606	Visual Communication 4	BTB653	Visual Communication 4
ARB139	Applied Anthropometrics	BTB239	Applied Anthropometrics
ARB202	Light and Colour Studies	BTB132	Light and Colour Studies
ARB301	Fabrics and Textiles	BTB331	Furniture and Fittings 1
ARB402	Decorative Crafts	BTB431	Furniture and Fittings 2
LPB517	Land Use Generation	BTB447	Land Use Generation
ARB514	Interior Materials	BTB531	Furniture and Fittings 3
ARB509	Product Assessment and Selection	BTB631	Furniture and Fittings 4
ARB518	Manufacturing Technology 1	BTB558	Manufacturing Technology 1

Prizes and Awards

9

PRIZES

Australian Institute of Building, Queensland Chapter Prize

Awarded to the student with the best academic achievement in the third or successive years of the Graduate Diploma or Bachelor of Applied Science in Building course.

Australian Institute of Quantity Surveyors, Queensland Chapter Prize

Awarded to the first year student of the Bachelor of Applied Science - Quantity Surveying, with the most outstanding academic achievement.

Paddy Behan Memorial Prizes

(i) Donated by the Local Government Association of Queensland, and awarded to the student in the Graduate Diploma in Landscape Architecture who shows the most outstanding design ability in the final year 'Elective Design Study'.

(ii) Donated by the Local Government Association of Queensland, and awarded to the student with the best performance in 'Special Planning Study'.

Board of Architects Prizes

Awarded for outstanding results during the academic year. Three awards will be presented as follows:

Final Year - Bachelor of Applied Science (Strand A)
Final Year - Bachelor of Architecture
Final Year - Graduate Diploma in Architecture

Andrew Brock Prize

Donated by the staff of Utah in memory of Andrew Brock, and awarded to the student with the best performance in the second year of the Bachelor of Applied Science - Built Environment.

Design Institute of Australia Award

Awarded to the outstanding student in Product Design in the final year of the Graduate Diploma in Industrial Design.

W G Grigg Award for Excellence

Donated by the Foundation President of the Australian Institute of Building (Queensland Chapter), and awarded to the student in the final year of the Degree course in Building who submits the best Research Project'.

James Hardie Achievement Award

Awarded to the student in fifth year Design in the Architecture courses whose project shows a high degree of excellence of design and an imaginative and creative use of Hardie's building products for functional, practical and aesthetic purposes.

James Hardie Prize for Building

Awarded to the student of the third year of the Degree course in Building with the best results over five semesters in the subject 'Construction Materials and Methods'.

Karl Langer Award

Donated by the Australian Institute of Landscape Architects, and awarded to a student in the Graduate Diploma course in Landscape Architecture who, in the opinion of the adjudicators, shows the greatest potential for the practice of Landscape Architecture.

Neville Lund Memorial Award

Awarded to the student in the final year of the Bachelor of Applied Science Built Environment (Landscape Architecture/Urban and Regional Planning Strand) for the best project in integrated environmental design.

David McNeill Memorial Prize

Donated by the Australian Institute of Quantity Surveyors, and awarded to the final year student of the Degree or Graduate Diploma course in Quantity Surveying who, in the opinion of the adjudicator, shows the highest standard of proficiency in Quantity Surveying expertise.

MIM Holdings Limited Prize

Awarded to the student submitting the best project on an annually assigned topic in the third year of the Graduate Diploma course in Industrial Design.

National Trust Historic Building Prize

Awarded to a final year student of the Department of Architecture and Industrial Design and Planning and Landscape Architecture for a thesis study of an historic building or precinct.

Project Managers Forum Prize

Donated by the Project Managers Forum and awarded to the student with the best graduate project in the Graduate Diploma in Building Project Management course final year subject.

Queensland Cement and Lime Company Limited Award

Awarded to the fourth year student in the Bachelor of Applied Science course in Building, with the best academic performance in building technology subjects over the four years.

Queensland Institute of Technology - Awards 'With Distinction'

Awarded to students in undergraduate courses in the Faculty of Built Environment who, in the opinion of the Institute, has demonstrated excellence in scholarship.

Queensland Institute of Technology - Institute Medal

Awarded to a student from any undergraduate degree course in the School of the Built Environment who, in the opinion of the Institute, has shown outstanding academic performance throughout the course.

Royal Australian Institute of Architects - QIA Medallion

Awarded to the most outstanding student of the sixth year of the Degree course in Architecture. The student must have shown consistent progress throughout the course.

Royal Australian Planning Institute Prize

Awarded to the final year student with the best overall performance in the Graduate Diploma in Urban and Regional Planning.

Society for Growing Australian Plants Prize for Landscape Design Using Native Plants

Awarded to a student in the Graduate Diploma in Landscape Architecture course, for the best design using Australian native plants.

Urban and Regional Planning Prize

Donated by the Institution of Surveyors, Australia, Queensland Division, and awarded to the student with the best performance over the first two years of the Graduate Diploma course in Urban and Regional Planning.

Urban Design Advisory Council Prize for Option Planning Studies

Awarded to the student in the Graduate Diploma in Urban and Regional Planning submitting the best Option Project in the final year of the course.

Synopses

10

SYNOPSES

ARP676 Advanced CAD for Industrial Designers 1

Aim:
To develop an understanding of CAD in the design process.

Synopsis:
2D and 3D application of appropriate CAD programs. Development of a design project through the Interactive use of CAD and related engineering programs as an aid to design analyses and finalisation.

ARP677 Advanced CAD for Industrial Designers 2

Aim:
To develop an understanding of CAD/CAM in the design, analyses, and manufacturing process.

Synopsis:
3D solid modelling, finite analyses, and CAM will be employed. A project will be taken from first concept through final documentation. The presentation, technical description, engineering analyses, and finalisation to Computer Numerically Controlled (CNC) testing and prototype production of a small product.

ARP613 Advanced Ergonomics 1

Aim:
1. To develop an understanding of man-machine systems and their relations with living and working environment.
2. To understand the importance of ergonomics (human factors) criteria and their application to industrial design.

Synopsis:
This course consists of series of seminars relevant to case studies concerned. Typical case studies are concentrated on the ergonomic evaluation of consumer products.

ARP623 Advanced Ergonomics 2

Aim:
To extend an understanding of systematic ergonomic evaluation methods and their application to design problems.

Synopsis:
This course consists of series of lectures and seminars relevant to case studies based upon the evaluation stage of the case study. Typical case studies are concentrated on the ergonomic evaluation of the working and living environment, e.g. key-punch operator work station, bus driver work station and ergonomic evaluation of an assembly line.

LPP145 Advanced Graphics

Aim:
To review and assess personal skills and techniques.
To expand the range of available techniques in studio design situations and applications.
To concentrate on individual abilities and preferences, in particular presentation approaches and professional applications, with a continuing emphasis on development of personal style and technique.
To ensure sophisticated and effective professional packaging of design work.

Synopsis:
Practice-based studio application related to design documentation; specialised

professional applications to both site planning and larger scale design involvements; advanced colour techniques; emphasis on total presentation skills; relationship of verbal presentation to visual material.
Evaluation and assessment will be based on class exercises and applications in Design.

LPP127 Advanced Landscape Design

Aim:
To develop competencies and high professional standards in the execution and presentation of complex and specialised problems.
To consolidate and demonstrate skills and understanding previously acquired in areas of landscape design and support subjects.
To develop specialised expertise in option areas within the broad scope of the profession.

Synopsis:
Students elect to take any one of two studios offered (one in Site Planning and Design and one in Landscape Planning). Projects will be practice-orientated and be staffed, where practicable, by practitioners.
Project involvement will emphasise a range of scales, problem types and requirements within specific constraints determined by time, cost, client/brief, environmental context or practical criteria.
Evaluation and assessment will be based on project work with combined staff overview at end of each studio.

BGB645 Advanced Measurement of Construction

Aim:
1. An in-depth study of those problems which arise due to a difference in interpretations of ASMM to make students aware of the various interpretations.
2. To resolve the many unsolved problems in the more difficult sections of ASMM.
3. To discuss and analyse the concepts of Measurement in the more complex and unusual construction solutions encountered by Senior members of the profession for current projects.
4. To introduce students to the use of computers in professional quantity surveying offices. To discuss the office management, professional practices and procedures.

Synopsis:
The series of lectures in this subject is to be used to study in depth, those problems which arise due to a difference in interpretation of ASMM. Students at this stage of their education normally have many unsolved problems and the opportunity to discuss these in a lecture-seminar type situation is advantageous. It will also be used to give students an appreciation of the problems of interpretation.

The first lecture in the Autumn Semester will set forth the general approach and there will be a general discussion on the method of handling Trade Preambles and the framing of Item descriptions. The following trades will then be examined in detail - Excavator, Concretor, underpinning, Piling, Asphalter, Complex ground work and tunnelling, Bricklayer and Blocklayer, Drainer and Sanitary Engineer, special types of insitu concrete construction and all types of precast constructions, preparation of Preliminaries and Preambles for various types of contracts and the methods of pricing and paying for these items.

In the spring Semester, the following trades will be examined in detail - Structural Steel, Plasterer, Pavior, Tiler, Terrazzo Worker, Mason, Carpets and Curtains, Metalworker and Joinery Fittings, Roofer and roof plumber including steel tray roof, Glazier, Painter, Mechanical Engineer, External works including diversion of

services, landscaping, roads, kerbing and channelling. Alterations and Demolition, forms of contract and builders selection, and team leadership and project control.

A study of the various types of computer packages and word processors used by the profession. The study will look at the advantages and disadvantages of those systems in use and how they can be best utilised by the profession.

A study of Scale of fees and professional charges, code of ethics, letters of engagement, law involving the quantity surveyor and his client, professional indemnity, professional image and status. Office management and procedures.

BTB239 Applied Anthropometrics

This course will complement and extend into detailed studies the work introduced into LPB111 The Human Environment 1.

Aim:
To develop the understanding of the dimensions and movements of the human body and of its perceptual systems with special reference to the design of furniture and interior environments.

Synopsis:
The course will consist of a series of studio exercises. These exercises will examine and assess a range of furniture and interior environments in terms of the theory covered in the lectures in the Human Environment 1.

BGB642 Applied Computer Techniques

Aim:
To evaluate a range of commercial and non-commercial computer programs designed for the construction industry.

Synopsis:
Various computer packages used in the construction process, covering the following areas:

(a) Accounting and cost control packages,
(b) CPM, network analysis techniques,
(c) Resource balancing,
(d) Simulation techniques.

BTB512 Applied Economic Studies

Aim:

1. To encourage understanding of the state of the macro economic environment especially as it is/will be affected by government stabilisation measures.
2. To show application of economics to the industries making up the built environment.
3. In the case of some students, to provide a basic input which will be developed in subsequent subjects.

Synopsis:
Basically, the subject will advance knowledge and understanding of an economy (particularly the Australian economy) and at the same time encourage appreciation of the application of the fundamentals of economic theory. While the essential focus is upon macro-economics (economics of the whole economy) some of the fundamental characteristics of price determination in markets (ie micro-economics) is introduced in order to complete the description and analysis of the economy. To this end the first half of the subject will focus upon Economic definitions, demand and supply, prices and market structures, the circular flow of income, finance, busines cycles, government sector, structural change. The second half will focus upon application of economics principles and techniques through selected case study examples.

LPP144 Applied Graphics

Aim:
To consolidate abilities and skills previously acquired and to explore the role of professional graphics as both an analytical medium and as a means of translating and describing intent/ideas.
To promote and develop professional standards of presentation.
To cultivate personal styles and techniques with an emphasis on illustrative graphics.

Synopsis:
Practice-based studio applications and exploration of full range of design documentation requirements with emphasis on design process and stages: analysis, concept, sketch, preliminary and final; abstract/symbolic and representational formats; illustrative plan graphics; continued application of colour and drawing conventions.
Evaluation and assessment will be based on class exercises.

ARB143 Applied Mathematics for Designers 1

Aim:
To revise, consolidate and extend knowledge of those branches of mathematics essential to the practising designer.

Synopsis:
Applications of plane and solid geometry in design: revision of basic geometry; symmetry; construction and packing of solids; spherical geometry and its applications. Applications of trigonometry in design: revision of basic trigonometry; calculation of heights, distances, areas and volumes. Data collection and analysis in design; introduction to statistics; use of computers in data analysis; elements of computer programming.

ARB243 Applied Mathematics for Designers 2

Aim:
To revise, consolidate and extend knowledge of those branches of mathematics essential to the practising designer.

Synopsis:
Applications of plane and solid geometry in design: revision of basic geometry; symmetry; construction and packing of solids; spherical geometry and its applications. Applications of trigonometry in design: revision of basic trigonometry; calculation of heights, distances, areas and volumes. Data collection and analysis in design; introduction to statistics; use of computers in data analysis; elements of computer programming.

CEB353 Applied Mechanics

Aim:
To provide sufficient theoretical basis for future studies in Structural Mechanics.

Synopsis:
Loans on Structures. Equilibrium of Forces. Moments and Reactions. Bending Moment and Shear Forces. Stress and Strain. Bending stresses. Shear stresses. Fixed and Continuous Beams (qualitative). Theory of Columns. Truss analysis.

LPP166 Applied Regional Ecology

Aim:
To promote understanding of regional landscape ecology as an aid to projecting broader-scale effects of design decisions.

Synopsis:
The study of large scale landscape on a regional basis, including ecological relationships between biotic and abiotic components (flora, fauna, soils, climate, and landforms) and the impacts of development of various kinds on the ecosystems within the region; the natural capacity of a region to sustain itself and respond to change; constraints, options, and priorities with respect to disturbance and development; basic ecosystem management relevant to multi-purpose landscapes.
Seminars, tutorials and field work will be held. Evaluation and assessment will be through a written report.

ARB144 Applied Science for Designers 1

Aim:
To lay the foundations of a scientific understanding of the physical environment and the technology by which it can be adapted to human use.

Synopsis:
Physics for environmental design: energy and energy transfer, heat, light and sound; introduction to mechanics; principles of hydraulics and fluid flow; electricity, magnetism and basic electronics. Chemistry for environmental design: basic chemical properties of commonly occurring materials, natural and artificial; common chemical processes in buildings and artefacts. Earth science and climatology for environmental design: land forms and their origins; introduction to the physical and horticultural properties and behaviour of soils and rocks.

BTB204 Applied Science for Designers 2

Aim:
To lay the foundations of a scientific understanding of the physical environment and the technology by which it can be adapted to human use.

Synopsis:
Physics for environmental design: energy and energy transfer, heat, light and sound; introduction to mechanics; principles of hydraulics and fluid flow; electricity, magnetism and basic electronics. Chemistry for environmental design: basic chemical properties of commonly occurring materials, natural and artificial; common chemical processes in buildings and artefacts.

ARB153 Applied Technology

Aim:
To provide basic knowledge on applied technologies, and how they relate to industrial products and systems.

Synopsis:
The subject consists of series of lectures covering in a broad sense: different technological issues and their application in the content of technological evolution; factors related to technological changes; appropriate technologies.

ARA122 Art Graphics (a)
ARA222 Art Graphics (b)

Aim:
To develop skills in colour presentation various media.

Synopsis:
Water colour and poster colour sketching and rendering. Colour mixing. Character of pigments. Theory of colour, hue, tone value, chroma, Rood's Law, colour circle, colour harmony, tonal and colour discord. Application of colour theory to presentation. Techniques of water colour and mixed media.

LPP021 Basic Design

Aim:
To stimulate aesthetic awareness and appreciation of basic concepts of design in both natural and built environments.
To examine the role and nature of design philosophies and theories.
To develop and establish understanding and skills in the application of art elements, aesthetic principles, and design vocabulary.
To encourage individual design capabilities.

Synopsis:
Studies in dynamics of abstract language of visual order; theories and developments in art, design and perception; studies in colour theory and applications to design, materials, layout and composition; structure, texture, shape, form, pattern, etc; proportion, dynamic symmetry, movement, balance, rhythm, harmony, etc; introduction to photographic languages and composition. Emphasis on two dimensional applications.
Material wil be covered in studio lectures, demonstrations, tutorials and field experience. Evaluation and assessment will be based on studio developed exercises and projects.

LPP061 Basic Principles

Aim:
To introduce basic concepts of ecology, soil science, and horticulture.

Synopsis:
Basic principles of ecology: organisms, species, inches, adaptations, biogeochemical cycles, energy, trophic levels, structure, eco-systems, limiting factors. Soils: origin, physical and chemical characteristics relating to needs of plants, basic soil types, classification, and identification techniques. Plants: needs of plants for growth, basic botany.

LPP051 Basic Surveying and Levelling

Aim:
To impart techniques of basic surveying and levelling.
To ensure ability to undertake simple survey and levelling.

Synopsis:
Basic land surveying and levelling: use of equipment for both horizontal and vertical measuring - tapes, chains, compass, optical prism, tilting level, staff, inclinometer; use of plane table; graphic illustration of results.
Students will be introduced to equipment and techniques in tutorials, and will use the equipment in field situations to produce plans and reduced levels, on which will be based evaluation and assessment.

MNB007 Behavioural Science

Aim:
To provide students with a better understanding of how people behave in business organizations and to improve competency in understanding and dealing with the human problems arising in such organizations.

Synopsis:
An introduction to perception, motivation, individual personality, social attitudes, group interaction and dynamics; social motives and the sources and resolution of conflict. Students will be introduced to the practical application and limitations of behavioural studies through the use of readings and case studies drawn from the building industry.

An introduction to the job and responsibilities of management; the functions and role of the manager including planning, organization, control, budgetings and

decision making; styles of leadership. Students will discuss and assess the various leadership styles and their application in the building industry, together with an assessment of the decision making roles of the contractor, architect, unions, government and owner on the building site. Students will be introduced to employee selection training, appraising and promotion. Worker efficiency and working conditions.

BGB341 Building and Civil Engineering Construction

Aim:
To provide students with a sufficiently detailed knowledge of the methods employed in the execution of civil engineering construction so that an understanding of the likely problems may be developed. The emphasis is directed towards the physical aspects of the work rather than towards the design and planning requirements.

Synopsis:
Civil Engineering techniques commonly used in excavation of large project sites, involving bulk excavation, earth and rock retaining systems, and rock excavation and explosive handling. Discussion on dewatering and techniques of pile driving bored pier and special foundation construction.

The course concludes with a discussion of the problems faced in the demolition of structures, particularly those associated with prestressed concrete construction.

Roadworks - techniques, Stabilized construction and surface sealing and associated bridge construction.

Particular attention is given to the need for falsework and temporary works and their effect on cost.

ARB712 Building Construction I

Aim:
1. To extend and reinforce understanding of buildings as socio-technical systems.
2. To extend knowledge of contemporary and, where relevent, historical building construction.
3. To extend the ability to solve the technical problems of building design, with special reference to industrial buildings and simple buildings of several stories.
4. To reinforce understanding of the links between structural theory, building science, construction and design.
5. To provide further practice in the skills of technical communication.

Synopsis:
The course will be conducted by the case study method, and predominantly by studio work. Case studies will be selected to develop a thorough understanding of the construction of non-domestic buildings of intermediate size. Each case study will be introduced by lectures explaining the system characteristics of the building type, the human and environmental factors which constrain the solution, and the building systems which have been developed for the building type. Students will then develop their own set of solutions for a particular case. Studio work will be complemented by field work.

ARB716 Building Construction 1

Aim:
This is a continuation of ARB712 Building Construction I

Synopsis:
See ARB712 Building Construction 2

ARA126 Building Construction I (a)
ARA226 Building Construction I (b)

Aim:
To develop in the student a sound knowledge of building materials, their use in construction, and techniques of building simple structures.

Synopsis:
Introduction to building and architecture; Trades involved. Explanation of plans, sections, elevations; Construction Drawing practice; Lettering. The building site, outline of site data. Elementary mechanics of building construction, sufficient to understand principles of construction.

Techniques of construction for simple structures with special reference to domestic work; carpentry, brick and concrete block, concrete, internal and external finishes, windows, special construction such as cyclone construction.

ARA342 Building Construction II

Aim:
To further students' knowledge and understanding of materials and their uses in building construction.

Synopsis:
Building Construction II (a) - Building Plant, Fire resisting Construction, Elementary Steel and Concrete Construction, Retaining walls, Steel frame design and details.

Building Construction II (b) - Detailed study of special items of construction such as chimneys, staircases, joinery, fittings, furniture and wall finishes.

ARA542 Building Construction III

Aim:
1. To familiarise students with all aspects of plumbing and drainage of buildings.
2. To give students a sound groundwork in advanced building construction.

Synopsis:
Building Construction IV - Water Supply to buildings; source of supply, storage and distribution; Hot water installations; Sanitation, septic tanks, absorption and transpiration beds; Drainage systems; sanitary fittings; Stormwater and Sewerage disposal; Garbage and refuse disposal.

Building Construction V - Detailed study of advanced building methods related to structural mechanics, details of cladding, and finishing of framed structures. Methods and approximate estimating in particular the role of the Quantity Surveyor in relation to the Architect.

BGP423 Building Contract Law

Aim:
To provide the students with a greater understanding of contract law relating to building and consultant employment agreements and various practices related to the building industry. To outline the concept of Arbitration.

Synopsis:
Contract Law: Basic principles, formation and discharge of a contract.
Elements of Contract - offer, acceptance, certainty and consideration.
Contents of Valid Contract - misrepresentation, collateral contract, implied terms. Formal requirements in Queensland and part performance. Contract documents and their interpretation. Remedies for breach of contract. Recovery by builders of payment for work done - concept of entire contract, substantial performance and Quantum Meruit.
The Building Contract Process: With particular reference and consideration of

the major provisions in Australian Standard Forms of Building Contract. Aspects covered include - Tenders, Subcontractors, Role of the Architect or Engineer, Variations, Time for completion and extension of time, Claims and payments. Legal issues and problems associated with project management contracts. Contract types. Parties to their contract and their rights and responsibilities etc. Arbitration: Nature of and comparison with actions at law - The agreement parties, subject matter, appointment of arbitrators or umpire conduct of arbitration; powers and duties of an arbitrator, Rules of Evidence, enforcement of award. Costs.

Assessment:
Assignment and examination.

ARP524 Building Economics

(a)
Estimating - square cost preliminary estimates through to detailed elemental estimates, definition of elements. Cost Planning - from inception to tender. Types of contract. Post Contract Control. Built-up Rates - simplified price analysis. Building Services Cost Control. Elemental Analyses. Feasibility Studies (example). Detailed elemental analysis - practical by students based on drawing and specification.

(b)
Real Property Markets. Structure and Operation of the Construction Industries. Stability and Instability. The Finance Industries. Cost and Revenues Analysis. Project Evaluation. Project Control. Economics of Design. Viability of Practices.

BGB401 Building Economics and Cost Planning

Aim:
To examine the concept of cost control systems and to develop and reinforce the basic skills in Quantity Surveying.

Synopsis:
The concept of Cost Control - building outputs and costs; comparison of cost planning and approximate estimating.
Cost implication of design Variables - perimeter/floor area ratio; size of building circulation space; storey height; implication of Buildiing height variations; column spacings, floor spans and loading.
Effect of site conditions on building costs; cost implication of prefabrication and standardisation.
Approximate Estimating - types and uses.
Measurement of variations; adjustment of prime cost and provisional sums.
Cost analyses, Indices and Data, application and use of cost analyses; cost data; worked examples covering the preparation and adjustment of cost plans.
Progress Payments, Rise and Fall Calculations and Final Accounts.
Bulk checking techniques and checking for Bill of quantity discrepancies.

Textbook:
Seeley, I.M. 'Building Economics'.

ACB581 Building Financial Management I

Aim:
1. To develop an awareness of the accounting process and accounting systems in the Building Industry.
2. An introduction to Financial Management.

Synopsis:
The development, influences and products of Accounting. The nature of Assets, Liabilities and Proprietorship. The Accounting Equation and the Balance Sheet. Ledger Accounts and the Double Entry System. The Accounting Period and Profit

Determination. Accounting for Cash. Budgeting. Accounting for Fixed Assets. Different forms of Ownership and Capital Structure formation. Introduction to the Analysis and Interpretation of Accounting Reports and Financial Statements. Introduction to taxation.

Textbook:
Thacker, R.J., 'Accounting Principles', Prentice-Hall, 1976. Edition 2.

BGB406 Building and Financial Management II

Aim:
To develop an advanced skill in Engineering Economy and Financial Management.

Synopsis:
Search and Selection of Construction Projects. The Discount Rate - The Cost of Capital, and Return on Investment, and to Opportunity Cost. Cash Flows and Contract Mark-Up. Risk, Uncertainty and Inflation in Capital Investment Decisions. Analysis and Interpretation of Financial Statements. Sources of Funds and Classifications in the Structure of Funds. Bidding Theory and Strategy, Prescribed Payments Taxation System.

Textbooks:
Harris, F. and McCaffer, R., 'Modern Construction Management', Crosby and Lockwood, 1979.
Adrian, J.J., 'Quantitative Methods in Construction Management', 1973, American Elsevier Pub. Co. Inc. N.Y.
Stark, R.M. and Nicholls R.L., 'Mathematical Foundations for Design, Civil Engineering Systems', McGraw Hill, 1972.

BGB403 Building Management I

Aim:
To introduce students to basic management principles, to provide an overview of the construction industry and an introduction to management practice within the building industry.

Synopsis:
Management in Principle - Planning, leading, organising, controlling and applied communication. Fundamentals of management. Roles of policy maker and executive. Accountability. Communication. Problem Solving. Organization structures and relationships, formal and informal structures, latest trends in organization.

Management in Practice - Building industry participants - client to builder, and their possible relationship and operational sequence. Systems in the building industry. Contract management and head office - small and large contracts. Management job description - Contracts, Plant, Estimating, Purchasing, Planning and Accounting Heads. Contract Terminology. Types of tenders and contracts. Controlling incoming work - securing contract.

BGB404 Building Management II

Aim:
A study of the more advanced management principles and their application to site administration and management.

Synopsis:
Site Administration and Management - Directing, delegation and co-ordination, administration from the standpoint of the most effective use of resources (People, equipment, materials and money); the optimization problem and the use of simulation. Administration -pre-commencement stage, insurance. Site layout and organization -circulation, equipment, plant and storage location. Site offices and facilities. Contact period administration - personnel, responsibilities.

Purchasing and ordering procedures, records and returns. Communications. Building Trades Awards, definitions, pay and conditions. Unit costing, quality control, site time control. Subcontractor specialist - policy. Planning, co-ordination and programming. Site management and supervision, payment and records, communications, failure. Plant Management - purchase v. hire, working costs, depreciation, overhead, residual value. Plant yard. Records, administration, training. Schedules and economic analysis. Contract Supervision - responsibilities. Progress payments, variations, final accounts.

BGB656 Building Research

Aim:

1. To develop an understanding of the nature and management of research in the building industry.
2. To develop a skill in bibliographic surveys.

Synopsis:
History of Building Research. The Definition of Research. Australian and International Building Research Organizations. The Nature of the Building Industry and Implications for Research. Financing Research. Future Developments in Building Research. Research Management. The Research Process. The development and presentation of a bibliographic review.

ARA330 Building Services I

Aim:
To give an understanding of the principles of electrical and telephone services and illumination.

Synopsis:
A study of the theory and installation in buildings of engineering services associated with electrical services and illumination.

ARA543 Building Services II

Aim:
To generate an understanding of the principles of various building services.

Synopsis:
Building Services II - Study of theory and installation in buildings of engineering services associated with lifts, escalators, and fire protection.

Building Services III - Study of theory and installation in buildings of engineering services associated with noise transmission, vibration, and acoustical treatment.

BTB408 Building Services 1

Aim:
To develop an understanding of domestic building services and their integration in the design and construction of small buildings.

Synopsis:
Supply, connection and reticulation of electricity, gas, water and telephone services and relevant outlets and appliances.
- sewerage, sullage and stormwater drainage as applicable to domestic buildings
- domestic waste disposal

BTB508 Building Services 2

Aim:
To develop an understanding of mechanical electrical and hydraulic services and their integration in the design and construction of major buildings.

Synopsis:
Hydraulics - water supply - plumbing - drainage

Fire Services - sprinklers, alarms, extinguishers, emergency systems
Electricity - supply, substations, switchboards, metering, reticulation
Vertical Transportation - lifts, escalators, hoists

BTB608 Building Services 3

Aim:
To develop an understanding of mechanical, electrical, electronic and special services and the integration in the design and construction of major buildings.

Synopsis:
Air conditioning and Mechanical Ventilation: system types, plant, plant rooms, reticulation, outlets
Communication: telephone, television, etc.
Computers
Lighting: levels, calculation, design
Special Services
Energy Management

BGB013 Building Services I - HVAC

Aim:
The main thrust is to develop an understanding of the components of each system and the problems associated with their construction and installation. How they affect the design and cost of various building elements and types and designs. The student should have sufficient theoretical knowledge to appreciate the application of a particular system.

Synopsis:
Minimum standards of ventilation required by the Regulatory Authorities - Fans, centrifugal and axial flow and their applications. Ductwork, details of layout construction and installation; ductwork accessories - dampers, grilles, methods of support, fire protection, insulation, construction and installation.

Requirements for human comfort in air conditioning. The ASHRAE Comfort Chart; the principles of refrigeration by vapour compression and absorption. Types of air conditioning systems and their composition; application, construction and installation of packaged units, central systems, chilled water, fan coil systems and high pressure systems etc. Cost of air conditioning.

Heating - space and water heating by electricity, gas, fuel oil, solid fuel, solar energy, calorific values, efficiency, cost of fuels, capital and annual cost, construction and installation.

Effect of Building Ordinances on design and installation of air conditioning and ventilation systems. Space requirements and plant room location.

Textbook:
Faber, O. and Kell, J.R., 'Heating and Airconditioning of Buildings', Arch. Press.

BGB014 Building Services II - Electrical

Electrical Services in Buildings

Aim:
The main thrust is to develop an understanding of the components of each system and the problems associated with their construction and installation. How they affect the design and cost of various building elements and types and designs. The student should have sufficient theoretical knowledge to appreciate the application of a particular system.

Synopsis:
Electricity supply and distribution. High and low tension supply. Standardization of voltage and tariff arrangement. Measuring current, cut-outs, intake and distribution. Internal distribution. Large supply installation, sub-station. Fuse

gear and switch gear.

Wiring systems and circuits. Conduit and cables - types, sizes, rating, covering. Arrangement of circuits, layout, number of points, fuse positions. Loading of cables, looping-in wiring system, joint boxes, multi-box switching. Heading circuits. Earth connections.

Protection of conduit, conductor and accessories against mechanical damage, weather, dampness, fire, electric shock.

Assessment of maximum demand and voltage drop. Earth tests.

Tools and tool equipment - pulleys, winches, cutters, bending tools, handling equipmment. Fastenings and supports and installation methods of conduit, steel ducting, junctions, jointing, feeding.

Measurement and control equipment - meters, switches, switch gear, circuit breakers, starters, thermostats. Accessibility and protection.

Lighting equipment - lamps, tubes, reflectors, spacing and mounting. SAA Code.

Artificial Lighting.

Domestic and Industrial and Commercial Appliances - heaters, stoves, fans, boilers, transformers, motors, welding, charging, cranes, hoists, refrigeration, lifts, etc.

Bus bar systems, raceways and fittings.

Testing and fault locating - continuity, earthing, connection and acceptance tests.

Special situations - electrical installation.

Textbook:

'S.A.A. Wiring Rules', Standards Association of Australia.

K. Pethebridge and W. Williams, 'Australian Electrical Wiring Theory and Practice', Vols. 1 and 2.

BGB443 Building Services III

Lifts and Ancillary Services

Aim:

The main thrust is to develop an understanding of the components of each system and the problems associated with their construction and installation. How they affect the design and cost of various building elements and types and designs. The student should have sufficient theoretical knowledge to appreciate the application of a particular system.

Synopsis:

Transportation of People and Goods - Passenger, goods and service lifts - planning disposition, electric and electro-hydraulic, control systems, power door, indication, alarm and intercommunication systems, bodywork, guides and shoes, safety gears, regulatory requirements, approximate traffic calculations. Escalators and moving walks - use, widths and ratings, regulatory requirements, angles, balustrading, supports.

Selective vertical conveyors. Mechanical car parking. Planning and scheduling of lift contracts, requirements, reducing installation time, ancillary building work, lift wells. Use of lift by Builders. Australian standard Lift Code and special provisions required in a building housing a lift. Cost of lifts and their effect on the cost of buildings.

Fire Protection - Sprinklers, detectors, alarms, extinguishers.

Telephone and Sound Systems - PMG systems, intercommunication, record player, tape recording, microphones, loudspeaker systems, PABX, Room requirements.

Intrusion Alarm Systems - Audio, ultrasonic, capacitance, photoelectric systems, perimeter protection.

Clocks and Time Systems - Master clock, minute impulse, central dual motor clock and electronic controlled clock systems.

Swimming Pool - Water filtration and heating.

Acoustics

Fundamental Concepts - Sound pressure, power intensity, decibels and decibel addition. Frequency spectrum weighting, NR curves, sound measurement.

Sound Propagation Outdoors - Inverse - square law, points -v- finite size sources, reflecting surfaces, barriers.

Sound in Enclosed spaces - Diffusion, reverberation, direct and diffuse field calculations, absorption, noise modification by absorption, typical absorbent materials.

Sound insulation - Sound transmission loss, STC, double layer partitions, leakage, non uniform construction.

Noise in Buildings - Acceptability criteria, typical noise problems, privacy. Air-conditioning noise calculations.

Noise and the Law - Hearing damage, community annoyance.

ARB140 Building Surveys and Measured Drawings

Aims:
To develop skills in surveying, measuring and recording existing buildings.

Synopsis:
The course will consist of a series of lectures and exercises both in the studio and in the field. Instruction in techniques of measuring and recording existing structures including the use of tapes, levels, photography and photogrammetry, and the recording, storage and retrieval of information.

BTB655 CAD for Industrial Designers

Aim:
To develop 2D CAD skills and introduce 3D models and their use as a design tool.

Synopsis:
2D CAD used for the development of design concepts through to technical drawings. Evaluations of projects and their evolution through studies undertaken with 3 dimensional CAD, both wire frame and shaded.

ARP642 Case Studies

Aim:
To develop students ability to evaluate the design aspects of manufactured products.

Synopsis:
This subject consists of a series of seminars dealing with case study evaluation by practicing designers; study of different evaluation methods and techniques; the application of evaluation methods through individual case studies. All design factors of manufactured products are evaluated in-depth.

BGP427 Case Studies

Aims:
To analyse and develop solutions for selected topics and problem areas commonly found in the project management of development projects. These topics will be in the form of case studies, be real or hypothetical exercises which

will attempt to encompass and integrate the material presented in the other subjects in the course.
On completion the student should have a better understanding of how to define the nature of a problem, state the performance criteria required, and the technological and management aspects involved. A methodology should be suggested to solve the problems and a logical report prepared.
A significant input from industry specialists is anticipated to provide background material as well as to directly participate. Special emphasis will be given to new techniques and advances in technology.

Synopsis:
Development projects will be established stating the objectives of the client. Alternatively, managerial problems which have or may occur within a major project may be identified. The group will then further define the problem, establish the performance criteria, develop a recommended method of approach to solve the problem and then present their findings both orally and in written form. The results of all projects must be measurable against the project objectives.
Role play exercises may be employed to facilitate understanding of the problems and issues involved.

Assessment:
Reports.

CEB701 Civil Engineering Quantities I

Aim:
To develop and reinforce the basic skills in the measurement of Civil Engineering Quantities.

Synopsis:
Civil Engineering Quantities I - Introduction to the measurement of Civil Engineering works based on the study of SMM of Civil Engineering Quantities. Detailed study of construction methods, plant, specification and measurement of:

Earthworks - clearing, levelling, borrow, compaction, control tests, quarries and dredging etc.
Roadworks - survey, clearing, bulk excavation and filling, pavement construction, kerbing, culverts, stormwater.
Bridges - types of structures, foundations, prestressed concrete.

Brief introduction to computer applications such as earthwork calculations, bridge reinforcement etc.

Textbook:
Australian Standard A1181, 1971, 'Methods of Measurement of Civil Engineering Quantities'.

CEB801 Civil Engineering Quantities II

Aim:
To develop and reinforce the basic skills in the measurement of Civil Engineering Quantities.

Synopsis:
Further study of S.M.M.M. of Civil Engineering Quantities leading to measurement of:

Foundations - pad footings, piles and piers.
Bridges - further study, including abutments, superstructure, approach embankments, safety structures etc.
Wharves - over water work, deck structures etc.
Specialised Earthworks - tunnelling, dredging, quarrying, open cuts, earthworks, earth dams.

Textbook:
Australian Standard A1181, 1971, 'Methods of Measurement of Civil Engineering Quantities'.

CMB134 Communications

Aim:
To train students to communicate effectively with the public and with their peers by developing the skills of reading and writing and spoken communication with special reference to professional and administrative contexts.

Synopsis:
Theory of Communication: processes, variables, effects. The Library Paper: preparation and presentation of research papers. Instructions and Process: explaining how to do something. Description of Mechanism: explaining how something works. Description: practical applications. Definition: explaining what something is. Analysis: putting things in sequence. Analysis: answering why. Business Correspondence: objectives, format. Business Correspondence: composition. Report Writing: planning, preparation. Report Writing: presentation, editing. Writing Summaries. Visuals in format writing. Applications and Revision. Speech Preparation: choosing a subject; Speech content; Interviewing; Oral style; Vocal communication; Visual communication; Speech assessment; Listening skills; Speaking to inform; Speech assessment; Speaking to persuade; Audience analysis; feedback; Discussion techniques; Revision; Speech assessment.

BTB648 Community Services

Aim:
To familiarise students with the provision, organisation, and administration of community services other than public utility services.

Synopsis:
Definitions and concepts, historical perspectives, and measurement of community needs in relation to social infrastructural systems and services; health and welfare, education, law/order and safety, open space and recreation, cultural, administration, and communication. Planning objectives for service provisions and maintenance, siting requirements, design considerations, environmental considerations, recent trends and developments.

LPP351 Comparative Planning Theory

Semester 5 (Part-time)
Semester 3 (Full-time)

Aims:
To identify a range of approaches to physical planning and to compare the political and philosophical origins, professional methods and social and environmental effects of a series of examples of planning drawn from other countries and states.

Synopsis:
Different clients of planning (public, private, corporate, individual); the roles of planners (technical, bureaucratic, statutory, pluralist, advocate, consultant); different models of planning at different scales and in different contexts, National, regional and local planning; planning under different economic and social conditions: free market, centrally-planned, indicative, directive, interventionist, participatory.

LPP335 Computer Applications in Planning

Semester 3 (Part-time)
Semester 3 (Full-time)

Aims:
To apply the knowledge and skills acquired in Introduction to Computers to urban and regional planning.

Synopsis:
The course will deal with four main areas of computer usage in urban and regional planning:
Information storage and retrieval: sources of information and data bases (census, local surveys, networked data bases, etc). The use of information in decision-making. Manipulation of information by use of statistical packages (specifically SPSS and 1022).
Computer-aided Design and Drafting (CADD): The use of PALETTE and GDS on the QIT's facilities, including 'hands on' experience with drafting, digitising etc. The specific use of graphic aids in urban design, and the use of Land Information Systems.
Micro-computers: The use of APPLE and IBM PC. Applications of software, including graphics, data bases, mapping, business packages (possibly including spread-sheets and CPM as business aids).
Planning Techniques: Will include the use of programs developed in the Department and will be linked to material being taught in other current subjects in the course.

LPP354/364 Concentration: Urban Development and Design
LPP355/365 Option Project: or Planning in Developing Countries
LPP356/366 Concentration: Regional Development Planning
LPP357/367 Option Project: or Implementation and Management

Synopsis:
These courses and related projects provide students with an opportunity to apply the knowledge and skills which they have acquired in the earlier parts of the course to a specific area of planning practice. The Department of Planning and Landscape Architecture has currently identified the subjects listed above as major areas of current interest and relevance from which final year concentration courses and related projects may be selected.
The concentration courses comprise lectures and seminars exploring general issues related to the topics selected in advance by students and approved by the Head of Department for their final semester Special Planning Studies.
Option projects are devised by staff to apply and develop existing knowledge and skills in the identified areas of specialisation, currently Urban Development and Design and Regional Development Planning.

BTN301 Conservation and Re-use in Urban Design

Aims:
To consider conservation principles and practice in the urban context, including the modification of existing fabric for re-use.

Synopsis:
Conservation of urban landscape, townscape, and urban structures will be considered. Specific topics will include conservation criteria (historical, aesthetic, environmental, sociological), conservation principles, evaluation for level of conservation on social and economic bases, conservation issues (private ownership, equity, acquisition, compensation, incentives), existing Australian and other heritage guides, conservation organisations, conservation methods, examples of urban conservation.

BTB305 Construction I

Aims:

1. To lay the basis of an understanding of structures relevant to the various design disciplines.
2. To provide students with the technical knowledge necessary for the design of relevent simple structures.
3. To demonstrate the interaction between the topics dealt with in Design Science and the construction process.
4. To develop further skills in technical communication relevant to the various design disciplines.

Synopsis:

ARC Strand:

The course will consist of lectures and studio work. Lecture topics will include: introduction to common building materials, their properties and behaviour in use; the building as a system; technical innovation and its influence and design and performance; the influence of occupancy, environmental factors, materials and erection procedures in the choice of a construction method; elements of the small building and their function in the building system; historical and contemporary methods of constructing small timber framed and masonry buildings. Studio work will consist of exercises in construction drawing related to the lecture topics. Lectures and studio work will be complemented by site visits and workshop practice.

IND Strand

The course will consist of lectures and studio work. Lecture topics will include: metals, glass, ceramic, wood technologies in relation to product construction. The relationship between the properties of materials and the industrial processes available for their fabrication. Applications of the study of materials, processes and their fabrication to product design including product development, systems and specifications for manufacture will be the subject of studio exercises.

LAP Strand

The course will consist of lectures and studio work. The subject is divided into two distinct segments;

1. Grading

Understanding land form, gradients, and manipulation of land surfaces by grading for level changes, surface drainage and erosion control in a variety of built environment situations.

2. Materials and Uses

Understanding the properties of common construction materials and their application in simple structures such as fences, decks, pergolas, paving and the like.

DES Strand

The subject will consist of lectures and studio exercises complemented by site visits and tutorials. Lectures will deal with construction systems, fabrication and joining and material limitations. Tutorials will focus on material properties. Studio work will apply this information in the design of basic enclose, highlighting where interior design merges with architecture.

BGB330 Construction I

Aims:

1. To foster an awareness of the peculiarities of building as a non-repetitive industry and the effects of policies in the housing industry.
2. To introduce students to basic concepts of construction related to the School's professional areas through an element approach.
3. To encourage construction development through associated workshop and practical exercises.

Synopsis:
Section A - An illustrated review of small scale building throughout Australia. The Australian housing industry. Building standards and regulations - historic perspective and current dilemma. Analysis of foundation soils. Interaction of soils and structure. Drainage systems. Gap spanning systems and details. Canopy support systems. Non stressed, element stressed, and total stressed skin structures.

Section B - A fundamental approach to theory and workshop practice, engineering drawing, modelling, and product construction and manufacture.

Section C - Studio and Workshop projects relating directly to A and B.

BGB151 Construction I
BGB154 Construction II

Materials and Methods

Aim:

1. To develop an understanding of the properties of materials, and how they behave in the manufacturing and construction process and how these considerations relate to form and structure.
2. To provide a studio and practical back-up to the lecture program. Students will be required to prepare working details of building components, coordination of building elements for specific building use.

Synopsis:
Study of the uses of materials and construction in single and two storey domestic structures under the elements outlined.

Such structures to be examined with regard to the environmental, structural and aesthetic requirements and taking account of the constraints such as costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements.

Site Information: Land tenure and terminology, site maps and scales, contours and contour plans, drainage and water supply.

Site Investigation: Ground investigation including necessary excavations, boring, drilling, sampling and testing. Investigative technique, reporting and interpretations of data.

Work Below Lowest Floor Finish: Foundation materials, site investigation and foundation movement, foundation types - piers, pier and beam, strip, planking and strutting, placement of reinforcement -foundation walls and rat walls including damp proof courses, concrete slab on ground construction, filling and sub-soil drainage, moisture barrier and damp-proof membranes, termite treatment, timber framed ground floors, simple reinforced concrete suspended floors.

Columns: Steel and reinforced concrete.

Staircases: Timber framed - open and closed strings, simple reinforced concrete, balustrading and handrailing.

Upper Floors: Timber framed first floors including timber movement and timber fasteners.

Roof: Roof construction - traditional or pitched, flat and low pitched, and trussed roofs - including ceiling construction, fascias, barges and soffit treatments, rainwater goods. Roof coverings - tiled, shingle, flat G.I., tray roof sheeting, asbestos cement.

External Walls: Timber and steel framed, load bearing brickwork and blockwork, external claddings including brick and block veneer, lintols and flashings, fireplaces, flues and hearths, wind damage.

Windows: Timber windows, frames and sills, aluminium and plastic windows.

External Doors: Timber doors and frames, linings and architraves, garage doors and frames - overhead and roll up.

Internal walls: Timber and steel stud framed and load bearing brick and blockwork, lintols and damp courses.

Wall Finishes: Finishes to clay brick and concrete blocks, off form finish to concrete, applied render finish, sheet linings -Asbestos cement, hardboard, plywood, fibrous plaster, timber boarding, papering, tiling and painting.

Floor Finishes: Vinyl sheet and tiles, lino, cork, rubber, carpet, quarry and ceramic tiles, terrazzo - precast and cast in situ, wood block.

Ceiling Finishes: Sheet linings and manholes.

Draughtsmanship

Aim:
To provide the student with the necessary training and practice to develop their drawing skills to enable them to communicate effectively.

Synopsis:
The various drawing instruments and appliances. The scales generally used in the preparation of drawings of land and building. Types and sizes of drawing and tracing paper in common use. Freehand sketches and drawings to scale. Orthographic and isometric projection. Finishing of drawings, inking, hatching, lettering and colouring in accordance with standard architectural practices. Description of typical working drawings. Methods of enlarging, reducing, photocopying and reproducing.

Environmental Science

Aim:
To make students aware of the factors and technology that are involved in creating comfort situations for man in varying climatic zones, and their effect on building construction.

Synopsis:
Considerations of temperature precipitation, humidity and air movements on shelter needs. Climate classification. Historical and contemporary utilisation and control of the physical environment. Elements of meteorology and bio climatology.

Data collection, analysis and evaluation to meet the designers needs. Physiological and behavioural responses to the thermal environment. Assessment of comfort and comfort indices. Geometry of shade; Solar drafts; Shadow angle calculation; Solar protection and control; Microclimate influence of erosive factors; the particular case of the tropics. Heat exchange; Steady and unsteady state; Solar radiation; Transfer of moisture; Condensation; Thermal properties of materials; Theory of insulation; Functional efficiency of the building system. Thermal loss and gain in buildings; Computation; Constructional methods and alternatives; the effect of materials choice; basic arrangements of building spaces and mass.

The principles of heating, cooling and ventilation; the conditioning of the air; generation and distribution of conditioned air; influence of technology on the design concept; future development. The problems of climatic control in Australia; Survey of extreme conditions and design alternatives; Constraints of ordinances, regulations and codes. Climatic amelioration by natural features -water, vegetation, topography.

Evolution of Building

Aim:
To make students aware of the devleopment in building techniques and systems of construction.

Synopsis:
A study of civilisations from prehistoric to modern times examining systems of construction and their relationship to building techniques.

Applied Technical Drawing

Aim:
To develop communication skills and competance in construction, draughting and detailed drawing.

Synopsis:
Studio application in all forms of construction drawing and detailing. Material will be covered in lectures and tutorials. Evaluation will be based on evidence of technical skills and understanding through studio assignments and examination.

Site Visit/Workshop

Students will gain greater practical experience through
- supervised site and industrial visits
- workshop sessions involving model making and basic trade skills
  or
- individual construction observation books, case studies etc.

BGP421 Construction and Property Management

Aims:
To introduce students to building management concepts and applicable organisation theories with emphasis on new developments and current research. To introduce students to the concept of property management of completed development projects.

Synopsis:
Building Management:
Building Management Systems. Role of the manager, functions and responsibilities. Ethical aspects. Manager as an entrepeneur and administrator. Concepts of authority and power.
Organisation theories and effectiveness. Individuals within the organisation, delegation, job specifications and interdependant responsibilities. Contractor, consultants, manufacturers and subcontractor multidisciplined system.
Motivation and interpersonal skills. Review of basic principles and concepts. Specific difficulties associated with multidisciplined environment and the subcontractor construction system.
Tender procedures and negotiations, control documentation: Contractor selection. Risk and liabilities of parties. Insurances and bonds.
Pre-commencement and Contract Administration. Material and Components: Tolerances, Assembly and Performance specifications. Buildability and Productivity. Mechanisation and Material Handling. Temporary Works. Construction methods, systems and economics.
Site management; layout and concepts of material handling. Quality Control Methods; Review of statistical method. Post-Construction Services; Hand over and commissioning. Maintenance and tero-technology.

Property Management:
Role of the property manager. Commissioning, development performance, maintenance and repairs, replacement and obsolescence, insurance, security and cleaning.
Management feedback of performance appraisal for future design management, marketing and cost in use studies. Financial implications of property management on the economic analysis of the overall project.

Assessment:
Assignment and final examination.

BTB405 Construction 2

Aims:

1. To extend and reinforce understanding of buildings and products as socio-technical systems.
2. To develop the knowledge and understanding of production techniques necessary for design.
3. To develop the ability to solve the technical problems of design.
4. To reinforce the links between construction, other technical subjects, and design.
5. To provide further practice in the skills of technical communication.

Synopsis:

ARC Strand

The course will be conducted by the case study method, with lectures and studio work. Case studies will be selected to develop understanding of construction in breadth and depth. Each case study will be introduced by lectures explaining the system characteristics of the problem, the human and environmental factors which constrain the solution, and the technical systems which have been developed to deal with problems of this type. Students will then develop their own solution for a particular case in the studio. Lectures and studio work will be complemented by field studies and workshop practice.

IND Strand

The course will consist of lectures and studio work. Lecture topics will include application of principles of engineering mechanisms to products/systems in current technology. Analysis of the performance of mechanical, electrical, hydraulic and pneumatic mechanisms in relation to product evaluation and performance criteria. Application of engineering mechanisms and product performance check lists to design problems will be the subject of studio exercises.

BGB430 Construction 2

Aims:

1. To continue basic concepts of construction related to the School's professional areas through an element approach.
2. To examine applications related to product and associated construction.
3. To continue construction development through associated workshop and practical exercises.

Synopsis:

Section A - Wall systems - performance, design and manufacture. Floor systems -performance, design and manufacture. Interaction of site works and structure. Surface coating systems. A formalised approach to performance specification. Site Management problems and solutions.

Section B - Applications of mass production, modular systems, workshop layout and management, economics and the effective use of intermediate and appropriate technologies.

Section C - Studio and Workshop projects relating directly to A and B.

BGB253 Construction III
BGB254 Construction IV

Aim:

1. To develop an understanding of the properties of materials, and how they behave in the manufacturing and construction process and how these considerations relate to more complex and advanced forms of construction.
2. To provide a studio and practical back up to the lecture program. Students will be required to prepare working details of building components,

coordination of building elements for specific building use.

Synopsis:
Study of the uses of materials and construction of a range of structures not covered in year 1 which will progress in scale from single to multi storey buildings under the elements outlined below.

Such structures to be examined with regard to the environmental, structural and aesthetic requirements and taking account of constraints such as costs, dimensional requirements, statutory regulations, life, adaptability, manufacturing and erection requirements.

Substructure: Single storey or partly submerged basement foundations, excavations, waterproofing. Raft, pier and pile foundations. Excavation equipment.

Columns and Upper Floors: Reinforced Concrete - Formwork, steel and concrete in one and two way systems. Structural Steel - Hot rolled and cold formed members. Composite construction, metal decking. Precast Concrete - Frames, load bearing wall, standardized components, screeds. Prestressed construction.

Staircases: Steel, insitu and precast concrete. Ramps. Balustrading and handrails.

Roof: Beams and slab, lattice girders, trusses, portal frames, space frames, shell roofs, folded plates, arches, tension structure and cable stayed roofs. Roof lights, patent glazing. Parapet and balustrades. Coverings - Lightweight decking, sheet roof, built up membranes, asphalte, finishes. Rainwater goods - gutters and downpipes.

External walls: Masonry and loadbearing and panel construction. Sheet cladding, steel, aluminium and asbestos cement. Precast concrete cladding, tilt up construction. Curtain walling, shop fronts and suspended glass assemblies.

Windows: Aluminium, steel, stainless steel windows. Remote control operated windows. Flyscreens, grilles etc. Sun Protection and shading. Double glazing.

External Doors: Industrial horizontal and vertical sliding, folding and roller shutter doors. Toughened glass, aluminium glazed side hung and sliding, manual and automatic controls.

Internal Walls: Moveable walls, tracked, portable panels. Wire screens. Toilet partitions. Metal and timber stud partitions. Demountable.

Internal Doors: Side hung, sliding, fire and sound resistant doors and frames. Roller grilles. Ironmongery.

Wall Finishes: Stone lining. Tiled and sprayed finishes.

Floor Finishes: Precast concrete, brick and stone paving. Exposed aggregate. Conductive and anti-static flooring. Cavity, spring and sound proof flooring. Open metal grid, floor ducts.

Ceiling Finishes: Fire ceilings, spray finish. Flat, profiled, integrated and decorative suspended ceilings. Suspension and framing systems.

Fire Protection: Grading, load and resistance. Combustible material. Fire resistant construction and equipment. Means of escape.

Fittings and Furniture: Desk, bench, cupboard and wardrobe construction, display cabinets, seats, mirrors, crush barrier.

Special Equipment etc.

Site Visits/Workshops

Students will gain greater practical experience through:
- supervised site or industrial visits
- workshop sessions involving model making and basic trade skills
  or
- individual construction observation books, case studies, etc.

Applied Technical Drawing

Aim:
To develop communication skills and competence in construction draughting and detailed drawing.

Synopsis:
Studio applications in all forms of construction drawing and detailing. Material will be covered in lectures and tutorials. Evaluation will be based on evidence of technical skills and understanding through studio assignments and examination.

LPP115 Contract and Management Practice

Aim:
To provide detailed practice information.

Synopsis:
(a) Contract Practice. Systematic procedures and strategies for design implementation; specific examples of contract law, forms of contract, contract conditions, tendering, contract documents, contract administration; site administration, project control and management, post-contractural responsibilities; evaluations of practice methods and problems of completed projects.
(b) Management Practice. Study of market research, advertising and public relations; marketing audits, strategies and programmes. Office management and practice; office composition, records, procedures, accounting. Nature of business. Budget estimates, quotations, rates, cost effectiveness, financial management. Time management and control. Future of relevant computer technology: systems, availability, costs, and directions.

Material will be covered in tutorials and seminars. Evaluation and assessment will be through seminars, job file, and management file.

BGB646 Cost Planning and Cost Control

Aim:
To examine the concept of cost-control during the design process.

Synopsis:
The significance of construction economics for the client, the professions, the industry and society.

The Concept of Cost Control - Historical development of cost control processes; need for cost control; main aims of cost control; the importance of building; building output and cost; tendering arrangements; comparison of cost planning and approximate estimating; cost control terminology.

Cost Implications of Design Variables - Plan shape; size of building; perimeter/floor area ratios; circulation space; storey heights; total height of buildings; relative costs of flats and houses; implications of variations in the number of storeys of costs of flats and houses; implications of variations in the number of storeys of buildings, column spacings; floor spans; floor loadings.

Functional Requirements and Cost Implications of Construction Methods - Low and high rise buildings; substructures; structural components; walling; roofs; flooring; doors and windows; finishings; service installations; external works; Influence of Site and Market Conditions and Economics of Prefabrication and Industrialisation - Effect of site conditions on building costs; use of plant; market considerations; cost implications of pre fabrication and standardisation; industrialised building methods; problems with industrialised buildings; economics of industrialised building; the future in industrialised building.

Approximate Estimating - Purpose and form of approximate estimating techniques; unit method; cube method; superficial or floor area method; storey-

enclosure method; approximate quantities; elemental cost analyses; comparative estimates; interpolation method.

Cost Planning Theories and Techniques - Plan of work; cost control procedure; information required by architect and building client; role of the quantity surveyor during the design stage; cost planning techniques; cost planning of mechanical and electrical services; the application of computers to cost control work; cost control during execution of job.

Cost Analyses, Indices and Data - Cost analyses; standard form of cost analysis; cost yardsticks; building cost indices; application and use of cost analyses; cost data; cost research.

Practical Application of Cost Control Techniques - Worked examples covering the preparation of a preliminary estimate, first cost plan, and cost checks and cost reconciliation during the design process; conclusions; cost control of engineering services.

Costs in Use - Concepts of cost in use; cost in use terminology; current and future payments; maintenance and running costs; the life of buildings and components; cost in use examples; prediction errors; effect of taxation and insurance; maintenance cost records.

LPP189 Cultural Values and the Landscape

Aim:
To extend understanding of and provide investigation into cultural values and their effects upon the landscape.

Synopsis:
Attitudes towards the landscape and the resultant development of landscape form and conscious landscape design in Australia: pre-European settlement and its attitudes towards and effects upon the form of the Australian landscape; the changing landscape since European settlement with emphasis on the twentieth century period; historical relationships between architecture and landscape; landscape design traditions, directions, and trends.

Lectures, seminars and field excursions may be held. Evaluation and assessment will be through participation and either report or seminar.

ARB402 Decorative Crafts

Aim:
To develop awareness and understanding of the aesthetic and practical possibilities of the decorative crafts for interior design.

Synopsis:
The course will consist of lectures, field studies, and studio and workshop exercises. Lecture topics will include: General principles of ornamental design; decorative metalwork; stained glass; decorative ceramics; plasterwork; carved and inlaid woodwork; lacquer work; printed fabrics and papers; tapestry and embroidery.

ARP511 Design I
ARB493 Design I

Aim:
To guide students through built environment problems which become progressively more complex.

To study the preparation of accurate and concise briefs and apply the knowledge to current design projects.

To assist students to develop a rational approach to design methodology through lectures, case studies and application to current problems.

To demonstrate the importance of the carefully considered integration of structures and services into the total design process. Lectures will be orientated around the current design problem.

To assist student appreciation of the integration of interior considerations in the building design and its integration into the landscape.

Finally, but most importantly, to stimulate student aesthetic awareness of design implications. Design as a means of life enrichment for the individual and society at large.

Synopsis:
Services, structure and construction are considered an essential part of the design process and the express aim of the course is to integrate these areas into the various design projects undertaken by students.

Lectures, seminars and tutorials will be provided during the initial stages of the project programme to give students 'knowledge parcels': Upon which they may base their conceptualisation. Specialists in the required areas will periodically be available to assist and advise in studio work and will assist in the final assessment of the project.

Design programmes will require detail drawings of the various special areas.

The instruction in services, structure and construction will include the following:

Electrical Services - Electricity supply and distribution; consumer mains and rising mains; distribution boards and large supply installations including sub-stations. Equipment including circuit breakers and switch apparatus. Wiring systems and circuits including assessment of maximum demand. Appraisal of lighting fittings and various domestic, industrial and commercial appliances.

Mechanical Services - A study of the types of equipment available for mechanical ventilation, heating and air-conditioning. The layout and space requirements of plant rooms and ductwork. Ancillary equipment.

Acoustics and Lighting - Basic concepts, the calculation and design of artificial illumination installations and the uses of daylighting standards. Acoustical measurement, noise control, transmission of airborne and structure borne sound, absorption and acoustic materials, calculation of transmission loss and control of sound. Geometric acoustics, reverberation, echoes, the design of auditoria.

Structure - Principles of structural design. Loads on buildings and load transfer. Structural behaviour and an appraisal of structural types. SAA codes.

Construction - Construction requirements for buildings of various types including a study of building regulations. Methods of construction and erection. A study of construction details including footings, assembly methods, movement joints, construction joints, frame and cladding details, roofing details, curtain walling, lift installations, fire protection, fire escape etc.

BTB300 Design 1

A. *Spaces with an individual identity:* Spaces with a single function and identifiable social meaning are explored. An introduction to functional planning is commenced.

B. *Domestic/Community facilities:* This group of problems separates the client and user group. Client types are investigated and profiled;
- the designer as the user of the space himself
- the user of a space as a client
- the client as developer of a project and a tenanted user
- client as developer of a project and casual user

Aim:
1. To introduce students to the design process in order to facilitate the capacity for application of technologies and philosophies, consistent with

encouragement of individual freedom in the forging of intrinsic and innovatory approaches in seeking design solutions.
2. To develop a systematic methodology in the sciences and arts that constitute the design process.
3. To concentrate attention on problems within specific boundaries so that students are exposed to and involved in design rather than the broader area of problem solving.
4. To instil an appreciation of design as a capability of man.

Synopsis:
Studies will follow a program combining lectures and seminars in theory related to practical studio exercises.
Design Theory: a lecture course of 1 hour/week. Topics will include: Scope of problem solving theory; Reitman's State Transformation Model; special characteristics of design problems; the task environment, the problem space, the solution space and their representation; problem difficulty, recognition and algorithmic methods; generate-and-test methods; heuristics; creativity and innovation; general psychological theories of creativity; creativity and cultural change; adaption, cultural borrowing, tentation and invention as modes of innovation; the role and importance of models in design.
The theoretical base will also encompass theories of and development in art, design and perception. Studies of design philosophies will be used as a basis for encouraging the emergence of individual attitudes towards design and creativity. The studio exercises, to which most of the in time will be devoted, will be aimed at a range of problems within specific boundaries to focus on the systematic processes of design rather than on questioning the environmental implications of these processes.
Emphasis will be placed on the development of graphic and illustrative skills thus providing a means of recording and explaining ideas by which individual capacity for thought can be developed.

ARB593 Design 2

Aim:
The general aims stated for Design I will continue in Design II. Particularly the objective of integrating structures, services, landscaping and interiors into the total design fabric.

Problems will be more complex and certain elements of Building Economics will be considered in the design process.

Design philosophy will be reinforced by visiting Lecturers.

Specialist lectures and tutorials will be given in Acoustics, Lighting and Interiors including psychological perception of space, work layout and interior landscaping.

ARB709 Design 2

Aim:
1. To develop the design process in order to facilitate the capacity for application of available technologies and philosophies, consistent with encouragement of individual freedom in the forging of intrinsic and innovatory approaches in seeking design solutions.
2. To develop a rigorous and systematic methodology in the sciences and arts that constitute the design process.
3. To concentrate attention on problems within specific parameters so that students are exposed to and involved in design rather than the broader area of problem solving.
4. To instil an appreciation of the design as a capability of man.

Synopsis:
This series will be undertaken in two parts:

A. Design - Studies will follow according to the synopsis of Design I.

B. Communication - Analysis of problems in audio-visual terms; media selection and audience analysis; practical instruction in slide-tape presentation, filmmaking, and portapak video.

ARP521 Design II

Aim:
The general aims stated for DESIGN I will continue in DESIGN II.

Synopsis:
Design problems will be of greater complexity than in ARB511 Design I. The emphasis will be on the entirety of design problems and processes; students will be offered the opportunity to submit their own items for approval and to select a tutorial group in which to pursue the work. Lectures, seminars and design tutorials will have a bias towards the abstract issues in architectural design.

ARB693 Design 3

Aim:
The detailed study of a small but complex community of buildings.

Synopsis:
The design of a major institutional complex, for example a hospital, tertiary college or civic centre. Consideration of selected elements within the project including:

planning and landscaping
environmental elements
design of furniture and fittings
interior design

LPB502 Design 3

Aim:

1. To continue the development of individual design capabilities.
2. To concentrate attention on design applications in the professional areas of Architecture, Industrial Design, Urban and Regional Planning, Landscape Architecture, and Interior Design.
3. Consistent with 2 above, to pursue study programmes that encourage interaction between these disciplines whilst clearly delineating the specific roles, work expectations, and potentialities of the professions involved.
4. To develop a synoptic view of the processes of problem definition, derivation of alternative solutions and their evaluation with particular attention being paid to the design component of these processes.
5. To encourage students to examine the roles of various professions in society preferably by way of case studies involving field work.

Synopsis:
This series will be undertaken in two parts:

A. *Design -*
As the growth of design abilities is largely dependent upon practice and experience the program will continue to maintain the major time allocation to studio and workshop exercises. Studies in theory will form an integral part but will be cross-referenced with other subject areas that give emphasis to the methodologies inherent in the roles of the professions represented by the School.
Associated subject areas are Dynamics 1, Environmental Studies 5, Building Services 2, Industrial Processes, Building Construction 1, Industrial Construction 1, Ecological Principles 1, Land Development 1, Design

Science 1, Interior Construction 2, Visual Communication 3, Product Assessment and Selection, Professional Communication, Marketing, External Services 1.

The study program will allow for the exploration of optional design topics by students.

ARB717 Design 4

Aims:

1. To continue the development of individual design capabilities.
2. To concentrate attention on design applications in the professional areas of Architecture, Industrial Design, Urban & Regional Planning, and Landscape Architecture.
3. Consistent with 2 above, to pursue study programmes that encourage interaction between these disciplines whilst clearly delineating the specific roles, work expectations, and potentialities of the professions involved.
4. To develop a synoptic view of the processes of problem definition, derivation of alternative solutions and their evaluation with particular attention being paid to the design component of these processes.

Synopsis:
This series will be undertaken in two parts:

The major time allocation will again be given to studio and workshop exercises. Studies in theory again form an integral part of Design and will be cross-referenced to other subjects such as Dynamics 2, Environmental Studies 6, Building Construction 2, Industrial Construction 2, Building Services 3, Ecological Principles 2, Land Development 2, Interior Construction 3, Visual Communication 4 and External Services 2.

All students will pursue the same program providing specific inputs but with a limited range of specialisation through research studies and field exercises associated with the studio projects.

ARA125 Design Appreciation I (a)
ARA225 Design Appreciation I (b)

Aim:
To build up in the student a sensitive appreciation of aesthetic design in the Built Environment. To develop an awareness of problem solving techniques and decision making processes.

Synopsis:
The nature of design in the Built Envirornment. Principles of Aesthetic Composition. Theories of problem solving by Research, Analysis and Synthesis. The design brief, plan design, application of principles of design to Building, Landscape and the general Built Environment.

Projects for library and other research, and a variety of design problems will be done during the series.

ARA343 Design Appreciation II

Aim:
To promote a sound basis for the practical approach to design in the Built Environment.

Synopsis:
Anthropometrics and Ergonomics as applied to Design in the Built Environment. The effect of Structure and Materials in overall design. Use of various media for presentation techniques, including photography, clay modelling and model-making.

ARA527 Design Appreciation III

Aim:
To ensure that students have an appreciation of the total elements affecting design in the Built Environment.

Synopsis:
Application of Design Principles to solution of modern building forms, including use of traditional and newer materials.

Involvement of subjects treated under Building Services and Building Construction in Design exercises.

BGP417 Design Management

Aim:
To provide the student with an understanding of the nature of design and a knowledge of all factors which influence the process of design.

Synopsis:
Planning, managing and controlling the design process from inception to detail documentation.
General nature of the design process; optimising vs. satisfying.
Influence of the client organisation on the design process; decision making structures; conflict and its resolution; recording and recovery of information.
Decision sequences in design; network planning of decision; co-ordination of client and consultant information.
Appreciation of the consequence of design decisions on the total project. The interrelationships between architectural design and engineering and services design requirements. Co-ordination of process and service engineering design segments. Energy studies and consultants responsibilities for the approval process and timing. Use of case studies and specialist lecturers to illustrate above.
Briefing and briefing techniques; use of case studies to establish data base; check lists; room data sheets; flow charts; association matrices; network representation.
Fast-tracking and related methods; advantages and disadvantages.
Change; sensitivity analysis and copying strategies.
Cost control in the design process; system economy vs. item by item economy; substitution; AIDA (Analysis of Interconnected Decision Areas), and CSAA (Collaborative Strategy for Adaptable Architecture) and related techniques.
Design costs; fee/man hour distribution and control; project staffing; space requirements.

Assessment:
Reports and Examination.

ARP652 Design Management and Decision Theory

Aim:
1. To understand the role of management in defining a design problem
2. To understand the principles of decision theory as applied to design management
3. To understand factors influencing the management of the design process.

Synopsis:
This subject consists of series of lectures and seminars. Lectures to cover: meaning of the design process, control and the design process, complexity of design problems, types of contracts, design and business, project team, design responsibility and design management, design documentation, concept of design evaluation and management action, application of decision theory to design management.

BTB307 Design Science 1

Aim:
To develop a scientific approach in design.

Synopsis:
A study of the principles of science and their implications on the design of buildings and spaces. The application of these principles in the conceptual stages of design allowed by laboratory tests and computer evaluations of design proposals. The subject is divided into a series of modules, each related to potential studio design exercises.

Module A - The principles governing quantity and quality of light and daylight in buildings. Manual and computerised calculation of daylight factors. Testing of model interiors in artificial sky.
Module B - Solar variation, solar loads, solar paths and solar charts. Design for sublight and shade. Manual and computerised projection of solar shadows and reflections. Testing of models on heliodon.

BTB407 Design Science 2

Continuation of the aims and principles as described in Design Science 1.

Module C - Basic design for hot humid climates. Principles governing air flow through and around buildings and spaces. Natural ventilation. Introduction to airflow in cities. Testing of airflow through and around models.
Module D - Basic design for hot arid climates and for cold climates. Macro and micro climatic conditions and their evaluation for design. Manual and computerised climatic evaluation.

ARB599 Design Science 3

Continuation of the aims and principles as described in Design Science 1.

Module E - Thermal performance of buildings. Energy conservation and low energy design. Calculation of heat flow and indoor temperatures under steady state and fluctuating conditions. Quantitative monitoring of thermal performance of building elements.
Module F - Principles governing control of noise and good hearing conditions in buildings. Basic acoustic design of auditoria. Calculation of reverberation and noise reduction.

ARB607 Design Science 4

Continuation of the aims and principles as described in Design Science 3.
Module G - continuation of module E (thermal performance of buildings).
Module H - artificial lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, and external lighting.

ARB193 Design Studies I
ARB194 Design Studies 2

Aim:
To introduce students to an awareness of design across a wide spectrum.

Synopsis:
Perception, development of awareness, a broad-based approach to design including graphics, film, fabrics, industrial design, perception and design of spaces.

The abstract tools of design, colour, design in nature, the design processes, symbolism. An introduction to ergonomics and anthropometrics.

ARB293 Design Studies 3
ARB294 Design Studies 4

Design and Studio I and 2

Aim:
To introduce students to methods of approach to problems in the built environment and to the nature of some of the general parameters, such as social values, and their influence on problem solution and evaluation.

Synopsis:
Lectures, discussions and background reading on methods of research, vertical and lateral thinking, the nature and essentials of design, primary and secondary creativity. Design studio exercises incorporating these themes. Practice written, spoken and graphic assignments to develop fluency of ideas and presentation.

Design Presentation 1 and 2

Aim:
To introduce students to various techniques for presenting work and their applications. To introduce students to the use of clay as an aid to three-dimensional design.

Synopsis:
Design Presentation I - Various mmedia for presentation of projects: application of techniques and skills already gained, model-making, photography, visual aids.

Design Presentation 2 - Clay modelling. Form studies with a plastic material. Making of moulds and reproduction of forms. Introduction to work in fibre-glass and other modelling materials.

ARB393 Design Studies 5
ARB394 Design Studies 6

Design Studio 3 and 4
Aim:
To develop design abilities in a program of architectural (and related) design problems.

Synopsis:
A program of architectural problems and small group projects which combine practical constraints in design; in particular environmental considerations and the need for ergonomic studies in detailed planning. The orderly development of solutions which embrace all aspects of the problem.

Design Theory I and 2
Aim:
To develop a personal process of assimilation, evaluation and problem analysis.

Synopsis:
Briefing as the basis of problem identification and analysis. Examination of various methods. Analysis of case studies. Computer-aided design.

LPP125 Detailed Landscape Design

Aim:
To develop and sharpen skills in design within limited time constraints.
To consolidate and integrate knowledge and skills from related support subjects with particular emphasis on planting design and land use strategies.
To consolidate and extend knowledge and skills in detailed design and resolution.

Synopsis:
Practical landscape design problems and application of increased scope, complexity and constraints; small to detail scales within a progressive range of project type offerings.
Project involvement in urban and suburban contexts with a focus on a mix of

quick esquisse type problems and longer more detailed types; projects will highlight planting design and issues of plant tolerance, selection, availability, maintenance etc. Grading will also be emphasised.
Emphasis will be on developing aspects of design to design development stage and standards with involvement in detailed design resolutions.
A selected project from this studio will act as a vehicle to be taken to working drawing stage in LPP135 Methods and Techniques 5.
Studies will follow a programme combining lectures and seminars in relating relevant theory, methods and techniques for application.
Staff from related support subjects may be involved in projects and their assessment.
Evaluation and assessment will be based on project work.

LPP134 Documentation

Aim:
To promote awareness and understanding of forms of documentation for landscape practice.

Synopsis:
The different types of documentation, their uses, formats, advantages, and implementation - personal curriculum vitae, portfolio of work, office promotional brochures, standard letter and office management forms, design documentation, design implementation documents; work for publication. Time and percentage measurement and costing related to promotion and documentation, costs of documents including relative costs of different methods of production. Introduction to computer-aided drafting.
Material will be covered in lectures and tutorials. Evaluation and assessment will be through production of a Curriculum Vitae and portfolio of work and the preparation of work for publication.

ARA124 Draftsmanship (a)
ARA224 Draftsmanship (b)

Aim:
To develop skills in various types of drafting and presentation required in offices.

Synopsis:
Instruction in various types of drawings and mapping used in offices. Methods of setting out office drawings for sketch presentation, working drawings, and details. Place of lettering, types of linework, and indications of materials. Use of instruments, scales, and various types of drawing material. Introduction to electronic drafting and lettering devices, computer aided drafting and information retrieval. Setting up of working drawings and details in line with progress in other subjects such as Construction. Setting up of contours.

ARA521 Drawing Office Practice

Aim:
To give to the Technician a knowledge of how the business of an architect is carried on.

Synopsis:
An introduction to the business side of architecture and the responsibilities of staff. Methods of filing and storing office data, drawings, specifications and quantities. Site supervision and reports. Collaboration with specialist consultants.

MEB010 Dynamics I

Aim:
To develop a technique for determining the behaviour of a system or structure, and obtaining quantitative information about it, by using simplified analysis and

modelling methods where sophisticated analysis would normally be used.

Synopsis:
A blending of simplified analysis with modelling methods for the more complex cases, thereby avoiding sophisticated mathematical methods, while still enabling the student to obtain quantitative answers.
Motion, particularly as found in architecturally relevant machines and mechanisms.
Forces due to inertia, impacts, and collisions; damage and vibration arising from them.
Fluids, transmission in pipes and channels, mechanisms of erosion, forces exerted on structures.
Methods of measurement.
Making and testing of models and deriving the required data from them.
Techniques of modelling with readily available materials and easily constructed models.

MEB012 Dynamics 2

Aim:
A further development of Dynamics I in which the emphasis is changed from understanding to proficiency in modelling technique and extending the variety of problems dealt with.

Synopsis:
Continuation of the work of Dynamics I in which both the methods of analysis and modelling are developed further, but the emphasis changes from understanding in Dynamics I to application and the development of competent performance in Dynamics II.
Further treatment of machines and mechanisms.
Unbalanced forces in rotating bodies and gyroscopic effects. Vibrations due to unbalance; how they may be determined and eliminated. Earthquakes and their effects.
Interaction of fluids and structures under gusty conditions, ocean waves, and natural phenomena.
Further work on measurements.
Students will undertake model studies of more realistic cases.

BEB571 Ecological Principles I

Synopsis:
Basic ecology and the application of ecology to the understanding of some of the general environmental programs.

Introduction to general concepts of ecology; organisms, species, ecosystems, niches, adaptation; bio-geochemical cycles; energy, trophic levels and structure, productivity; limiting factors; populations; ecosystem evolution.

Field work forms an integral part of this subject.

BEB671 Ecological Principles 2

Synopsis:
The application of ecological principles (the ecological approach) to design of the environment.

Study of environments (freshwater, marine, and terrestrial); applied ecology, stewardship of resources: conflicts among social, political, economical and ecological approaches; habitat manipulation.

Field work forms an integral part of this subject.

LPP162 Ecological Systems

Aim:
To promote understanding and appreciation of natural environments and skills in their interpretation.

Synopsis:
The study of small to medium scale ecosystems, including plant-soil relationships, structure and function of natural communities, evolutionary and ecological processes, analysis and interpretation of natural indicators using aerial photographs, transects and mapping. Study of local ecosystems, their composition (identification of species), dynamics and responses to pressures.
Lectures, laboratory, and field work will be held. Evaluation and assessment will be through written report and participation.

BTB552 Economics of Industrial Production

Aim:
1. To develop understanding of the relationship between design business and the economic system.
2. To provide a background knowledge of management, financial and marketing parameters leading to production decision and the cost viability of different production systems.

Synopsis:
This subject consists of series of lectures and seminars and covers the following aspects: business, costing, production, marketing, strategic planning and capital budgeting.

BGB343 Economics of the Construction Industry

Aim:
To explore economic and financial aspects of the Construction and associated Industries. This will cover the environment in which these industries operate, their structure, operation and control and the financial aspects of development projects.

Synopsis:
Economics of the Construction Industry I -

Introduction - Definitions, Objectives and Methodology. Branches of Economics. Applied Economics.

Operation of the Whole Economy - Features of the macro economy and the way it operates. Application to the Australian and other political economics.

Demand, Supply, Prices and Stocks - Types of demand (effective and ineffective). Determinants of demand and supply. Equilibrium. The role of stocks. Advantages and problems of the price mechanism. Alternative mechanisms.

Market Structures - Categories of industries, markets and market structures. Competition, collusion, integration and concentration.

Real Property Markets - Tenure. Types of markets, submarkets and segmentation. Characteristics of land. Features and problems of real property markets. Aspects of town planning and effects of land use controls. The UCV concept.

Structure of the Construction Industries. Size, composition, and particular characteristics. Associated industries. Business structures.

The Housing Industries. Spatial markets. Characteristics of housing. The demand for dwellings. Determinants of demands. The first home buyer. The deposit gap. Government initiatives. Public housing. Rental markets.

Pricing Mechanisms - Types, advantages, problems and effects. Application is to land, contract and 'speculative' building projects. Sales forecasting.

Cost Analysis - Cost concepts. Cost components in housing. Problems of rising

costs. Effects of time delays. Break even and incremental analysis. Indexes. Published statistical series. Seasoned adjustment.

The Finance Industries - Types and uses of finance. Loans and deposit considerations. The use of gearing. Risk considerations. Cash Flows. Delays and the multiplier process, the effects of various controls. Lease or buy decisions. Mortgages, including insurance. Availability, costs, conditions and terms of end finance. Business cycles and fluctuations in the construction industries. Business cycles. Inflation and unemployment. Structural change in the economy. Causes of instability in the construction industries. Causes of failure of developer and builder firms.

LPP334 Economics of Town Planning

Semester 3 (Part-time)
Semester 1 (Full-time)

Aims:
To provide an introduction to urban economics and the economic aspects of land use.

Synopsis
Introduction to Economics: the factors of production and their organization. Demand and supply. The Free Market and its imperfections. The market as an allocator of preferences -concepts of private and public interest. Market Failure. Social objectives and the role of government.

Economic growth and stability - the enabling of development. The problem of negative externalities - the economic justification of the public control of development. Economic methodology, such as regional accounting, cost benefit analysis.

Economics of land use: land as an economic concept: public and private costs. The features and operation of the real property market. Theories of land value. Land valuation theories and techniques. Land tenure - the rights of ownership -resumption by the Crown - problems of compensation and recouping of betterment. Land use controls.

ARB591 Elective I

Aim:
To permit the student to achieve extra breadth of outlook.

Synopsis:
Each student will be required to take a subject of his own choice at the University of Queensland, Griffith University or at another QIT School.

Alternatively, with the approval of the Head of School, a student may elect a research study on an individual project within the School of the Built Environment. Students wishing to take an elective at another Campus should consult the Head of Department concerning the administrative arrangements to be made. Students will not normally be permitted to take a subject at another Campus if a comparable subject is available at QIT.

ARB691 Elective 2 (Thesis)

Aim:
An in-depth study of an approved subject of the student's choice. The subject may be in the form of a design or written submission, but its scope must be such as to demonstrate the candidate's ability to cope with a difficult and complex problem that requires observation, analysis and critical creative thinking.

Candidates will be required to make regular submissions to the subject supervisor to satisfy him that the thesis is proceeding in an orderly manner.

LPP128 Elective Design Study

Aim:
To undertake a detailed professional study in a specialized area of personal choice subject to approval of a previously developed detailed brief.
To encourage individual and independent project initiative, direction and organization.
To enable each student to demonstrate a high level of ability in landscape design and/or landscape planning.

Synopsis:
Within regular tutorial sessions, students will develop and apply a systematic methodology to the investigation and resolution of a relevant problem or issue within specific identified parameters.
Special emphasis will be placed on evidence of design skills and understanding within the framework of the study's scope in the form of detailed design proposals, case study application of principles and conclusions from the study. Illustrated policies and/or guidelines related to implementation strategies or other approved work will be documented and submitted in graphic and/or written or other approved forms and will be presented verbally at conceptual and final stages for critique and evaluation. Evaluation and assessment will be by Board of Examiners (staff and practitioners) through formal student presentations of studies.

ARP522 Elective Study I

To provide an opportunity for students to undertake in-depth studies in areas of personal interest that have been approved by the Head of Department. Students may nominate any subject associated with architecture as an elective proposal or select a subject from an allied course such as Building, Urban Planning, Landscape Architecture, Industrial Design etc. It is particularly pointed out that choice can assist towards a qualification in the special field. Students are advised to discuss the matter of possible electives with the Design Year Master.

ARP531 Elective Study II (Thesis)

Aim:
An in-depth study of an approved subject of the student's choice. The subject may be in the form of a design or written submission, but its scope must be such as to demonstrate the candidate's ability to cope with a difficult and complex problem that requires observation, analysis and critical, creative thinking. If the thesis is a continuation of a previous elective study it must clearly demonstrate the additional thesis work area. Candidates will be required to make regular submissions to the subject supervisor to satisfy him that the thesis is proceeding in an orderly manner.

LPP342 Employment, Industry and Commerce

Semester 4 (Part-time)
Semester 2 (Full-time)

Aims:
To introduce students to the structure of the labour market and to techniques for predicting future demand for labour in different employment sectors.

Synopsis:
Changing employment structure since 1800. Effects of changing demand patterns on employment industrial and residential locations, definitions and analytical techniques. Economic base studies; activity rates; the use of multipliers. Location of industry; theory and policy. Types and needs of industry. Retailing as an activity, and the needs of shopping. Retail hierarchies. Office activities, office relocation. Shopping centres, office and industrial parks. Government objectives and the use of incentives. Futurology and predicting future demand for labour and jobs. Post-industrial society.

BTB103 Environmental Studies 1

Aim:
To develop awareness and understanding of the natural environment and its interactions with people.

Synopsis:
Man's place in nature. Some concepts of ecology -concept of the ecosystem, energy in ecosystems, interactions in the natural environment. Population, resources and pollution - the ecology of populations, man as part of the ecosystem, diversity as an ecological resource, resilience of natural systems, systems of overloading. Structure and function of essential biological systems. Environmental health. Field studies will complement the lecture series.

BTB203 Environmental Studies 2

This is a continuation of Environmental Studies 1

Aim:
To develop awareness and understanding of the natural environment and its interactions with people.

Synopsis:
Man's place in nature. Some concepts of ecology -concept of the ecosystem, energy in ecosystems, interactions in the natural environment. Population, resources and pollution - the ecology of populations, man as part of the ecosystem, diversity as an ecological resource, resilience of natural systems, systems of overloading. Structure and function of essential biological systems. Environmental health. Field studies will complement the lecture series.

BTB303 Environmental Studies 3 - Environmental Design Science

Aim:
To provide technical knowledge of comfort criteria for people and of the needs of living plant material in external spaces.

Synopsis:
The effects exerted upon micro-climates of external areas by topography, surface materials, vegetation, water bodies, and buildings. Specific use of plant material as contributor towards environmental comfort. Environmental requirements for the living plant with emphasis on plants within urban areas. Broad planning criteria for open space based on human comfort.

BTB403 Environmental Studies 4 - Environmental Impacts

Aim:
To encourage understanding of ecological impacts of development and production in the built environment.

Synopsis:
The impacts of particular types and processes of development; environmental impacts related to land uses, land and building development, production and use of consumer products, construction materials and processes; environmental criteria for future land and product development.

LPB513 Environmental Studies 5 - Impact Analysis

Aim:
To familiarise students with the technical, administrative, and legal aspects of environmental analysis.

Synopsis:
Need for environmental analysis. Aids to analysis - vegetation mapping, pollution and use indicators. Techniques of analysis, projections and predictions. Social and economic aspects of Environmental Impact Analyses. Administrative and legislative bases of environmental and economic impact assessment. Roles of various disciplines in Environmental Impact Analyses.

LPB613 Environmental Studies 6 - Issues and Ethics

Aim:
To examine current major environmental problems and solutions and to develop an understanding of the range of attitudes and values that may be adopted to environmental conservation and development.

Synopsis:
Case studies of successful solutions to environmental problems (e.g. Oregon, London, South Australia). Implications of major environmental problems and environmental awareness for urban form and policies. Environmental impacts of technological change. Contrasting attitudes towards conservation of natural, rural and urban environments. Concept of stewardship.

BTB445 Environmental Technology I

Aims:
1. To apply and develop existing knowledge of relevant construction processes.
2. To investigate design potentials and constraints resulting from technological and environmental processes.
3. To develop effective relevant communication skills.

Synopsis:
Knowledge gained in previous subjects of construction methods and materials and of environmental impacts will be applied in studies and projects investigating the place of buildings and structures within natural systems and of natural systems within built environments. In each project, students will investigate such factors as the technological, environmental, ecological and management constraints brought about by or inherent within the proposal, and consider the potential of such factors to contribute towards or detract from the design intent. The subject will be studied through tutorial, seminar, studio and field situations.

BTB545 Environmental Technology 2

Aim:
To consolidate and extend the theory in Construction 1 and Environmental Technology 1 into practical applications relevant to each professional discipline. To promote understanding of design or planning decisions in terms of technical implementation. To continue to develop technical communication skills.

Synopsis:
The subject will be based around approved elective project work. The elective concept is intended to permit focussing of direction into either Planning or Landscape Architecture with emphasis on technical research and data collection applicable to the project.

ARB344 Ergonomics I

Aim:
To develop a scientific and research approach to problem solving and implementation of principles during the design process.

Synopsis:
To study different aspects of human factors with an emphasis on their application to human-equipment-interface. The course will consist of lectures, and laboratory exercises. Lecturec topics will include:
Systems and People: Person-Machine-System Models. Human Capabilities. Hearing and Signal Detection Theory. Vision.

ARB444 Ergonomics 2

Aim:
To develop a scientific and research approach to problem solving and implementation of principles during the design process.

Synopsis:
To study different aspects of human factors with an emphasis on their application to human-equipment-interface. The course will consist of lectures, and laboratory exercises. Lecture topics will include: Psychomotor skills, human information processing.
Human machine interfaces, displays, controls and tools, human machine system properties, feedback, and controls, wordspace design, noise, stress, vibration, legal aspect, safety and product liability.

BGB446 Estimating I

Aim:
To provide the student with an understanding of estimating techniques and procedures related to a variety of situations and conditions.

Synopsis:
Building Trades Awards and Wages Rates. Hourly rate build up.

Build up of a typical rate for the following trade items:
- Excavator, equipment bulk, hand and rock excavation, bulk filling and compaction, bored piers etc., planking and strutting
- Brick and blockwork
- Carpenter, Joiner, Ironmonger and Metalworker
- Drainer, Sanitary Plumber and Roofer
- Wall, ceiling and floor finishes and painter.

Calculation of preliminaries for a small suburban project.

BGB540 Estimating II

Aim:
To develop estimating techniques related to more complex and advanced construction.

Synopsis:
Build up of a typical rate for the following trade items:
- Demolition, dewatering, piling, underpinning, shoring
- Formwork to columns, beams, walls and slab systems
- Reinforcement tying and fixing
- Concrete placing rates
- Precast erection

Calcuations of preliminaries for country and city project.

ARB511 External Services I

Aim:
To familiarise students with issues affecting the provision, scale, location and design of water supply, drainage and sewerage systems.

Synopsis:
Water supply: the hydrological cycle, water catchments, storage and quality control, urban water supply systems.
Drainage and sewerage: available systems, design elements, treatment plants and disposal of treated effluent. Other wastes, disposal of solid and special wastes.
Environmental legislation and community attitudes to water supply, storage, drainage, sewerage and treatment systems.

ARB611 External Services 2

Aim:
To familiarise students with the provision, organisation and administration of community services.

Synopsis:
Energy: Sources of energy. Generation and distribution of electricity and gas, and installation in buildings. Solar and other alternative energy sources - general overview of developments.
Transportation: General introduction to transportation systems, traffic corridors, terminals, interchanges, parking and land use requirements will be considered in broad terms.
Communications: Present and developing systems. Requirements for distribution and installation and impact on design.
Site Studies related to Services: Overview of restraints on development due to all services considered previously and to health and comfort of the community.
Artificial lighting - external areas.

ARB301 Fabrics and Textiles

Aims:
1. To develop theoretical understanding of textiles, fabrics and soft furnishings as a basis for design.
2. To develop knowledge and understanding of manufacturing techniques as a basis for design.
3. To develop knowledge and understanding of techniques of installation as a basis for design.
4. To develop an awareness of the aesthetic and practical possibilities and limitations of fabrics and textiles in interior design.

Synopsis:
The course will consist of lectures and field studies. Topics will include: Introduction to fabrics and textiles in interior design; wall to wall carpeting, materials, properties and fixing methods; curtains and blinds, materials, properties, methods of installation and control; upholstering, materials, properties and techniques; the role of fabrics and textiles in interior design.

BTN404 Feasibilities and Management in Urban Design

Aims:
To examine methods for assessment of the feasibility of urban projects and the process of managing urban development.

Synopsis:
The role of feasibility studies, Methods of assessment of feasibility. Evaluation of economic and social/environmental costs and benefits. Decision making criteria. Introduction to management. The management of urban projects, management structures, project team organisation, planning and programming, project control and maintenance.

BGP428 Feasibility Study

Aim:
To prepare a feasibility study for a major project given an identified site and a conceptual client brief.
Use of appropriate computer packages will be encouraged.

Synopsis:
Students will already be aware of the entrepreneurial process, concepts of design management and economic evaluation of a project and have a folio of case studies from previous subjects.
Each student after a market/needs survey will develop a feasibility study suggesting a conceptual design; major construction components; construction methods; lead time schedule; outline network plan, cash flow analysis; and marketing plan (if applicable). The suggested solutions will be costed using approximate methods of estimating.

A conceptual approach will be emphasised as time would not permit a detailed analysis.
Simultaneously a series of lectures/tutorials will be presented for approximately the first ten (10) weeks of the semester. The Lecturers will be practitioners from industry such as: Project Managers; Development Company Executives; Building Owners and Managers - Private and Government sector; Town Planner from Local Government; Financier/Banker; Investment Fund Manager; Real Estate Executives -marketing and time share schemes; etc.
The final four (4) weeks will be devoted to as needed tutorial sessions to assist in the final preparation of the study.

Assessment:
Report.

ARB197 Field Studies IA
ARB198 Field Studies IB

Aim:
To encourage students to see processes and systems in action in the built environment.

Synopsis:
The study, observation and evaluation of preparatory operations on the site, work under construction on the site and work being prepared for the site in various industrial processes.

Site courtesies; Location on site; Site preparation and equipment; Common subsoil strata; Common species of timber; Timber products; Essential services.

ARB297 Field Studies 2A
ARB298 Field Studies 2B

Aim:
To encourage students to see 'the building' as one element in several interlocking systems.

Synopsis:
The building and its physical setting. The impact on the natural environment, the building in a network of essential services, the social impact of the building. Current methods of construction in brick and timber frame.

ARB397 Field Studies 3A

Aim:
To have the student see in the field those elements of technology which are being covered in the formal teaching program.

Synopsis:
a. Field studies of those elements covered in - Basic Engineering Services, Advanced Construction and where applicable, Structural Mechanics I and 2.

ARB398 Field Studies 3B

Aim:
To have the student see in the field those elements of technology which are being covered in the formal teaching program.

Synopsis:
b. Particular studies of concrete technology including materials, admixtures, reinforcing, mixing, placing, strengths, testing and trials, curling, formwork, removal of formwork, construction and strain joints, embedments.

ARB497 Field Studies 4

Aim:
To continue and complete the Field Studies started the previous year.

Synopsis:
Generally as for Field Studies 3 but taking into account also the work being covered in Design I.

ARB597 Field Studies 5

Aim:
To encourage the student to observe and study management processes in action.

Synopsis:
A critical review of existing systems in the industry. The student will be required to place himself in a position in which he has taken responsibility for the total project including feasibility, design, services and construction and to explore the principle management problems at each step from conception to completion. Compilation of analyses and discussions of the various phases.

ARB697 Field Studies 6

Aim:
To assist students to reach a high level of professional competence and to prepare them for the Practice Examination set by the Board of Architects of Queensland under 'The Architects Act, 1962'.

Synopsis:
There will be no formal syllabus. Each student will be encouraged to seek responsible involvement in particular projects, to review his attainments against the requirements of the Practice Examination and to seek the early assistance of his employer and the School staff to reinforce any weak spots in his experience of training.

LPP319 - 369 Field Studies and Workshops

Aims:
To integrate classroom studies with experience in the field.

Synopsis:
One field course of approximately 5 - 8 days each year linked to a project, to provide a comparative dimension to students' studies and to develop power of observation, problem identification, command of survey techniques and methods of recording and interpreting information.

Three Workshops of 3 hours each per semester to focus on a particular topic of current relevance to physical planning, and to explore it in conjunction with expert practitioners and members of the general community directly involved in the issue.

BGB601 Formwork Design and Construction

Aim:
To provide the student with a greater understanding of formwork types, design, safety and cost.

Synopsis:
Objectives in formwork building, quality, safety, control. Formwork planning -reuse, materials and hardware, cost, hire or buy, erecting and stripping, scheduling. Types of materials, facings, finishes, hardware and fasteners. Loads and pressures on slab, beams, columns and wall forms. Form design and design tables. Formwork drawing and detailing. Building and erecting formwork, architectural forms. Precast concrete. Special techniques and pre-stressing. Proprietory formwork systems. Falsework will be designed in conjunction with

the above but will only involve simple support beam or axially loaded props, more complex support systems will not be dealt with.

Textbook:
P. McAdam, 'Formwork Design', C & C Association, 1981.

LPP041 Freehand Drawing

Aim:
To develop fundamental skills of perception, observation and visual thinking.
To develop fundamental skills and techniques in the description and expression of physical form and space through the application of line, shade and texture.
To introduce and develop familiarity and competence in the free use of a range of media including pencil, ink, and felt pen.
To establish and develop an appreciation of drawing as an integral tool related to design skills and processes.

Synopsis:
Studio work with life and figure drawing and still-life set-ups; field experience with drawing in townscape and nature settings; gesture, contour and memory/imagination exercises.
Composition, figure-ground, spatial illusion, introduction to principles of perspective, space, and colour.
Comparative graphic techniques and applications examined through slides and demonstrations.
Evaluation and assessment will be based on skills and development evidenced in studio/field exercises as well as in a personal sketchbook and production of a drawing resource file.

ARA123 Freehand Drawing (a)
ARA223 Freehand Drawing (b)

Aim:
To develop skills and techniques in the free use of pencil, ink, felt pen, and other media as aids to graphic communication.

Synopsis:
Sketching in pencil from nature, cast, and other areas. Development of tones and textures. Composition and presentation of sketching exercises. Sketching in ink by pen and brush, use of felt pen and similar media. Use of these media to present work undertaken in other study areas.

BTB331 Furniture and Fittings 1

Aims:
1. To develop theoretical understanding of textiles, fabrics and soft furnishings as a basis for design.
2. To develop knowledge and understanding of manufacturing techniques as a basis for design.
3. To develop knowledge and understanding of techniques of installation as a basis for design.
4. To develop an awareness of the aesthetic and practical possibilities and limitations of fabrics and textiles in interior design.

Synopsis:
The course will consist of lectures and field studies. Topics will include: introduction to fabrics and textiles in interior design; wall to wall carpeting, materials, properties and fixing methods; curtains and blinds, materials, properties, methods of installation and control; upholstering, materials, properties and techniques; the role of fabrics and textiles in interior design.

BTB431 Furniture and Fittings 2

Aim:
To develop awareness and understanding of the aesthetic and practical possibilities of the decorative crafts for interior design.

Synopsis:
The course will consist of lectures, field studies, and studio and workshop exercises. Lecture topics will include: general principles of ornamental design; decorative metalwork; stained glass; decorative ceramics; plasterwork; carved and inlaid woodwork; lacquer work; printed fabrics and papers; tapestry and embroidery.

BTB531 Furniture and Fittings 3

Aims:
1. To develop an understanding of the performance of materials used in interior design.
2. To develop an understanding of built in furniture items, their design and integration into interior environments.

Synopsis:
The manufacture, assembly and fabrication of furniture, fittings and components used in interiors. Lectures include the expected performance of materials and furniture items, and will focus on functional, maintenance, life span, economic surface properties.

BTB631 Furniture and Fittings 4

Aims:
1. To develop a methodical approach to the choice of loose furniture, furniture systems and interior products.
2. To introduce both quantitative and qualitative assessment approaches.

Synopsis:
Lectures and tutorials will outline issues involving selection of furniture/product items, client profiles, economic criteria, user perceptions, corporate image to user/client expectations.

BGP425 Graduate Project

Aims:
To develop an ability to disseminate information and evaluate specialised knowledge and to acquire an understanding of the methodology and management of research in project management.
For the student to gain experience in preparing a professional consultancy report.

Synopsis:
The definition, history, financing and future developments in project management research. Research management. The research process. Implications for research. The student will be given an opportunity to apply the knowledge and skills acquired during the course to the analysis of a project management problem and the development of a proposal to deal with the problem.
In essence the student will declare an interest and submit a brief resume of work experience in a particular area of Project Management related to the course and will then henceforth be regarded as the 'consultant'. The Supervisor will then set an actual topic within that declared area and adopt the role of the 'client'. The actual topic may cover several subject areas within the course. e.g. A management problem with related economic and legal implications.
Supervision of the research project will be carried out by a member of the academic staff and an external supervisor may also be appointed.

Assessment:
Semester 1 - Survey of information relating to the selected problem, data

collection and preliminary submission of parameters of the proposed study.
Semester 2 - Consultation and development of the proposed study reports including group discussion and seminars.
Preparation and presentation of a written graduate project report and a summarised version at a seminar before an invited audience of peers and practitioners.

LPP301/LPP302 Graphics and Professional Presentation

Synopsis:
Skills development in graphic communication - freehand sketching of objects from observation, rendering textured surfaces, design developmental graphics, understanding of two-dimensional layout and competence in presentation of two-dimensional design in reports and drawings.

Report writing. Structure and content of reports. Summaries and sub-division of material. Precis. Use of tables, charts and illustrations. Oral and written presentation. Clarity and the selection and management of relevant data.

Students who have completed Strand B of the Bachelor of Applied Science (Built Environment) course will normally be exempted from some or all parts of this introductory work.

LPP311 History and Evolution of Town Planning

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To provide a context and setting for other parts of the course by investigating the links between society, ideas, technology and design through history; and to place town planning history in its broader social context.

Synopsis:
The link between society, ideas, and design in historical development. Urban evolution prior to modern times (particularly the 'urban revolution' Greece and Rome, the Middle Ages, the Renaissance and Baroque periods). The Industrial Revolution and its impact on city size, form, structure, planning and problems; and anti-urban themes. Utopian ideals (Plato, More, Bellamy, etc). Reform movements from Owen to Howard in the U.K. and U.S.A. The European New Town Movement. Modern design movements. The growth of professionalism. History of Town Planning in Australia.

ARB138 History of Interior Design 1

This course will complement LPB112 History of the Built Environment 1.

Aims:
1. To introduce students to the history and tasks of the Interior Design Profession.
2. To provide a basic stock of models and images as a resource for designing.

Synopsis:
The course will review the development of the design of building interiors from the earliest times to the seventeenth century. Studies will be developed in conjunction with the History of the Built Environmment 1 and relationships to ideas technology and the fine arts will be discussed.

ARB201 History of Interior Design 2

This course is a continuation of History of Interior Design 1, and will complement LPB212 History of the Built Environment 2.

Aims:
1. To continue the study of the history and tasks of the Interior Design Profession.

2. To build on the basic stock of models and images commenced in the previous semester as a resource for designing.

Synopsis:
The course will continue the study of the design of building interiors from the seventeenth century to the present day. Studies will be developed in conjunction with History of the Built Environment 2 and relationships to ideas technology and fine arts will be reviewed.

LPP175 History of Landscape Design

Aim:
To establish an historical background perspective of landscape design related to time and place.

Synopsis:
The form and content, influencing factors, and implication of the creation and development of historically, regionally, and religiously significant consciously designed landscape throughout the world; the evolutionary processes in development of cultural landscapes.
Lectures, seminars, and field excursions will be held. Evaluation and assessment will be through seminar and written report.

BTB102 History of the Built Environment 1

Aims:
1. To provide an introduction to the development of human culture and artefacts.
2. To provide a basic stock of models and images as a resource for designing.
3. To lay the foundation of a critical understanding of works of art and design.
4. To introduce students to the history and tasks of the design professions.

Synopsis:
History of the following from c 1600 AD: ideas, art, and three of the following (one of which must be the student's strand discipline) - Town and Country Planning, Landscape Architecture, Architecture, Interior Design, Industrial Design.

BTB202 History of the Built Environment 2

This is a continuation of History of the Built Environment 1

Aims:
1. To provide an introduction to the development of human culture and artefacts.
2. To provide a basic stock of models and images as a resource for designing.
3. To lay the foundation of a critical understanding of works of art and design.
4. To introduce students to the history and tasks of the design professions.

Synopsis:
History of the following from c 1600 AD: ideas, art, and three of the following (one of which must be the student's strand discipline) - Town and Country Planning, Landscape Architecture, Architecture, Interior Design, Industrial Design.

ARP671 History, Theory and Criticism of Industrial Design

Aim:
1. To examine the nature of the historical evolution of Industrial Design in relation to the social contexts of particular periods.
2. To provide a framework into which students can interpolate their own perception of everyday objects and systems.

Synopsis:
This subject reviews the development of Industrial Design and its relationship to ideas, technology and arts, and the development of industrial design from

eighteenth century to the present day. It also covers the study of Australian inventions and their impact on product design in Australia.

ARA344 History of the Built Environment

Aim:
To make students aware of the influences that changing society, development of technological knowledge, and availability of materials have had on design in the built environment.

Synopsis:
A study of the growth of civilization as expressed in Towns, Buildings, and Landscape from Ancient Egypt to the Present Day.

BTN201 History of Urban Systems

Aims:
To identify the main themes or systems which must be matched in the process of urban design.
To consider and analyse their interaction and expression in urban form in historical terms.

Synopsis:
This subject will offer a systematic analysis of urban forms and systems in the pre-industrial, industrial and post-industrial periods. Specific topics will include urban activities (commerce, manufacture, administration, dwelling, recreation and culture) - urban services (water supply, transportation, defence and public order, fire control, sewerage and waste disposal, fuel and power, public information) -urban form (planning for intelligibility, planning for propriety and symbolism, planning for delight).

LPP164 Horticultural Techniques

Aim:
To promote understanding of horticultural approaches and techniques associated with landscape design projects.

Synopsis:
Introduction to nursery techniques related to production of single or multiple plants, plant availability, propagation methods, standards; transportation, planting, and establishment techniques for all scales of planting including turf and lawn grasses; transplanting; basic plant disorders and their treatments, plant management techniques; maintenance schedules; relevant specifications.
Lectures, tutorials, and field work will be held. Evaluation and assessment will be by participation and written report.

LPP332 Housing and Community Services

Semester 3 (Part-time)
Semester 1 (Full-time)

Aims:
To familiarise students with the housing, education and social welfare systems and with techniques for their analysis and prediction.

Synopsis:
Population, dwellings and households. Techniques of analysis and projection of housing stock. Housing conditions and preference surveys; housing issues and policies. The economics of the building and land development industries.
The physical place of educational institutions in communities -schools, colleges, universities. Shared use of facilities. Location and space standards.
Social and welfare services and their role in the community. Planning and management aspects of welfare.

BGB345 Hygiene and Sanitation

Aim:
To generate an awareness of how hydraulic engineering services affect building design in both the micro and macro situation.

Synopsis:
A study of macro services to the community including water supply, sewerage, power, gas telephone and other public services. Requirements of headworks and reticulations. A study of sanitation, septic tanks, absorption and transpiration beds, stormwater and sewerage disposal and garbage and refuse disposal.

Hydraulic engineering services associated with buildings. Water supply (including fire fighting and hot water), sewerage and sanitary plumbing with a study of relevant Acts and laws, including sizing and testing of main and gravity fed services.

LPP174 Human Studies

Aim:
To encourage basic understanding of motivation and value systems and an awareness of their implications on landscape design and appreciation.

Synopsis:
Introduction to motivational theory and value formation; the interface among society, culture, behaviour, and the built environment; basic concepts of community, social spaces, and group interaction; socio-spatial analysis techniques.
Lectures and seminars will be held. Evaluation and assessment will be by a written report or seminar presentation and by application in Design.

LPB301 Human Studies I

Aim:
1. To further study of man's cultural developments with special reference to Australia.
2. To provide detailed study in behavioural science, built upon initial studies.

Synopsis:
The series will be undertaken in two parts of equal importance:

A. *History* - Further studies of historical developments following on from previous work in Human Studies II, and an analytical study of the cultural development in Australia since the arrival of the first fleet showing the dichotomy of attitudes and philosophy to culture before and after this event. A close examination of a society's challenge to a multiplex environment, including studies of man's impact on the Australian environment.

   Field studies allow appreciation of the processes of evolution in the specific areas of the arts, architecture, urban and rural planning, and landscape architecture.

B. *Behavioural Science* - The relationships amongst culture, the built environment, and human behaviour. Basic concepts of social space, group dynamics, decision-making processes, evaluation of effectiveness in group situations, the role of management and the manager with reference to work and its meaning, motivation, and organisation.

   The study will also draw examples from previous and present times to show how people in a group and the management of these groups have affected the living environments of man. Future possible directions and resultant consequences.

MNB032 Human Studies II

Aim:
To provide information on the institutional and organisational response to man's needs for conduct of society.

Synopsis:
A study of the formal organisation of man: specific aspects of community and the system of government under which the community evolves, especially with reference to the Australian situation. Topics would include social interaction and conflict in urban areas, development of pressure groups, unions, political parties, and multinationals and the processes of accommodation and compromise, Australia's three-tiered government system, the electoral system, and minor and sectional interest groups.

LPP135 Implementation

Aim:
To consolidate knowledge and skills related to production of documents for design implementation.

Synopsis:
Documents for design implementation, specifications, working drawings, bills, schedules; forms and writing of specifications; measuring and estimating of cost for landscape works.
Lectures and tutorials will be held. Evaluation and assessment will be based on design implementation documents produced for a design undertaken in a previous Design semester.

LPP345 Implementation and Management

Semester 4 (Part-time)
Semester 4 (Full-time)

Aims:
To describe and evaluate methods and approaches to the implementation, management and evaluation of plan proposals; to explore the roles of the public and private agencies involved in implementation and management of plan proposals.

Synopsis:
The place of implementation and management in the total urban and regional planning process, including the roles of various actors (public and private). Introduction to the concepts of policy science and decision-making. Implementation in turbulent environments. The problems of change and the agents of change. The general problems of implementation and evaluation: motivation, co-ordination, flexibility, information, judgement, resources, reality, social inertia, distrust of authority, planning and freedom.

Tools for implementation and evaluation, including conflict resolution theory, information and graph theory, multi-objective evaluations, the logic of priorities. Programme rectification. PPBS and similar techniques.

As far as possible material will be linked to case studies.

ARP672 Industrial Design I
ARP673 Industrial Design II

Aim:
1. To develop an understanding of industrial design as a profession by integrating the knowledge and skills on human needs, function, technology, economics, ergonomics and aesthetics into the design of different products or systems.
2. To develop an understanding of the systematic innovative design process

and emphasise the responsibilities of an industrial designer to society and industry.
3. To develop the approach to design research by applying it in a limited scope during the design process.
4. To develop student ability to work at a professional level.

Synopsis:
This course consists of studio work in which students design a wide range of products or systems. The emphasis will be on projects generated from local industry and community.

The complexity and depth of the design project will increase systematically according to the semester level.

ARP674 Industrial Design Research I

Aim:
1. To develop students ability to conduct analytical research in depth in an area of industrial design relevant to a personal interest.
2. To report on the research data gathered for application in the following semester.

Synopsis:
This course consists of the topic selected by a student and approved and supervised by the industrial design staff. Examples of topics are: microsurgical equipment design, bushfire safety equipment, mobile dental clinic in isolated regions and interactive display in psychological testing.

ARP675 Industrial Design Research II

Aim:
1. To develop students ability to apply research data gained in the previous semester to the design of a particular product or system.
2. To develop students ability to work at a professional level.

Synopsis:
This course depends on the topic selected by a student in the previous semester. Students are responsible for the program as a part of their project work, which will be approved and supervised by Industrial Design staff.

ARB710 Industrial Processes

Aim:
To develop an understanding of production methods and techniques and their organisation in contemporary industry.

Synopsis:
The course will be conducted by the case study method. Important manufacturing methods and processes, their current organisation and the impact of automation will be studied by site visits to selected factories. Each site visit will be introduced by lectures. A case study of the manufacture of a particular product will be developed.

ARP633 Industrial Production Techniques

Aim:
To provide knowledge of industrial production techniques and how they relate to product design solutions.

Synopsis:
This subject consists of series of lectures which include: production techniques in relation to different materials, various methods for different finishing operations, various methods for forming, automatic and semi-automatic assembly methods, quality control methods, etc.

MNB018 Industrial Relations

Aim:
To provide the students with an awareness of the problems emanating from industrial relations issues, and how they are resolved.

Synopsis:
Structure and development of the industrial relations system in Australia. Federal and State concilliation and arbitration systems, authority and extent of jurisdiction. Industrial relations issues such as wages, conditions, claims and disputes. Role of the trade unions, the employers' and employees' representatives, the commission, awards, and agreements. Acts, regulations, and worker's compensation. Law of Master and Servant. Strikes and Lockouts. Public liability insurance. Law of Professional Negligence.

Textbooks:
Dabscheck, B. and Niland, J., 'Industrial Relations in Australia, Allen and Unwin, 1981.

References:
Isaac and Ford: 'Australia Labour Relations Readings'.
R. Martin, 'Trade Unions in Australia'.
R. Hyman, 'Strikes'.

ARB401 Interior Construction 1

Aims:
1. To develop understanding of buildings as socio-technical systems.
2. To provide students with the technical knowledge necessary for the design of interiors.
3. To reinforce links between construction, other technical subjects, and design.
4. To develop further skills in technical communication.

Synopsis:
The course will consist of lectures and studio exercises complemented by site visits and workshops practice. Lectures will deal with the basic finishing trades and their interaction with the building carcase. Specific topics will include: plastering; wall and ceiling linking boards and sheets; ceramic wall and floor tiling; internal stone pavings and linings; wood strip, block and tile flooring; synthetic wall and floor sheets and tiles; simple joinery; painting and paper hanging.

ARB507 Interior Construction 2

Aims:
1. To further develop understanding of buildings as socio-technical systems.
2. To provide students with the technical knowledge necessary for the design of interiors.
3. To reinforce links between construction, other technical subjects, and design.
4. To develop further skills in technical communication.

Synopsis:
The course will consist of lectures and studio exercises complemented by site visits. Lectures will deal with industrialised interior finishing systems and the construction of joinery and fittings and their interaction with the building carcase and service systems. Specific topics will include: suspended ceilings; partitioning systems; computer floors; floor ducting systems; toilet partitions; wall panelling and decorative mouldings; shopfitting; introduction to cabinet work and furniture construction.

ARB608 Interior Construction 3

Aims:

1. To develop the understanding of buildings as socio-technical systems.
2. To provide students with the technical knowledge necessary for the design and alteration of building interiors.
3. To reinforce the links between construction, other technical subjects and design.
4. To consolidate and integrate through case studies the technical knowledge and skills studied in the previous semesters.
5. To develop further skills in technical communication relative to the interior design discipline.

Synopsis:

The course will be conducted by the case study method and predominantly by studio work. Case studies will be selected to develop a thorough understanding of the complete implementation of small interior design projects. Work will include the preparation of working drawings, details, specifications, quantities, estimates, contract and tender documents.

The work will be supported by lectures to complement the Professional Practice program on contract documentation and to introduce specifications, standard methods of measuring and elementary costing.

BTB435 Interior Technology 1

Aims:

1. To develop an understanding of buildings as socio-technical systems.
2. To provide students with the technical knowledge necessary for the design of interiors.
3. To examine the implications and methods of industrialised approach to building.
4. To further develop skills in technical communications.
5. To reinforce links between construction and other technology subjects.

Synopsis:

The subject will comprise lectures, tutorials and studio work complemented by site visits. The subject will deal with industrialised interior finishes, and construction of joinery and fittings and their interaction with the building shell and services. The notions of interior maintenance, life span economics will be introduced.

BTB535 Interior Technology 2

Aims:

1. To develop an understanding of buildings as socio-technical systems.
2. To provide students with the technical knowledge necessary for the design and alteration of building interiors.
3. To develop skills in interior planning and technical communications.
4. To reinforce links between construction and other technology subjects.

Synopsis:

This subject continues Interior Technology 1, with an emphasis on commercial construction systems and the impact of regulations. High rise buildings are examined, the planning of tennancles, partitioning, and furniture systems. Special considerations for shopping centres, theatres, medical clinics, taverns and restaurants are highlighted.

BTB635 Interior Technology 3

Aims:

1. To provide students with the technical knowledge necessary for the design and alteration of building interiors.

2. To consolidate and integrate the technical knowledge and skills covered in previous semesters.
3. To further develop skills and knowledge in technical assessment and communications relative to interior design.

Synopsis:
The subject will consist of lectures, tutorials and studio work. Lectures will concentrate on the technological assessment of interiors, structure, openings, environmental systems, artifacts and ambience of existing spaces with a view to utilising/changing what an existing space has to 'offer'. Tendering, consultants, leasing and tenancy-building interface will be examined.

ARB514 Interior Materials

Aim:
To develop an understanding of the performance of materials used in interior design.

Synopsis:
The manufacture, assembly and fabrication of materials and components used in buiding interiors; the mechanical, thermal, optical, and acoustic properties of the materials; performance specification of materials; material defects and remedies.

LPP030 Introduction to Computer Uses

Aim:
To introduce students to the use of computers in landscape architecture, including their potential benefits and constraints, and to familiarize students with the computing facilities available at the QIT.

Synopsis:
An overview of computers and their application to the work of the landscape architecture profession. The problems and advantages of computer use, an introduction to, and 'hands-on' experience in using the QIT's computer facilities including the DEC10, CADD/CAMM and micro-computers. Gaining access, file structures, information storage and retrieval, editing and related utility functions. Introduction to flow-charting and programming logic. Simple programming exercises.

LPP303 Introduction to Computers in Planning

Semester 2 (Full-time)
Semester 2 (Part-time)

Aims:
To introduce students to the use of computers in urban planning, including their potential benefits and problems; and to make students familiar with the computing facilities available at the QIT.

Synopsis:
An overview of computers: their structure, development and uses in the modern world. Problems and advantages of computer use. Introduction to, and 'hands on' experience in using the QIT's computer facilities: the DEC-10, CADD/CAMM, and micro-computers. Gaining access, file structures, information storage and retrieval, editing, and related utility functions. Introduction to flow-charting and programming logic. Simple programming exercises (in BASIC, FORTRAN and/or Pascal). CADD in design. Word-processing on micro-computers. As far as possible class sessions will include both teaching and 'hands on' tutorial experience.

ISB698 Introduction to Computing

Aim:
To provide students with comprehensive understanding of programming in BASIC and provide students with sufficient background to input computer techniques into course subjects requiring data processing.

Synopsis:
Brief history and development of computers. The use of digital computers. Flow charting and an assessment of the main languages in current use. Programming exercises and application of some common packages. The management of computer systems.

Textbooks:
D.H. Saunders, 'Computers in Business': An Introduction, 4th Ed. McGraw Hill
R.L. Nolan, 'Introduction to Computing through the BASIC Language', 2nd Ed. Holt, Rinehart and Winston Inc.

BTB235 Introduction to Interior Technology

Aims:
To introduce the student to the elements of constructin systems and construction materials and how these elements relate to form and structure.
2. To develop skills in measuring, surveying and recording information in existing spaces in buildings.

Synopsis:
The subject will consist of lectures and exercises both in the studio and in the field. Lectures will deal with basic structural systems and building carcase. Construction materials and finish materials will be differentiated. Instruction in techniques of measuring and recording existing structures including the use of tapes, levels, photography, photogrammetry and the recording, storage and use of surveyed information.

LPP011 Introduction to Landscape Architectural Profession

Aim:
To introduce Landscape Practice through awareness of the context of the profession.

Synopsis:
Profession and professionalism; historical overview of the profession of Landscape Architecture; the role, function and organization of the AILA; introduction to the discussion of areas of practice and professional involvements; overview of public vs. private practice; present and future trends; philosophies and sympathies: introduction to law and Landscape Architecture, the nature of law, law of Tort especially the Duty of Care. Evaluation and assessment will be based on attendance and participation in tutorials.

LPP126 Introduction to Landscape Planning

Aim:
To promote innovation and high professional standards within real client/community associated or sponsored projects.
To develop appreciation, through selected applications, of broader scale landscape work and an understanding of its relevance to site planning,
To consolidate and integrate knowledge and skills in related support areas.

Synopsis:
Medium to large scale projects involving a relatively high degree of complexity with a focus on evaluation and implementation strategies and methods. Emphasis on resolution of problems in the form of detailed illustrated policies, guidelines and development options. Applications to landscape planning.

Work will emphasise professional standards and will be suitable for community/ client presentation and/or display.
Studios will follow a programme combining lectures and seminars in relating relevant theory, methods and techniques for application. Staff from related support subjects may be involved in projects and their assessment.
Evaluation and assessment will be based on project work.

LPP022 Introduction to Physical Design

Aim:
To consolidate and extend knowledge, appreciation and skills of design principles and theories in both 2 and 3 dimensional applications.
To introduce and develop fundamental skills and understanding of abstract and practical space and form issues, and to introduce man into the context of design.
To examine selected examples of conscious design and environmental influences, and to foster critical capacities and evaluation.

Synopsis:
Three-dimensional design issues of space, structure, form, movement and sequence; examination of visual/perceptual principles to the experience of space; symbolic and emotive qualities of space/place; introduction to site and landform; environmental factors of light, orientation, context and scale; emphasis on both individual and group/public experience and use of space; introduction to selected environmental psychology issues influencing design.
Material will be covered in studio lectures and tutorials and supported with some field experience. Evaluation and assessment will be based on exercises and project work and evidence of applied understanding of contributing support material.

LPP315 Introduction to Planning Processes

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To relate planning processes to other creative activities, and to identify its constituent elements; to provide an overview of planning methods and techniques.

Synopsis:
Creativity, scientific method and planning method. Prediction, uncertainty, partial rationality and planning horizons. Deductive, inductive and hypothesis -based approaches to planning method.

The shape of the planning process. Objective formulation, data selection and analysis, resource and potential surface analysis. Policy formulation and plan generation. Evaluation techniques. Cyclic monitoring and re-formulation of objectives.

LPP052 Introduction to Structures

Aim:
To introduce basic concepts and terms relating to built structures in the landscape.

Synopsis:
Definitions of terms; basic actions/reactions of beams, columns, slabs, structure units; loadings and structures; structural properties of soil; soil classification for construction purposes.
Material will be covered in lectures, and knowledge assessed by assignment.

LPP321 Introduction to Theories of Planning

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To explore a range of theories relating to the nature and purpose of public planning in general and statutory physical planning in particular.

Synopsis:
The place of theory in planning; theory, as a basis for practice. Planning and design as generic activities. The political and philosophical determinants of the content of physical and land use planning. Values in planning, models of human nature, and the relationship of planning to important value traditions: liberalism, utilitaranism, empiricism, idealism, socialism, conservatism. The concepts of the public interest and of justice. Criteria for evaluating the effects of planning.

BTB100 Introductory Design I

Aims:
1. To teach the theory and practice of drawing for purposes of problem solving and communication.
2. To develop the habit of skills of visual thinking.
3. To develop a critical appreciation of the visual qualities of the environment by graphic studies, including studies in the field.
4. To apply the foregoing knowledge and skills, and knowledge from other subjects in the design of simple patterns and objects.
5. To develop a preliminary understanding of the relationship between design and production by workshop exercises.

Synopsis:
The greater part of the course will consist of studio work in freehand and mechanical drawing techniques, applied to a variety of subject matter at different environmental scales. Exercises will be based on the accompanying theory lectures. Workshop and field studies will be introduced as appropriate. Lectures will occupy 2 hr/week; topics will include: Drawing equipment; contour, texture and tone in object and space perception; the techniques of representing contour, texture and tone; depth perception, optical illusions and the principles of perspective; techniques of perspective drawing; the organisation of the visual field and the gestalt 'laws of pragnanz'; pattern in two and three dimensions; visual interest and attention; visual dynamics; principles of scale drawing; orthographic, isometric and axonometric projection, descriptive geometry of the intersections of plane and curved solids; perception and representation of highlights and reflections; perceptions, geometry and representation of shades and shadows; colour vision; colour harmony and contrast; mixing and application of colour.

BTB200 Introductory Design 2

Aims:
1. To introduce the design process and design.
2. To introduce by studio exercises, the practice of designing for use at a variety of scales.
3. To demonstrate the application of environmental studies and man-environment studies in designing for use.
4. Further to develop critical appreciation of the sensory qualities of object and environments.
5. To consolidate and extend the habit of visual thinking and skills in drawing for problem solving and communication.
6. To extend understanding of the relationship between design, communication and implementation through studio work, workshop and field exercises.
7. To give an understanding of the work and roles of the five professions.

Synopsis:
Design studies will follow according to the synopsis of Introductory Design. In particular, the subject will include:

(a) Studio work: Studio work will consist of simple three dimensional design tasks at a variety of scales, and illustrating tasks associated with the five professions. Workshop and field work will be related to studio exercises.
(b) Studies of the professions: a seminar course in which the work and roles of architect, industrial designer, landscape architect, urban and regional planner and interior designer will be explained and discussed by staff and practitioners and related to current work in the studio and to teaching in History of the Built Environment 2.

LPB503 Land Development I

Aim:
To provide information about the political, economical and physical backgrounds to land development, and then to investigate land development processes.

Synopsis:
Framework for decisions and policies - development objectives and conflicts, the politico-economic framework, the land development process, aspects of potentially subdivisible land, characteristics of land development projects. Operation of the raw land market. Production aspects of land development projects, structure and operation of approval authorities.
Design considerations - natural, engineering, planning, architectural, and final character aspects.
A field trip is usually undertaken as part of this unit.

LPB602 Land Development 2

Aim:
To make students aware of the problems associated with implementation of land development proposals and the means of achieving land development designs.

Synopsis:
Land development projects - financial aspects (private and community viewpoints), marketing aspects, the housing industries, problems confronting firms and the industry, trends.
Spot developments - approval processes, development networks, financing and marketing aspects.
A field trip is usually undertaken as part of this unit.

LPP136 Landscape Assessment and Evaluation

Aim:
To promote understanding of and ability to apply techniques of landscape assessment and evaluation.

Synopsis:
The physical and cultural determinants of landscape character; systems for evaluation of landscape character; techniques of survey and analysis for scientific and visual assessment; visual assessment and evaluation as an aid to Landscape Design and Planning.
Lectures, tutorials, seminars, and field work will be held. Evaluation and assessment will be through project work.

LPP154 Landscape Construction

Aim:
To provide technical information on landscape construction and encourage competence in technical communication of construction intent.

Synopsis:
Land clearing, soil compaction and stabilisation techniques; drainage - sub-surface and broad surface, calculations of run-off, concepts of overflow, pipe sizes for small situations; design criteria, proprietary types, associated services and facilities, consultants, controlling authorities and/or legislation, and construction details relating to irrigation, swimming pools, playing courts and fields, car parks, and bicycle ways.

Material will be covered in lectures, tutorials and field excursions. Evaluation and assessment will be based on production of construction details and accompanying notes, and on application in Design.

LPB431 Landscape Construction (Modified)

Aims:
1. To continue development of understanding of landscape construction in the urban context.
2. To consolidate understanding of land surface manipulation, construction materials and application.
3. To promote understanding of design decisions in terms of technical implementation.
4. To continue to develop technical communication skills.

Synopsis:
The subject will be studied through lecture, studio and field situations and will build on preliminary concepts covered in Construction 1 through the detailed examination of a range of common construction elements in the urban landscape. Field work will include actual construction of work evolved from the design program.

LPP155 Landscape Engineering

Aim:
To evoke appreciation of constraints to engineering services within the landscape and awareness of potential sympathetic inclusion in designed landscapes.

Synopsis:
Common philosophies of civil engineering designs; site influences on structural form; residential sub-divisions - structural and engineering design, services, design standards, controls; roads -hierarchy, route selection, design parameters, noise constraints, associated services/facilities; waste disposal - land fill, septic systems, soakage trenches, design and removal; dams, canals, lakes, marinas, coastal development - engineering constraints, design parameters, standards, erosion control methods; airfields; power reticulation; controlling authorities and legislation.

Material will be covered in lectures, tutorials and field excursions. Evaluation and assessment will be based on a written report.

LPP112 Landscape Practice

Aim:
To promote general understanding of practice matters preparatory to gaining work experience.

Synopsis:
Different forms of practice, relationships, responsibilities, conduct, employment, and standard office documentation; the Landscape industry, roles and responsibilities, organization, training and education; legal framework for contract and property law; statutory requirements and standards, construction law and responsibility.
Material will be covered in lectures and tutorials. Evaluation and assessment will be by attendance and log book.

LPP073 Land Use Generation
LPB603 Land Use Generation

Aim and Relationship to Course Objectives:
To describe the processes whereby various land uses develop to accommodate individual and social activities, expressing basic human needs and values.

Synopsis:
The evolution of western cities - medieval market towns, industrial connurbations, the modern metropolis. Order and diversity in the organisation of modern land uses. Values, activities and land uses. Characteristics of major human activities -shelter, work, movement, learning, recreation, exchange. Changing influences on contemporary settlements and emergent settlement forms.

LPP312 Land Use Generation and Population Studies

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To describe the processes whereby various land uses develop to accommodate individual and social activities, expressing basic human needs and values.
To impart knowledge of theories of population growth and demography and understanding of available methods of analysis and projection.

Synopsis:
The evolution of western cities: medieval market towns; industrial conurbations; the modern metropolis. Order and diversity in the organization of modern land uses. Values, activities and land uses. Characteristics of major human activities: shelter, work, movement, learning, recreation, exchange. Changing influences on contemporary settlements and emergent settlement forms.
Changes in population numbers. Vital statistics. Socio-economic characteristics. Spatial distribution. Population and dwellings. Trends, predictions. Population policies. Implications for planning.

LPB403 Land Use Policies

Aim:
To investigate and understand the organisation of land uses and activities.

Synopsis:
Review of the Government structure as applied to urban areas and regions. The levels of urban planning. How urban policies are made, and analysis of their effectiveness and implementation. Organisations as policy makers, and policy implementors. Areas of conflict and their resolution. Roles of various agencies involved; the various levels and types of land use planning, their powers, and their limits and practice. Major land uses and activities: work, housing, recreation, transport and welfare.

LPP176 Land Use Studies

Aim:
To promote understanding of reasons for and types of land use in both urban and rural areas.

Synopsis:
(a) Urban Land Use: The process of urbanisation and settlement patterns, urban activities and dynamics of growth; urban land development processes, statutory authorities, requirements, and design standards; the Town Plan including the planning process, statutory requirements, and main elements of planning schemes with particular reference to the Queensland situation.
(b) Rural Land Use: The characteristics and dynamics of rural land uses - forestry, pastoral and arable agriculture, extractive industries, water

collection and storage, recreation and tourism, conservation systems and their designations; rural land subdivision for residential use; rural planning and characteristics of rural settlements; case studies of rural land use, abuse, and conservation in Australia and overseas.

Lectures, tutorials, and field work will be held. Evaluation and assessment will be through subject project work.

BGB243 Law 1 - Building Acts and Regulations

Aim:
To make the students aware of the importance of the relevant Building Acts and Regulations affecting Building and Civil Engineering Work.

Synopsis:
Procedure in passing and resolving Acts, Regulations and By-laws. Procedure in collecting information on Regulations and By-laws. Knowledgeable site representatives.

A study of the following Acts which are closely associated with the 1975 - 1981 Building Act:

Health Act 1937 - 1967
Factories and Shops Act 1960 - 1964
Liquor Act 1912 - 1973
Acts Interpretation Act 1954 - 1971
Fire Safety Act
Town Planning Acts

A detailed study of the 1975 - 1981 Building Act, Appendix 4 to the Building Act, and Standard Building By-laws, which control the design and construction and building works in Queensland, with particular emphasis on Building Codes referred to in the By-laws.

BGB342 Law 2 - Principles and Property

Aim:
To provide the students with an introduction to the law as it affects the Construction Industry.

Synopsis:
Introduction to Legal Principles and Process - The legal system and process. Sources and divisions of the law. Rules of precedent. Interpretation of statutes and regulations. Legal practice and procedure.
Law of Property - Ownership and possession. Estates and interests in land. Easements, rights and restrictive covenants. Party walls, boundary walls, fences and encroachments.

BGB440 Law 3 - Building Contracts

Aim:
To provide the students with a greater understanding of the law relating to building and engineering agreements and of the practices relating in the building industry.

Synopsis:
Contract Law:
Basic Principles - elements, formation and discharge of a contract. Elements of Contract - offer, acceptance, certainty and consideration. Contents of Valid Contract - misrepresentation, collateral contract implied terms.
Formal requirements in Queensland and part performance.
Contract documents and their interpretation.
Remedies for breach of contract.
Recovery by builders of payment for work done - concept of entire contract, substantial performance and Quantum Meriut.

The Building Contract Process:
With particular reference and consideration of the major provisions in Australian Standard Forms of Building Contract.
Aspects covered include - Tenders, Subcontractors, Role of the Architect or Engineer, Variations, Time for completion and extension of time, Claims and payments, Determination and Arbitration.

BGB543 Law 4 - Torts and Arbitration

Aim:
To provide the students with an introduction to the law as it affects the Construction Industry.

Synopsis:
Law of Tort - Negligence, professional negligence, duty of care, liability, occupiers liability, nuisance, fraud and conversion.

Arbitration - Nature of comparison with actions at law. Reference by consent. The Arbitration agreement, parties subject matter, appointment of arbitrators or umpire. Conduct of an arbitration; powers and duties of an arbitrator. Rules of evidence. Validity of publication and enforcement of an award. Costs.

BGB643 Law 5 - Commercial Law

Aim:
To provide the students with an introduction to the law as it affects the construction industry.

Synopsis:
Sale of goods, Hire Purchase. Negotiable Instruments. Insurance Law. Partnership Law and General Principles of Company Law. Bankruptcy and Liquidation.

BTN402 Law and Legislation in Urban Design

Aims:
To clarify the role, potential, and limitations of legislation and controls for achieving good urban design.
To impart a working understanding of the legal framework affecting urban development in Queensland and interstate.

Synopsis:
The subject will investigate legislative controls and law reform related to urban design and the development process with specific reference to Queensland. Topics will include the potential range of legislative controls, principal relevant legislation in Queensland and its impacts on urban design, the development process, the roles of the developer, development control authority, arbitration process and of the State Government and influences of additional legislation (e.g. Group Title, Heritage Acts, Pedestrian Malls) on the urban design process.

LPP113 Law and the Professions

Aim:
To promote an understanding of law affecting Landscape Architecture.
To promote awareness of consultant resources.

Synopsis:
(a) Law: Law relating to Landscape Architectural practice.
(b) Allied Professions. Other professions involved with landscape design - roles, responsibilities, outlooks, work methods, existing and potential contribution, effectiveness, and impacts.

Material will be covered in lectures, tutorials, and office visits. Evaluation and assessment will be by written report.

BTB609 Law of the Built Environment

Aim:
To provide the necessary legal background to, and information on, Act, By-laws, and regulations to enable the student to appreciate the law as a constraint in the design and construction process.

Synopsis:
Laws, regulations and their interpretation. A review of the Australian and Queensland Acts, Local Authority By-laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land and land transfer. Introduction to professional liability, design registration, patents and copyrights.

BGP418 Legal Implications and Issues in Project Management

Aim:
To provide an awareness and understanding of the legal responsibilities and implications of project management. To outline how various legal requirements and obligations are integrated and balanced across a multidisciplined environment and to thus make the student aware of maintaining this balance and legal accountability. The subject will not deal in depth or cover all aspects in any one area of the law but will highlight those areas of direct relevance to the project manager so that he may at least recognise a problem and seek timely and proper advice. (The later subject of 'BGP423 Building Contract Law' will deal in depth with Contract Law relating to various building agreements and consultant employment contracts.)

Synopsis:
Introduction: Brief introduction to the legal system, the court system with special reference to the Local Government Court and Land Court and the legal profession.
Tort law: In particular the law of negligence and negligent misstatement. The overlap of the law of negligence on contract and other areas of the law.
Property law: Those aspects concerned with on site construction, underpinning, dewatering, use of cranes etc. Introduction to concepts of strata and group title. Concept of time sharing.
International law: In particular treaties and their effect on environmental and development control in sensitive areas.
Agency law: The need to operate within the ambit of expressed agreements. An awareness of exceeding authority by implication or by a course of dealings.
Local Government law: The process involved in approvals for rezoning, sub-divisions and general development applications.
Statutory regulations: Overview of regulations which control the design and construction of building works in Queensland, such as the 1975 Building Act, Fire Safety Act, Health Act, Factories Act, and Construction Safety Acts etc.
Industrial relations. Role of the building trade unions, the employers, the Commission. Awards and agreements. Workers Compensation. Strikes and lockouts. Public liability.

Assessment:
Assignment and examinations.

ARA528 Legislation of Built Environment

Aim:
To make the student aware of the importance of conformity with all legal aspects of work in the Built Environment.

Synopsis:
An examination of the Local Government by-laws and ordinances covering Building, Town Planning and Health, The Factories and Shops Act, and other acts and regulations affecting the Built Environment. Some consideration of Common Law and the Law of Contracts as these affect the work of a Technician.

ARB191 Liberal Studies I

Contemporary Civilisation -

Aim:

To help students understand the culture of the community in which they live.

Synopsis:

An outline study of the social institutions which men have shaped and the manner in which these institutions have moulded the outlook and activities of men. A general study of the Brisbane community. Field studies of selected aspects of the community. Social interaction between groups and subcultures; the poor, the derelicts, the suburbanites, the privileged. The reality behind the visible manifestation.

Language -

Aim:

To introduce students to the principles of the use of the spoken word in communication.

Synopsis:

Speech communication and social patterns, group processes, speech preparation and delivery, organisation of and participation in co-operative and competitive discussion.

Freehand Drawing -

Aim:

To develop skills and techniques in the Free use of pencil, ink, felt pen, and other media as aids to graphic communication.

Synopsis:

Sketching in pencil from nature, cast, and other areas. Development of tones and textures. Composition and presentation of sketching exercises. Sketching in ink by pen and brush, use of felt pen and similar media. Use of these media to present work undertaken in other study areas.

ARB192 Liberal Studies 2

Natural Environment -

Aim:

To give students an introductory course of study in the natural environment.

Synopsis:

A short course covering ecosystems, energy flows, interactions, producers/ consumers, food webs succession, trophic levels, biological magnification. Aspects of the Australian environment, Man as part of the ecosystem.

Written Communication -

Aim:

To introduce students to the principles of written communication; to emphasise the interdisciplinary nature of communication studies.

Synopsis:

Linguistic theory - the grammatical system, vocabulary and usage of standard English prose. The structure of modern prose -co-ordination and subordination, coherence and continuity. Reseearch method and reporting. Data collection and presentation. Social, cultural and psychological considerations in effective professional communication.

Applied Art -

Aim:

To develop skills and techniques in graphics, particularly in the use of pencil for geometrical and perspective presentation. To develop expertise in the use of colour in design.

Synopsis:
Lettering, layout of drawings, drafting techniques, perspective, projections, elementary graphic design. Theory of colour, hue, tone value, chrona, Rood's Law, colour circle, colour harmony, tonal and colour discord, use of poster colour, pictorial composition.

ARB291 Liberal Studies 3

Recent History -
Aim:
To make students aware of some of the more significant facets of recent history and in particular with relation to the built environment.

Synopsis:
The Twentieth Century: The Bauhaus, Gropius, Klee, Mies: The American Architects. Recent Planning and landscapes.

Modern Literature -
Aim:
Study of contemporary literature.

Synopsis:
A short study of several of the significant works of recent and contemporary literature. (Students will be expected to have read the set works during the vacation so that they may participate more fruitfully in the tutorials).

ARB292 Liberal Studies 4

European Cultural History -
Aim:
To make students aware of the broad sweep of European history.

Synopsis:
The Industrial Revolution as the forerunner to the 20th Century: The Enlightenment and the Romantics: The Renaissance Society and Art; Medieval Europe; The Dark Ages; Early European Civilisations.

Fine Art -
Aim:
To generate an appreciation of design throughout the ages as expressed in man's artifacts and works of art: To investigate design in this regard in Australia.

Synopsis:
Study of artifacts and the works of painters, sculptors etc., through the ages. Examination of the principles behind various movements: Study of Art and Design in Australia, from indigenous cultures to present day.

ARB391 Liberal Studies 5

Elements of Law -
Aim:
To provide the students with a broad general knowledge of the rules which regulate the daily lives of all citizens.

Synopsis:
Elements of law. The meaning of 'the law' in an ordered society. A broad survey of general legal principles including torts, contracts, the administration of the law, and the Queensland Criminal Code.

Government I -
Aim:
To gain an appreciation of the three tiered Government system in Australia in order to facilitate an understanding of the political environment in which professions practice.

Synopsis:
Australia's federal system of government:
The operation of the Cabinet system;
The operation of the major political parties;
The operation of the pressure groups;
The operation of the public service;
The community involvement in the process of government.
The course will concentrate on the Australian and Queensland political systems.

ARB392 Liberal Studies 6

Legislation -
Aim:
To provide the necessary information on Acts, By-laws, and Regulations to enable the students to understand the law as a constraint in the design process.
Synopsis:
A review of the Australian and Queensland Acts, Local Authority By-laws, and the regulations of statutory authorities as they affect the built environment.

Government 2 -
Aim:
To promote an understanding of the political environment in which professionals practise.
Synopsis:
Study of the effects of governmental systems, trade unions, employers federation and other public and private institutions on the development of communities in Urban and Regional planning and implementation. Various Case Studies.

BTB132 Light and Colour Studies

This course will complement and extend into detail studies the colour studies introduced in ARB123 Introductory Design.

Aim:
To extend the study of colour vision, colour harmony and contrast, mixing and the application of colour; to examine a range of contemporary theories relating to the use of colour in design; to introduce the study of the qualitative effects of lighting on form and colour in interiors.

Synopsis:
The course will consist of lectures and studio exercises. Lecture topics will include the physiological-psychological basis for colour relations and examine a range of techniques used to apply these theories in the design professions. Studio exercises and field studies will require the application of the theory covered in lectures to a variety of practical situations, through graphic studies, model studies and practical work.

ARP523 Management and Law I

(a) The management process in architectural practice includes management planning, organization, control, staffing, policy direction. Sole proprietor/ partnership/corporations/joint ventures. Financial management, accounting methods and concepts. Staff organization, capabilities, vertical/horizontal, team communication, office procedures/practice, office standard forms, reporting time forms. Organizational chart, reporting expenses, insurance, travel, expense accounts. (30 x 1hr)
(b) Architect's responsibilities in contract and tort, legal relationship of those involved, the legal system, Architects Act, law in relation to copyright, registration, partnerships, companies, contracts in general, disputes, land and building activities. Insurance in general terms, building contracts and documentation in brief, conditions of tendering, tendering procedures and analysis of tenders. (30 x 1hr)

ARP532 Management and Law II

(a) *Professional Practice in Architecture*

Architect's responsibility for inspection and certification, work programming, conditions of engagement and scales of fees, forms of building contract in detail, the construction industry in general, establishing the contract, duties as administrator, arbitration. (30 x 1hr)

(b) *System Theory and Architecture*

Introduction to the application of systems theory to architecture. (15 x 1hr)

(c) *Computers in Architectural Practice*

Trends and concepts in computers, and their relevance. Systems Approach. Architectural and application of Information Structures, Geometric and non-geometric data files. Input/Output devices. Applications software. Design Appraisal. (15 x 1hr)

(d) *Building Project Management for Architects*

Brief history of control of building projects. Management theory - planning, organising, controlling construction. Alternative Contractual arrangements. Market surveys for property development. Feasibility studies for property development. Decision Analysis. Financing property development. Selection and commissioning of design consultants. Design/Function/Performance Briefs. Programming and time control in building. Cost control in building. Project management of the design process. Project management during construction phase. Commissioning and maintenance of building projects. Building function and cost evaluation - value for money. Project management and leasing/selling property developments. (30 x 1hr)

MNP282 Managerial Psychology in Project Management

Aim:
Introduction to individual and organisational behaviour. To introduce and develop conceptual skills involved in this field and to develop practical skills in relating to and working with project personnel, contractors, consultants, employees etc.
Experiential exercises including role playing will be used along with normal lecture material.

Synopsis:
The field of individual and organisational behaviour is introduced with reference to human behaviour and individual differences, group development and interaction, employee motivation, job satisfaction, perception, leadership and interpersonal skills.
Students will be given an integrative picture of what a manager must do to be effective. Special but not exclusive attention will be given to the Project Management orientation.
Decision making strategies for different circumstances, assuming and assigning of responsibility and accountability, employee motivation, delegation skills and the impacts of organisational structures are examined.

Assessment:
Assignment and Final Examination.

BTB558 Manufacturing Technology 1

Aim:
1. To provide knowledge of industrial production techniques and how they relate to product design solutions.
2. To develop an understanding of production methods and techniques and their organisation in contemporary industry.

Synopsis:
The course will consist of lectures, studio work and field studies. Lecture topics will include: production techniques in relation to different materials, various methods for different finishing operations, various methods for forming, automatic and semi-automatic assembly and quality control methods. Field studies will consist of site visits to selected manufacturing industries. The application of the appropriate production technique should be developed through the design project.

BTB658 Manufacturing Technology 2

Aim:
1. To develop an understanding of advanced manufacturing processes and materials.
2. To provide knowledge of advanced manufacturing production techniques and how they relate to product design solutions.

Synopsis:
The course will consist of lectures, studio work and field studies. Lecture topics will include: organisation, planning and technologies required for CIM (computer-integrated manufacturing). The impact of CIM to product design solutions; advanced materials and their applications. Field studies will complement the lecture series. The application of CIM should be developed through the design project.

ARB526 Marketing

Aim:
1. To develop an understanding of marketing concepts and their relation to Industrial Design.
2. To provide knowledge on methodologies of forecasting and their relation to Industrial Design.

Synopsis:
This subject consists of a series of lectures and seminars and includes: marketing concept, market segmentation, marketing test, methodologies of forecasting, planning and organisation, costing of products, etc.

LPP153 Materials and Uses

Aim:
To provide technical information on materials and techniques of their uses in landscape construction.
To develop effective technical communication of construction intent.

Synopsis:
(a) Grading: Contour interpolation; grading for platforms, circulation routes, drainage; cuts and fills; estimates of quantities; grading drawings.

Students will work in tutorials with the opportunity to self pace their studies and will be assessed on class assignments and preparation of a grading design and drawing.

(b) Construction Elements: Characteristics of materials such as log and sawn timber, rock and stone, bricks and other clay products, in-situ and precast concrete, metals, glass, organic mulches, and water; methods of using them as ground surfaces, screens and fences, walls, steps and ramps, pergolas, decks, small bridges, ornamental pools, water features.

Material will be covered in lectures and tutorials. Evaluation and assessment will be based on production of construction details and accompanying notes.

BGB141 Material Science I

Aim:
To develop an understanding of the physical and chemical properties of materials and how they affect the construction and structural qualities.

Synopsis:
Properties, manufacture, use and analysis of timber, steel, concrete, and clay products, including investigation into their strength, density, hardness, porosity, plasticity, elasticity and deterioration. Laboratory and field testing of bricks, mortar, brickwork, concrete, timber, steel. Investigation and protection of materials against corrosion and fire.

BGB244 Material Science II

Aim:
To develop an understanding of the physical and chemical properties of materials and how they affect the built environment.

Synopsis:
Elements of material sciences: Introduction to atomic structure and bonding and its affects on a material's engineering property. Elementary metallurgy of iron and steel. Non ferrous metals and alloys. Joining of metals, fatigue, creep, brittle and ductile fractures, corrosion and protection. Properties, manufacture, use and analysis of asbestos cement, wood products, ceramics, polymers, paints, sealants and mastic products. Investigation into the materials strength, density, hardness, porosity, plasticity, elasticity, deterioration, optical, electrical, thermal and acoustic properties.

CHB497 Materials Science

Aim:
To enable students to appreciate how the properties of materials that are used in the built environment are determined by their fundamental atomic and molecular structure.

Synopsis:
Classification of materials as inorganic, organic and biological. Solids, liquids, and gases. Atoms and molecules. Crystalline and non-crystalline solids and their behaviour. Metals and alloys. Polymeric materials. Ceramics and other inorganic materials. Composite materials. The forming, shaping, and joining of materials. Stability of materials in service. Protective materials. Materials as sources of energy and in other 'non-construction' applications - e.g. lubricants and coolants.

MAB297 Mathematics for Construction

Aim:
To provide the necessary mathematics and statistical background to enable students to understand structures and quantitative management techniques in the building industry.

Synopsis:
Data handling and basic techniques, trigonometry, solution of triangles, systems of linear equations, basic matrix algebra. Introduction to probability and statistics, graphical representation of data, estimation, regression and correlation. Introduction to financial mathematics, simple and compound interest, annuities.

SVT300 Measurement

Aim:
1. To create an awareness and understanding of the importance of accurate measurement and recording of land survey.
2. To gain expertise in these areas.

Synopsis:
Introduction to all types of measurement connected with the built environment; importance of accuracy; contribution of the authorised land surveyor; introduction to maps and mapping; basic land subdivision and tenure of land; instruments used in measurement of land and sites; horizontal and sloping measurements; true and magnetic meridians; use of prismatic compass. Principles of use of dumpy level, tilting level, cowley level, staff; recording and reducing of levels. Leval Datum, Bench Marks, Contour plans; drawing for cut and fill. Measuring existing buildings; external elevations, plans, sections, details.

BGB005 Measurement of Construction I (Part-time)

Aim:
To develop and reinforce the concepts of Measurement for Building Works and to explain how these concepts relate to construction solutions in single and two storey load bearing buildings with simple foundations.

Synopsis:
Introduction to Quantity Surveying including the work of the Quantity Surveyor and his relationship with other members of the building industry. A study of mensuration and formulae involved in the calculation of length, area and volume. Detailed study and instruction in the process and methods of taking off and billing quantities in the trades roofer and roof plumber, plasterer, pavior, tiler and terrazzo worker, joiner, ironmonger, glazier and painter.
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades excavator, concretor, bricklayer, blocklayer and carpenter for simple buildings.

BGB131 Measurement of Construction IA (Full-time)

Aim:
To develop and reinforce the concepts of Measurement for Building Works and to explain how these concepts relate to construction solutions in single and two storey load bearing buildings with simple foundations.

Synopsis:
Introduction to Quantity Surveying including the work of the Quantity Surveyor and his relationship with other members of the building industry. A study of mensuration and formulae involved in the calculation of length, area and volume. Detailed study and instruction in the process and methods of taking off and billing quantities in the trades roofer and roof plumber, plasterer, pavior, tiler and terrazzo worker, joiner, ironmonger, glazier and painter.

BGB245 Measurement of Construction IB (Full-time)

Aim:
To develop and reinforce the concepts of Measurement for Building Works and to explain how these concepts relate to construction solutions in single and two storey load bearing buildings with simple foundations.

Synopsis:
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades excavator, concretor, bricklayer, blocklayer and carpenter for simple buildings.

BGB340 Measurement of Construction II (Part-time)

Aim:
To further develop and reinforce the concepts described previously but to relate these concepts to more advanced construction solution in concrete framed buildings having simple basements but complex foundations.

Synopsis:
Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concretor, bricklayer and blocklayer in simple basements underpinning, pier and beam RC frame and suspended slabs.
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete.

BGB246 Measurement of Construction IIB (Full-time)

Aim:
To further develop and reinforce the concepts described previously but to relate these concepts to more advanced construction solution in concrete framed buildings having simple basements but complex foundations.

Synopsis:
Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concretor, bricklayer and blocklayer in simple basements underpinning, pier and beam RC frame and suspended slabs.
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete.

BGB447 Measurement of Construction III

Aim:
To further develop concepts described previously in complex basement, foundation work and structural systems. To introduce the measurement of plumbing and drainage systems.

Synopsis:
Detailed study and instruction in the process and methods of taking off and billing quantities in complex basement and foundation work in the trades underpinning, excavator, concretor and all types of piling systems. Study and instruction will also be applied to complex structural systems in suspended slabs and walls.
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades plumber and drainer.

BGB545 Measurement of Construction IV

Aim:
1. To further develop and reinforce the concepts described previously but to relate these concepts to the measurement of internal engineering services not previously covered in complex structures.
2. To investigate and understand the different methods of Bill of Quantity presentation.

Synopsis:
Detailed study and instruction in the process and methods of taking off and billing quantities in the trades of mechanical and electrical engineer, external works and preliminaries. Detailed study and instruction in the process of Bill of Quantity presentation and the prospects for computer usage in Bill of Quantity preparation.

BGB444 Mechanical and Electrical Estimating

Aim:
To provide the student with an understanding of estimating techniques and procedures related to a variety of situations and conditions.

Synopsis:
Outline of the various mechanical and electrical systems and the parameters influencing their design and application. Types of estimates and tenders. Breakdown of preliminaries. Trade awards and wage rates. Take off procedures under major sections of works including costing and estimating make-up calculations. Systems costs in relation to total building, floor area, operating and maintenance cost, Builders allowance for each system.

LPA127 Natural Sciences (a)
LPA227 Natural Sciences (b)

Aim:
To introduce the students to basic principles of ecology, through a study of landform, soil, vegetation, and climate associations.

Synopsis:
A study of landform: hillslopes, rivers and their valleys, special features, coastal landforms, man and soil erosion. Broad introduction to soil formation and vegetation classification and associations with references to landform and climate.

CMB115 Oral Communication

Aim:
1. To give students the opportunity to apply communication theory and develop practical speech communication skills.
2. To introduce students to an understanding of the techniques of interviewing.
3. To introduce students to the organisation and practice of conferences.
4. To introduce students to verbal and non-verbal aspects of the interpersonal communication process.

Synopsis:
Students will be instructed in the principles of effective oral communication in individual and group settings and will develop skill and confidence through appropriate graduated exercises.

LPP071 Perception

Aim:
To ensure reasoned awareness of environmental perception.

Synopsis:
A study of the physiological, psychological and cultural aspects of perceptions to develop an appreciation of our interaction with society and the environment and the associated mental process of interpretation. Detailed study will be undertaken of perception related to volume, colour, shape, form etc. Lectures and seminars will be held; assessment will be project based.

ARA121 Perspective Presentation (a)
ARA221 Perspective Presentation (b)

Aim:
1. To develop skills and techniques in graphics, particularly in the use of pencil for geometrical and perspective presentation.
2. To develop expertise in the use of colour in design.

Synopsis:
Lettering, layout of drawings, drafting techniques, orthographic perspective, isometric and oxonometric projection, elementary graphic design. International drafting convention. Pictorial composition, colour and interior design with exercises in perspective of interiors.

LPP353 Planning in Developing Countries

Semester 5 (Part-time)
Semester 3 (Full-time)

Aims:
To explore major social and economic problems and potentials of the currently 'developing' countries.
To highlight the potentials and limitations of western approaches to urban and regional planning in such environments.
To explore the potential role of the Australian-trained urban and regional planner in developing countries.

Synopsis:
The concept of the Third World: characteristics and setting. Theories of national development relevant to the Third World. The roles of international agencies, governments, expatriate urban and regional planners, local expertise and the international community. The problems of rapid social and cultural change. The role of nationalism.
Urban issues: rapid urbanisation, dual economies, the provision of shelter, squatters, social and physical infrastructure.
Rural issues: definitions and theories of 'Development'. Rural Development Schemes and case studies: capital-intensive, man-power intensive, land intensive. The social effects of economic transformations. The future of urban-rural relations on developing countries.

LPP316 Planning Practice I - Local

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To provide an understanding of current local planning practice and of its legislative basis.

Synopsis:
The evolution of land use allocation. Development control and zoning ordinances in Queensland and Australia. Performance standards. Design briefs and design guides. Types of statutory and non-statutory local plans. Consultation and participation techniques at the local scale. Case studies of local plan preparation.

LPP326 Planning Practice II - Urban

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To provide a vehicle for the application of material taught in related subjects.
To provide an understanding of methods and techniques of urban analysis and design.
To provide an understanding of current urban planning practice.

Synopsis:
Legislation: the statutory basis for urban planning and development in Queensland and the rest of Australia.
Methods: statistical methods relevant to the urban scale, and data sources.
Design: the methods, elements and synthesis of urban-scale design.
Evaluation: evaluation of case studies of existing urban plans.
Synthesis: a worked example of urban plan preparation.

LPP336 Planning Practice III - Regional

Semester 3 (Part-time)
Semester 3 (Full-time)

Aims:
To provide an understanding of regional planning practice.

Synopsis:
The concept of the region - political, topographical, functional and nodal. Regional science. The aims of regional planning -integration of interests of town and hinterland; reduction of inter-regional disparities; resource development. Regulatory regional planning and regional development planning. Case studies of multiple function regional development schemes, T.V.A., Polders, Gladstone. Balance v.s. growth theories of regional development - equal territorial development and growth role theories. The statutory basis of regional planning - and lack of it - in Queensland and Australia. Case study of regional development scheme in Queensland. The politics of regional development in Queensland.

LPP346 Planning Practice IV - Metropolitan

Aims:
To provide an understanding of metropolitan planning practice in the context of metropolitan growth trends.

Synopsis:
The evolution of the modern metropolis. The physical economic, social and political problems of the contemporary metropolis. Australia. Analysis of success and emergent problems. Difficulties of metropolitan planning - scale, diversity, and speed of change. The statutory basis of metropolitan planning in Queensland and Australia. Case study - 'The Greater Brisbane Development Plan'.

LPP163 Plant Identification

Aim:
To promote plant identification techniques as an aid to increasing knowledge of a range of plants suitable for landscape design.

Synopsis:
Plant identification techniques with emphasis on field identification; sampling for identification purposes, identification sources, recording of results. Recognition of plants (trees, shrubs, herbs and grasses, annuals, water plants) to develop a working palette of plant materials for landscape design.
Tutorials and field work will be held. Students will develop individual plant resource material under guidance for assessment.

LPP165 Planting Design

Aim:
To encourage conscious integration of plants in design.

Synopsis:
Design characteristics of plant material and the use of plants as structural and design elements within the landscape; design characteristics, approaches to planting design, character, principles of planting design, scales. Planting design for typical landscape works in schemes such as gardens, parks, streets, highways, urban forecourts, and special uses; broad-scale planting designs.
Lectures and tutorials will be held. Evaluation and assessment will be undertaken through selected exercises and as part of Design.

LPB312 Plant Recognition

Aim:
To introduce students to plants of practical use in planning and landscape architecture training and practice.

Synopsis:
30 or 40 of the common plants in use will be studied. Emphasis will be on recognition and characteristics relevant to practical use, such as size, form, time of flowering, colour, etc. These plant studies will provide the vehicle for understanding plant nomenclature, some basic botanical terms, use of simple keys, collection and preservation of plant material, variation in plant material and some plant associations.

BTB442 Plant Requirements

Aim:
To study plants of practical use in the practice of planning and landscape architecture, with emphasis on the requirements of the plants for particular environmental conditions.

Synopsis:
The basic study of botany and plant physiology will be made both by lectures and fieldwork. Emphasis will be placed on the requirements of plants for growth under different environmental conditions, especially conditions commonly met with in the practices of planning and landscape architecture. Continuing plant recognition studies will be directed also toward selecting species most suited to different sets of environmental conditions.

BGB301 PM1 - Advanced Construction Methods

Aim:
To broaden the students knowledge of advanced construction and management problems, and the solutions and techniques in dealing with them, and to develop within the students an enquiring and innovative approach to such problems.

Synopsis:
The main thrust of the subject will be to broaden the education and experience of students by setting them construction and site management problems which are typically encountered by a project manager.

Alternatively or in conjunction with the above, case studies will be carried out by the students on projects which have unusual construction problems or techniques.

Problems and case studies would cover areas such as:

Site planning organisations for small, medium and large projects
Material handling and site equipment selection.

BGB529 PM2 -Quantitative Techniques

Aim:
An introduction to the application of quantitative techniques in the Building Industry.

Synopsis:
Review of statistical methods. Data recording and presentation techniques. The weighted index. Probability and expected value. Frequency and probability distributions. The normal distribution and control charts. Regression and multiple regression. Work study technique. Value analysis in building design and production. Operation Research: Linear programming - graphical, simplex, transportation and assignment methods. Dynamic Programming. Decision making under conditions of certainty and uncertainty. Decision trees.

BGB547 PM3 - Construction Planning Techniques I

Aim:
To develop skills in the application of construction planning and control techniques.

Synopsis:
Bar charts. Critical path networks - arrow and precedence diagrams.
Updating, control and reporting techniques. Line of Balance.
Resource Levelling, Least-cost optimisation.
Multiple Activity Chart.

BGB548 PM4 - Construction Planning Techniques II

Aim:
The advanced application of quantitative techniques to construction planning and control.

Synopsis:
Basic v. Production Planning.
Planning and control for various types of projects.
Expediting Contracts. Misuse and abuse of Planning.
Flowline scheduling.
Legal problems associated with CPM.
Simulation Techniques.
Operation Research - Linear Programming.
Graphical, simplex, transportation and assignment methods.
Dynamic programming.
Decision trees.
Decision making under conditions of certainty and uncertainty.

BGB510 PM5 - Project Cost Control

Aim:
To develop skills in the financial planning and cost control of the consruction project.

Synopsis:
The Capital Expenditure Process, Project Control Concepts. The development time relationship, cost consequences of design decisions. Preconstruction Budget, Budget Management, Materials Control. Performance analysis. Estimating final cost to complete. Trend evaluation. Forecasting Techniques. Progress Reports. Cost Reports. Financial Status Reports. Computer Applications in Expenditure. Control and Forecasting. Equipment Policy. Equipment Economics. Maintenance Management. Contract administration including maintaining records, progress payments, regulating extensions and prolongation claims, rise and fall, prescribed payments, sundry administration.

BGB651 PM6 - Building Development Techniques

Aim:
To provide students with a knowledge of the steps and the basic techniques used in the building development process.

Synopsis:
Aims of feasibility studies. Market studies. Location surveys. Cost analysis. Evaluation techniques, both conventional and discounting. Cash flows analysis and including Sensitivity analysis.

Authorities, develoment restrictions, services, profitability, commercial assesment, land values, options. Purchase - terms, legal documentation, consolidation, surveys. Commissioning design team -building use, facilities, quality, staging, financing, tenants. Instruct Consultants, analyse alternatives, value engineering, marketability, income and outgoings, commercial assessment from sketch through to working drawings.

Cost control through cost planning, from sketch design to completion. Time control through umbrella, design, and construction programming. Tender procedures and negotiations, contract documentation. Leasing, brochures,

publicity, letting agents, targets. Authorisation of construction payments, monthly reports, co-ordination meetings, refinancing negotiations. Finalisation of project, certificates, finalise building contract variations. Financing projects and Cash Flow.

BGB606 PM7 - Land Development Studies

Aim:

To provide students with an understanding of the structure, operation and control of the land development industry.

Synopsis:
The Politico Economic Framework - Traditional and contemporary roles of the public and private sectors.
Land Use Plans and Approval Mechanisms - Types of town plans and develoment control mechanisms.
Aspects of Potentially Subdivisible Land - Factors affecting the direction, timing and area of land ripe for development and subdivision, and characteristics of land development projects.
Production Aspects of Land Development - The production network -sequence, timing and identification of problem areas, lodgement of applications and control of progress.
Layout Design Aspects - Design considerations. Some case studies.
Financial Aspects of Development Projects - The Feasibility Study. Cash flows analysis. Sources and costs of finance - Time and time delays.
Marketing Aspects of Development Projects - the competitive environment, pricing mechanisms and marketing strategies.
The House Building Industry. Trends and Prospects in the Development Industry.

LPB414 Population and Urban Studies

Aim:
1. To extend and deepen the students' understanding of the way urban areas function and thus to provide a background against which students can evaluate current urban development practices and the requirements of land-using activities.
2. To introduce students to techniques of analysing and predicting population structure and changes and to enable students to understand the effects of these changes upon the built environment and in other social and economic areas.

Synopsis:
The world-wide process of urbanisation; national and regional settlement patterns in theory and in practice, including size/function relationships, changes in settlement patterns, and the problems of rural settlements.
The dynamics of urban areas: the relationships and requirements of urban activities (especially residential, work, and leisure activities); theories of city form and change; the problems of the CBD, the CBD fringe, and the urban/rural fringe. Case studies of Australian settlements.
Sources of Population Statistics; Methods of expression and graphical techniques; Vital Statistics; Changes in Population; Socio-Economic Characteristics; Population - Spatial Characteristics; Work Force; Population and Dwellings; Trends and Predictions; Implications for Planning.

BGB544 Post Contract Services

Aim:
To indicate the broader aspects of Quantity Surveying practice and to give instruction in the performance of these services.

Synopsis:
An in depth study in the method of adjustment of Provisional items in the Contract; a study of Rise and Fall entitlements under various formulae, methods

of preparing Valuation Certificates for Progress Payments, and modern cost control techniques used on jobs during the construction period including review of relevant contractural clauses applicable to all items within Semester Study.
An in depth study of various aspects of Quantity Surveying Practice including preparation of reports on tenderers priced Bills of Quantities, claims and errors in the Bill of Quantities, adjustments to the Contract Sum for Variations, Feasibility Studies and different types of Contractural Arrangement and selection of Contractors.

LPP032 Presentation Aids and Issues

Aim:
To introduce and develop a working familiarity and appreciation of available techniques and resources for effective presentation.
To cultivate flexibility, adaptability and experimentation in presentation by exposure to a wide variety of presentation approaches.
To provide technical and other information related to visual simulation in design to allow the student to anticipate and appreciate complexity in design presentation.

Synopsis:
Scale study models: use of model scope, materials, structure and joinery; reproduction techniques including dyeline papers and manipulation; photographic aids: camera lenses, filters, black and white and colour, dark room, copy equipment and techniques; use of artiscope equipment; articles for publication: camera-ready artwork and paste-up; exhibition and display organization; print processes and production and audio-visual.
Materials will be covered in lectures and demonstrations. Evaluation and assessment will be project based.

ARA341 Presentation Media

Aim:
To introduce students to various techniques in documentation and presentation of projects.

Synopsis:
Various media for presentation and documentation of projects: application of techniques and skills already gained, use of computer graphics and electronic drafting aids.

LPP177 Principles of Landscape Planning

Aim:
To promote understanding of the theoretical framework of landscape planning.

Synopsis:
Historical background and development to landscape planning; larger scale planning theories, methods, and techniques; the role of the Landscape Architect in regional planning teams; origins and processes of landscape form and character; physical and cultural determinants of landscape; broader landscape issues; introduction to landscape assessment approaches.
Lecture and seminars will be held. Evaluation and assessment by written report.

LPP031 Problem Solving

Aim:
To introduce and establish fundamental concepts, principles and approaches to creativity, problem-solving and design processes.
To encourage creative thinking and to develop systematic thinking and working habits.
To establish an appreciation and understanding of problem-solving and decision-making as fundamental to design.

To introduce and examine the design process and related design methodologies within a range of landscape design contexts and tasks.

Synopsis:
Creativity and imagination, functions and processes; comparative methods: scientific, planning and design; logic, deductive and inductive reasoning, rational and lateral thinking; synectics, feedback and other processes; mental blocks and aids; introduction to gaming techniques and other tools.
The design process and the role, function and output of its constituent parts: problem identification, objectives and goal formulation, data and selection (inventory), analysis, synthesis and evaluation; forms of design output; introduction to critical path, programming and brief formulation.
Material will be covered in lectures and seminars. Evaluation and assessment will be based on a report.

LPP331 Procedural Planning Theory

Semester 3 (Part-time)
Semester 3 (Full-time)

Aims:
To introduce students to the literature on procedural planning theory and to evaluate critically the concept of rational planning; to examine alternative theoretical positions of relevance to urban and regional planning.

Synopsis:
The development of procedural planning theory; the rational planning process; comprehensive planning; mixed scanning; flexibility and commitment; the management of uncertainty; the relationship between strategic and local plans; criticisms of and alternatives to procedural planning theory.

ARB509 Product Assessment and Selection

Aims:
To develop a methodical approach to the choice of building products, furniture and fittings, using both quantitative and qualitative parameters.

ARB609 Professional Practice

Aim:
1. To provide an understanding of the professional practice and legal obligations of the interior designer.
2. To study the office organisation, administration, management and commercial aspects of the interior design practice.

Synopsis:
The course will consist of a series of lectures on business ethics in relation to the professional designer, designer/client and contractor relationships, management principles, office administration, basic books and records, office procedures, the legal system, business law, law of contract, sale of goods act, consumer protection act, professional liability, insurance, finance, bankruptcy, warranties, guarantees, patents, copyrights, registered design.

BTB633 Professional Practice

Aims:
1. To provide an understanding of professional practice.
2. To outline industrial designers responsibilities in relation to codes of professional conduct.

Synopsis:
This subject explores the role and responsibilities of the industrial designer in professional practice. Lectures to cover: job administration, liability, design protection, designer and client relationships.

LPP043 Professional Presentation

Aim:
To foster proficiency in written and oral communication techniques.

Synopsis:
Formal writing techniques including reports, instructions, proposals, specifications, and correspondence; formal oral presentation techniques including meetings, conferences, interviews, and speeches (informative and persuasive). Evaulation and assessment is by written report and verbal presentation.

LPP361 Professional Procedures and Ethics

Semester 6 (Part-time)
Semester 4 (Full-time)

Aims:
1. to develop in final year students an awareness of the ethical issues and dilemmas confronted by professional planners in public and private practice;
2. to explore theoretical and practical issues of planning office organization, administration and management.

Synopsis:
The nature and role of a profession. Professionalisation and semi-professions. The code of practice and ethics. Situations of professional conflict. Expert witness.
Office practice and procedures: setting up an office, filing, costing, control systems, preparation of briefs, estimating.

ARB714 Professional Studies

Aims:
1. To provide a broad and general coverage of the laws which regulate the daily lives of all citizens.
2. To provide necessary information on Acts, By-Laws, and regulations to enable the student to appreciate the law as a constraint in the design and construction process.
3. To develop understanding of accounting practices and procedures.
4. To encourage an understanding of the workings of a professional office.

Synopsis:
This subject will be undertaken in four parts each of equal emphasis.

A. Introduction to law -
What is law? Legal rules distinguished from other types of rules. Who makes our laws? Discussion of legislation and judge made laws. Introduction to the law of contract. Aspects of the law of torts.

B. Law of the Built Environment -
A review of the Australian and Queensland Acts, Local Authority By-Laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land - land tenure, descriptions and status of land, rights and interests in land, Torrens system, role of registering offices. Introduction to professional liability, design registration, patents, & copyright.

C. Introduction to Accounting -
Accounting as an information system. Double entry accounting and the accounting cycle. Mass processing of data by special journals and automation. Voucher system. Cash and accounts receivable. Long term assets. Liabilities and owner's equity. Partnership accounting.

D. Office Practice -
The place of the professions in private, government, and other areas. Relationship of office, client, consultants, contractors; office documentation; office procedures; a general introduction to the business, legal, and financial sides of the professions.

ARB495 Professional Studies 1

Building Economics

1. Estimating - square cost preliminary estimates through to detailed elemental estimates, definition of elements. Cost Planning - from inception to tender. Types of contract. Post Contract Control. Built-up Rates - simplified price analysis. Building Services Cost Control. Elemental Analyses. Feasibility Studies (example). Detailed elemental analysis - practical by students based on drawing and specification.
2. Real Property Markets. Structure and Operation of the Construction Industries. Stability and Instability. The Finance Industries. Cost and Revenues Analysis. Project Evaluation. Project Control. Economics of Design. Viability of Practices.

ARB595 Professional Studies 2

Management and Law

1. The management process in architectural practice includes management planning, organization, control, staffing, policy direction. Sole proprietor/partnership/corporations/joint ventures. Financial management, accounting methods and concepts. Staff organization, capabilities, vertical/horizontal, team communication, office procedures/practices, office standard forms, reporting time forms. Organizational chart, reporting expenses, insurance travel, expense acounts.
2. Architect's responsibilities in contract and tort, legal relationship of those involved, the legal system, Architects Act, law in relation to copyright, registration, partnerships, companies, contracts in general, disputes, land and building activities. Insurance in general terms, building contracts and documentation in brief, conditions of tendering, tendering procedures and analysis of tenders.

ARB695 Professional Studies 3

Aim:

1. *Professional Practice in Architecture*
   Architect's responsibility for inspection and certification, work programming, conditions of engagement and scales of fees, forms of building contract in detail, the construction industry in general, establishing the contract, duties as administrator, arbitration. (30 x 1 hr)
2. *System Theory and Architecture*
   Introduction to the application of systems theory to architecture. (15 x 1 hr)
3. *Computers in Architectural Practice*
   Trends and concepts in computers, and their relevance. Systems Approach. Architectural and application of Information Structures, geometric and non-geometric data files. Input/Output devices. Applications software. Design Appraisal. (15 x 1 hr)
4. *Building Project Management for Architects*
   Brief history of control of building projects. Management theory - planning, organising, controlling construction. Alternative Contractual arrangements. Market surveys for property development. Feasibility studies for property development. Decision Analysis. Financing property development. Selection and commissioning of design consultants. Design/Function/Performance Briefs. Programming and time control in building. Cost control in building. Project management of the design process. Project management during construction phase. Commissioning and maintenance of building projects. Building function and cost evaluation - value for money. Project management and leasing/selling property developments. (30 x 1 hr)

BGP416 Project Cost Control and Financial Administration

Aim:
To provide basic understanding of overall project cost control and financial administration. To outline conceptually various investment and financial decisions with emphasis on the development-time relationship.

Synopsis:
Concept of total cost of a project of which the construction phase is only a part. Emphasis throughout on establishing an estimated final cost to complete.
Overview of management accounting and reporting. Project costing procedures including quantity surveying, estimating, budgeting and project cost control systems, financial statements, cost control reports, including functional responsibilities. Understanding of variations, rise and fall and other construction contract adjustments.
Investment decisions of a commercial building project. Required rate of return, risk analysis, capital budgeting, funding methods, taxation, development cash flow and forecasting.
Financing decisions. Cash flows, cash management and effect of credit facilities during the construction phase. Capital structure. Forms of short, intermediate and long term project finance. Construction equipment policy and economics -hire, lease or buy.
Comparison of traditional and overall project management cost control systems. Discussion and demonstration of applications of computer simulation and latest trends in software packages.

Assessment:
Reports, and final examination.

BGP415 Project Economics and Cost Planning

Aim:
To provide an understanding of building economics, cost planning and control concepts used in efficient project design management and evaluation of a project related to land, environmental or property development.

Synopsis:
Analysis of economic factors and its influence on the overall design process. Effect of fiscal policies etc. Market supply and demand curves, equilibrium in market situations. Identifying real and speculative demand forces related to property development. Structure and determinants of construction demand and output within the industry.
Cost implications of design variables and awareness of cost consequences of decisions in design management. Cost implications of various construction methods including the influence of site and market conditions and economics of pre-fabrication and industrialisation of building components.
Purpose and form of approximate and Conceptual estimating techniques. Application and use of cost analyses; cost data; cost research.
Cost in Use. Concepts and terminology; current and future payments, maintenance and running costs; the life of buildings, building components and plant; prediction errors, effect of taxation and insurance; maintenance cost records.
Cost Planning Theories and Techniques - Plan of work; cost control procedures; information requirements of consultance and clients during the design management stage.
Building Maintenance Manuals, objectives and preparation guidelines.

Assessment:
Reports, and final examination.

BGB405 Project Equipment and Safety

Aim:
To make the students aware of the types, functions and limitations of the equipment and machinery that is used in the construction industry, thereby enabling them to plan their building operations more efficiently and safely.

Synopsis:
Study of the Construction Safety Act 1971 - 73 and Regulations. This includes fixed, mobile and portable equipment, hoarding, gantries, scaffolding and other miscellaneous gear. Crame, hoist and other relevant codes. Responsibilities and certification of site operatives. Safety problems in erection, demolition and excavation work. Accident investigation, analysis and prevention techniques. Frequency and severity rates and training, management responsibilities.

BGP411 Project Management and the Entrepeneurial Process

Aims:
Clarification of the project management role and responsibilities in the overall planning, control and co-ordination of a project from inception to completion aimed at meeting a client's requirements and ensuring completion on time within cost and to required quality standards.
To emphasise the essential principles of integration related to the multidisciplined services required for any land, environmental or property development.
To understand the principles and techniques utilised in the appraisal of public and private development projects.
Note: The following topics will be directly related to and illustrated by case histories drawn from the land and property development industry.

Synopsis:

Project Management (11 wks):
Characteristics, applications and implications of: Project Management techniques - fast tracking, design and construct, construction management, progressive letting etc.; project organisational structures; and Project Management Types; consultative, executive or entrepeneurial.
Project Management objectives of cost, time and quality.
Project Managers Brief, his role, outline of legal responsibilities and authority. Employment contracts and reimbursement. Modus operandi. Communications and relationship with and representation of the client.
Management continuity, overview of the total process from inception to the occupancy and commissioning of the project. Appointment and integration of project consultants.
Information systems, Systems theory and communications.
Art of Consulting.

The Entrepeneurial Process (17 wks):
Concept of on-going commercial assessment from inception through design management to final completion.
Marketing concepts for self developed projects from inception through design management to final sale.
Preliminary Brief. Determining the clients needs and budget or alternatively the market demand in the self developed speculative project.
Feasibility Studies. Market research and appraisal. Identifying real and speculative market demands. Analysis of new concept or market leader ventures. Regional, sociological and demographic studies. Evaluation of locational requirements and suitability of the particular site.
Town Planing and Developmental Approval: Zoning, planning approvals, requirements and application procedures, objections, Council processing; fees and charges, approvals timing, flow charts.
Land Acquisition methods; property consolidation; joint ventures.

Environmental Impact Studies.
Economic evaluation: cost benefit analysis, risk and sensitivity analysis, return on investment, gearing and sinking fund; capital costs, annual outgoing and income; evaluation techniques, conventional and discounting.
Englobal Land Development: Long term governmental strategies and land use plans. Particular characteristics affecting land development, fiscal influences, feasibility studies and cash flow analysis. Production sequence, staged developments and inherent problem identification and control.

Assessment:
Assignments and examination.

BGP414 Project Planning Techniques

Aim:
To develop an understanding and a high level of competence in the design of planning and control techniques for all stages of project management.
It is expected that students will understand basic planning techniques.

Synopsis:
Emphasis in the subject will be upon student executing practical assignments.
Review of Critical path networks for project planning, arrow and event methods. Updating, control and reporting techniques. Resource, time and cost analysis of CPM and PERT. Production planning and control using Line of Balance/Flowline techniques.
A critical examination of CPM and case studies on its misuse and abuse in contracts.
Development of basic planning to produce detailed repetitive production planning of project components and elements, including cycle times and balancing.
Planning for various project types and its processes, including systematic analysis of methods, techniques and alternatives.
Use of multiple activity charts in planning and monitoring progress, and material handling time analyses in repetitive projects.
Discussion and demonstration of latest applications of simulation, operation research methods etc. to the land and property development industry.

Assessment:
Note: The ratio of contact to private study time for this subject will be 1:2.
Tutorial exercises, major assignments and final examination.

SVB203 Project Survey

Aim:
To enable the students to gain practical experience in the use of surveying and construction instruments.

Synopsis:
Students will be required to carry out two surveys of a building site of approximately one acre in area of undulating ground. The first survey is to be a chain survey with reduced levels taken on a grid to show the nature of the topography. There will be a reasonable number of natural features which are to be incorporated in the survey. The second survey on an alternative site of the same size is to be done by theodolite traverse. Students are to carry out exercises for site preparation and setting out of a small and a large building with associated external works. This to include provision for all temporary structures and datum marks etc. The set out to be carried out on flat and sloping sites. Exercises for students to check building verticality, plus use of the auto plumb instrument.

LPB504 Quantities

Aim:
To foster understanding of the need for the techniques of measurement and costing related to the practices and work of Landscape Architecture and Urban

and Regional Planning.

Synopsis:
Measurement and costing of time, resources, and materials for professional services, production of documents, and implementation of projects. The techniques and tools available for both preliminary and detailed measurement and costing and their control.

Time and percentage measurement and costing related to the professional services of promotion, obtaining commissions, allocating time and resources to projects, and the use of consultants. Costs of documents, (reports, plans, promotional materials) including relative costs of different methods of production. Units of management and costing for broad development types (residential, industrial, commercial etc. by either land use or building-type) and for more detailed landscape architectural and urban design projects. The techniques of cost control.

LPP137 Research Aids

Aim:
To promote awareness of a range of research methods and aids and to develop relevant skills.

Synopsis:
(a) Computer Techniques and Application: Word processing and office production, computer graphics and drafting, available software packages, current and potential applications to various professional sectors.
(b) Social Analysis: aids to facilitate assessment procedures; social surveys and techniques; questionnaires; collation and application of survey results.
(c) Introduction to Elective Design Study. Scope of landscape architectural research; problem statements, arriving at a topic/direction, programming, resources available, literature searches, presentation techniques.

Lectures, seminars, tutorials will be held. Evaluation and assessment will be through participation and the production of a detailed brief/work plan for Elective Design Study.

BTN501 Research Dissertation Elective (Urban Design)

Aims:
To encourage individual research and its presentation in elective topics.

Synopsis:
Each student will be required, with tutorial guidance, to prepare a dissertatin on an individually selected topic approved by the Course Co-ordinator. The student will be required to show evidence of proficiency in research and application of research in the development of design ideas.
This may be achieved through an emphasis on a design project or through a written process.
The balance between theory and design application in the dissertation may vary. However, a dissertation which focuses on a specific design project must be supported by a theoretical analysis sufficient to define the problem and to explain how the design proposed satisfies the conditions for a solution. Coversely a dissertation which focuses on the development of a theory must sufficiently illustrate the practical implications of the theory for the relevant classes of design task.
The dissertation will be supported by work undertaken as Research Electives.

LPP178 Resource Management

Aim:
To develop capacity of students to establish operational objectives for resource conservation and management.

Synopsis:
Resource management as an approach to the resolution of competing claims on the natural and man-made environments. Types and causes of conflicts; aims and processes of resource management. Alternative approaches and techniques; resource inventories and evaluation, environmental impact analyses and statements, statutory requirements. Planning and management of regional landscapes in Australia and overseas. Resource management policies. Policy studies of land and other resource management schemes.
Lectures, tutorials, seminars, and field work will be held. Evaluation and assessment by participation and report.

LPP343 Resource Management

Semester 4 (Part-time)
Semester 2 (Full-time)

Aims:
To discuss resource management as an approach to the resolution of competing claims on the natural and man-made environments.

Synopsis:
Aims and processes of resource management. Alternative approaches and techniques; resource inventories and evaluations. Environmental Impact Analysis and Statements, statutory requirements. Multi-purpose schemes and the planning and management of regional landscapes in Australia and overseas. Policy studies of land and other resource management schemes.

LPP333 Rural Land Use and Planning

Semester 3 (Part-time)
Semester 1 (Full-time)

Aims:
To enable students to analyse the characteristics and locational requirements of major rural land uses; and to be capable of developing planning and landscape proposals for the improvement of rural environments and rural settlements.

Synopsis:
Rural Land Use patterns. The characteristics and dynamics of rural land uses - forestry, pastoral and arable agriculture, extractive industries, water collection, recreation and tourism, conservation systems. Impacts of Rural Resource Developments. Rural Land Evaluation. Rural planning and characteristics of rural settlements. The rural urban fringe. Rural issues, problems and conflicts. Case studies of rural land use, abuse and conservation in Australia and overseas. Associated project and field work.

LPP123 Site Planning

Aim:
To develop knowledge and skills in analyzing, interpreting, and evaluating physical, visual, and aesthetic characteristics of the site to determine potentials and constraints for development and utilization.
To integrate aesthetic criteria and issues with technical/practical aspects of site planning and design.
To consolidate and integrate knowledge and skills from related support subjects.
To promote an increased understanding of design through the use of formal criticism techniques.

Synopsis:
Applications of site planning principles and theory at all scales and types of projects; natural and man-made influences in physical design; environmental implications of design decisions; siting and integrating activities, structures and services; site utilization and selection; applications of site survey and analysis

methods and techniques; land form manipulation. Alternative concept formulation and evaluation as a critical decision-making phase of the design process emphasised.
Studios will be supplemented by lectures and seminars on theory, methods and techniques. Staff from related support subjects may be involved in projects and their assessment.
Evaluation and assessment will be based on project work and the submission of a design critique.

LPP313 Site Planning

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To enable students to analyse the physical characteristics of sites which constrain or offer potential for human utilization.

Synopsis:
Natural influences in physical planning - geology, topography and slopes, soils, climate, hydrology and vegetation. Ecological considerations in design and development processes. Inputs of natural hazards and other physical constraints on design including air, water and noise pollution. Development impacts to natural environmental elements. Landscape evaluation techniques.

LPP133 Site Survey and Analysis

Aim:
To develop a sympathetic understanding and appreciation of site and site interpretation with an emphasis on determination of site potentials and constraints.
To develop skills and understanding of survey, analysis and interpretation techniques and procedures at all scales of work.
To provide technical information related to maps and air photo use and interpretation.
To develop skills in effective communication of the output of survey and analysis phases.

Synopsis:
(a) Techniques: Objectives and principles of the site planning process; objectives of survey and analysis phases; types of information required: sources, availability and reliability; field work, methods and equipment; implications of natural and man-made site conditions; types of documentation formats determined by scale and problem context; case studies.
(b) Maps and Air Photo Interpretation: Types, sources, uses and availability of maps and airphotos; map reading: contours, land form, cross-sections; methods and techniques of production; introduction to photogrammetry and use of stereoscope; introduction to remote sensing.

Material will be covered in lectures, demonstrations and tutorials. Evaluation and assessment will be based on class exercises and application in Design.

LPP324 Social Aspects of Planning

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To introduce students to a number of basic sociological concepts of relevance to urban and regional planning.

Synopsis:
The nature of society and the importance of theories about its composition (especially structural, conflict and action approaches). Theories of social class -

determinants and indicators. The mechanism of socialisation (into groups, families and professions). Stereotypes, subgroups and subcultures. 'The Uses of Disorder'. The sociology of deviance, social controls and crime. Environment and society (including social aspects of environmental perception). Urban social structures and social networks. The concept of community. Urban and rural patterns in Australian society: inner suburbs, older suburbs, fringe suburbs, rural towns, isolated settlements, social aspects of natural disasters.

LPP344 Social Planning

Semester 4 (Part-time)
Semester 2 (Full-time)

Aims:
To introduce students to basic social theories of relevance to physical planning and to the formulation of social planning policies.

Synopsis:
The importance of theories about the structure and organisation of modern western societies, and its organisation into groups and classes. Stereotypes, subgroups and subcultures. The sociology of deviance, alienation and conformity. The concept of community. Urban and rural patterns in Australia - inner and outer suburbs, country towns and metropolitan regions. The aims and conduct of social surveys. The genesis social welfare policies in Australia -employment, health, housing, income and education. Community development and organisation schemes in Australia and overseas. Public participation and community action; planning aid and advocacy planning.

LPP370 Special Planning Study

Semester 6 (Part-time)
Semester 4 (Full-time)

Aims:
To develop students' abilities to identify and synthesise relevant information and to reach valid conclusions in an individual investigative study.

Synopsis:
The study is normally required to be of 25,000 - 30,000 words in length and will normally be related to the Concentration and Option Projects chosen by the student. It provides an opportunity to pursue in depth an issue or problem within the student's area of Concentration. Its precise subject and objectives will be formulated in consultation with an appropriate study tutor. The study will be assessed on the extent to which it fulfills its initial objectives. It will include identification of a relevant issue and effects on different land uses. Special reference will be made to local conditions and associated problems. This subject may include field work off campus.

LPP167 Specialised Issues

Aim:
To provide detailed technical information on a range of specialised natural environment issues as an aid to more competent advanced design.

Synopsis:
Specialised ecological/horticultural based issues, water bodies in urban areas (creeks, lakes, canals, ponds), and their rehabilitation; foreshore restoration; historical landscapes; plants for stress situations (pollution, salt, flood, interiors etc); development of 'character' types; specialised soils and management factors. Lectures, tutorials will be held and some field work may be included. Evaluation and assessment will be by written report and application of knowledge in Advanced Design projects.

ARP512 Specification

1. Function of the specification, its legal and contractual implications, construction and terminology of the specification, specification writing by trades and functions, schedules and enclosures, expendable draft specifications, master specifications.
2. Word processing systems.

BGB520 Specification

Aim:

1. To develop an understanding of the principles involved in the writing of all types of specifications and an understanding of the legal implications of such a document.
2. To develop an understanding of the principles involved in the writing of specified Bills of Quantities. Instruction in the integration of specification notes into trade preambles and Bill of Quantity items.

Synopsis:
The compilation of specifications complementing other architectural documents. Definitions, objects and purpose of a specification. Specification as a contract legal and working document; relationship to the Bill of Quantities and drawings; schedules; reference material and specification writing. The use of 'Master' specifications; outright and performance specifications and preparation of specified Bills of Quantities.

ARB491 Specifications

Aim:

1. Function of the specification, its legal and contractual implications, construction and terminology of the specification, specification writing by trades and functions, schedules and enclosures, expendable draft specifications, master specifications.
2. Word processing systems.

ARA541 Specifications

Aim:
To acquaint the student with the processes of specification writing, especially as applied to buildings.

Synopsis:
Functions of the specification and its contractural significance. Construction of the specification and terminology. Specification writing for building by trades and functions. Exercises in actual specification writing will be related to studies in other areas such as Construction and Design.

ARA440 Structural Mechanics

Aim:
To ensure that the student has a sound knowledge of elementary structural mechanics as applied to building members in reasonably straightforward design.

Synopsis:
Forces and reactions. Bending moments and shear force diagrams. Stress, strain and deflections. Loads on buildings and structural requirements, design of steel members, redius of gyration, moments of inertia, section modulus. Design of timber members, design of concrete members. Connections. Exercises will involve principles of statics, calculations, and graphic solutions to simple structural problems.

CEB353 Structural Mechanics 1

Aim:
To provide the conceptual and theoretical basis for further studies in structural analysis and design.

Synopsis:
Forces and reactions. Simple truss analysis. Bending moments and shear force diagrams. Stress strain and deflection. Loads on buildings and structural requirements. Moment of inertia and radius of gyration.

CEB453 Structural Mechanics 2

Aim:
To apply previously learnt concepts to the analysis and design of beams.
Synopsis:
Bending stress in beams. Section modules. Design of timber beams. Shearing stresses in beams. Design of timber connections. Truss analysis. Deflections. Design of steel beams.

CEB553 Structural Mechanics 3

Synopsis:
Concrete Walls. Moment distribution. Continuous beams and slabs. Two way slabs. Flat slab systems. Serviceability requirements. Foundations. Pile Caps. Foundation Beams. Principles of 'T' and 'L' beams. Deep beams. Principles of Prestressed Concrete. Brickwork Code and Design.
All topics other than Prestressed Concrete are to be taught with structural examples from Buildings, to be calculated by the student with reference to the SAA Codes.

CEB653 Structural Mechanics 4

Synopsis:
Qualitative behaviour of indeterminate structures. Design of Portal frames. Industrial building framing systems. Frame stability. Composite construction. Underpinning and shoring. Principles of Plastic Design.
All topics other than Plastic Design are to be taught with structural examples from buildings, to be calculated by the student with reference to the SAA Codes.

BGB142 Structures I

Aim:
To provide students with an understanding of structural behaviour. To develop the skill of Structural Analysis and Design.

Synopsis:
Equilibrium of forces. Shear forces and diagram, Bending moments and diagram, Loading on structures and loading code, Truss analysis and force diagram, Stress and stair, Tension and compression members, Bending theory, Design of timber beams, columns and connections, Design of steel beams and columns, Introduction to indeterminate structures.

BGB242 Structures II

Aim:
To provide students with an understanding of structural behaviour. To develop further the skills of Structural Analysis and Design.

Synopsis:
Analysis of indeterminate structures, Frame analysis, Moment distribution, Design of steel connections and structures, Design of concrete columns and walls, Design of composite beams, Theory of prestressed concrete, Brickwork and concrete masonry design, Design of retaining walls, Design of substructures and foundations, Use of computers in structural design.

SVB001 Surveying and Mapping

Aim:
To give an understanding of survey maps and simple surveying techniques through lectures and field work.

Synopsis:
Instrumentation for land measurement, contour mapping; types of map, availability and interpretation; simple survey techniques; introduction to remote sensing techniques.

SVB101 Surveying and Measuring

Aim:
To introduce students to the elementary concepts, instrumentation and applications of survey systems.

Synopsis:
The study program is aimed at problems likely to be encountered by the builder and covers the following aspects:

1. Basic concepts and applications of Surveying and relationship with Architecture and Building.
2. Instrumentation -
   (a) Level - construction, adjustment, uses and precuations. Booking procedures.
   (b) Steel tape - field precautions, corrections and accuracy.
   (c) Theodolite - basic construction, elementary precautions and uses, traversing.
   (d) Compass traversing.
3. Applications of instruments -
   (a) Running a flight of levels.
   (b) Cross sectioning.
   (c) Contours - their properties, production and uses.
   (d) Detail surveying of sites.
   (e) Setting out procedures as applied to large building projects.
   (f) Tachometry.
4. Office applications -
   (a) Plotting of survey data.
   (b) Computations of volumes - balance volumes from spot heights.
5. Legal aspects - cadastral system and land tenure system. Titles Office procedures, searching, identification, types of surveys, easements, encroachments, interpretation of survey plans.

CMA135 Technical Communications (a)
CMA235 Technical Communications (b)

Aim:
To make students aware of effective means of oral and written communication.

Synopsis:
Techniques of effective written communication, rules of grammar and language, report writing; business correspondence. Techniques of effective spoken communication, debate, procedure and chairmanship of meetings.

Aim:
To extend and develop skills acquired in Presentation Techniques (Year 2).

Synopsis:
Effective writing, layout and composition techniques for written reports. Communication processes, materials and techniques including report reproduction, audio and visual techniques. Basic costing. Spoken communication.

LPP042 Technical Drawing

Aim:

To introduce basic concepts and develop applied understanding of the basic standard drawing conventions.

To develop skills and competencies in drafting and technical drawing.

Synopsis:

Studio applications in orthographic projection drawings - plan, section and elevation; axonometric drawings (paraline) including oblique and isometric; orthographic perspective - plan, section and elevation perspectives; one and two point perspective, construction; layout and compositional issues, shade and shadow; script and lettering; international drafting conventions; use of pens, scales, rules and other equipment; dimensioning and measurement; introduction to implementation drawing formats; line weights and designations.

Material will be covered in lecture and tutorials. Evaluation and assessment will be based on evidence of technical skills and understanding through studio exercises as well as applications in Design.

ARB195 Technology 1
ARB196 Technology 2

Aim:

To provide students with an understanding of 'how things work'.

Synopsis:

A study of the laws of science as they affect the systems which surround us. A study of particular small-scale systems to establish which principles are the essence of its operation. The study may range from systems of uniplanar forces through hydraulics, optical or acoustical qualities to electronics depending on the systems selected. Exercises in making models of the studies being attempted in Design Studies I.

An analysis of the interaction of forces, function, materials and form in such apparently simple structures as the outrigger canoe, the hang-glider.

An introduction to computer applications in architectural science.

ARB295 Technology 3
ARB296 Technology 4

Structural Mechanics I and II

Aim:

To give students an understanding of the mathematical reasoning in structural design and its application to the design of structural members.

Synopsis:

Forces and reactions, bending moments and shear force diagrams, stress strain and deflection, loads on buildings and structural requirements, radius of gyration, moments of inertia, section modulus. Design of steel and timber members. Connections.

Materials Method & Structure I

Aim:

A study of the physical forces influencing the form of natural and fabricated structures together with a study of the characteristics of materials, leading to the consideration of a range of objects and structures across a wide spectrum from post and beam to tension and diaphragm structures; study of the methods of using and joining materials to transmit and resist the forces acting. Computer applications in architectural science.

Synopsis:

The course will run parallel with the Design Studies course and in many instances the two programs will be integrated. Initially the program will be devoted mainly to

a study of materials and fundamentals of structure on a week-by-week topic-by-topic basis. The emphasis in the later part of the semester will be on the actual making of models and structures. Basic building types (such as 'the emergency shelter') will be constructed in conjunction with the Design Studies program.

Materials Method & Structure 2

Aim:
To provide an intense course in building materials, methods and structures.

Synopsis:
Lectures and studio sessions on the materials and methods used for load-bearing construction, frame construction in various materials. Steel construction, concrete frame construction, an introduction to industrialised and modular systems, the cladding and roofing of framed buildings. Computer applications to methods and structures.

ARB395 Technology 5
ARB396 Technology 6

Structural Mechanics 3 and 4

Design of concrete beams, bending, shear, bond, one-way slabs. Design of concrete columns, footings, pile caps two-way and flat slabs. Brickwork and concrete masonry design. Composite beams. Column and slabs by ultimate strength theory.

Analyse statically indeterminate building frames using moment distribution. Qualitative continuity and deflected shapes. General building stability. Building frames.

Construction 1 and 2

Aim:
To provide an intense course in the more complex aspects of construction, particularly in relation to the theory of structures.

Synopsis:
Footings, retaining walls, roof truss design, building frames, floor systems, roof systems, laminated timber, structural plywood, precast and prestressed concrete, building failures, calculated brick and masonry construction, corrosion protection and fireproofing, underpinning and shoring.

Basic Engineering Services 1 and 2

Aim:
To generate an awareness, through an understanding of hydraulic and engineering services, that such services can affect the final design solution. To give students necessary design criteria for these services.

Synopsis:
Hydraulic engineering services associated with buildings: water supply, sewerage and sanitary plumbing. Study of relevant acts and laws. Principles of hydraulic design. A general review of problems concerned with installation of such services. Engineering services associated with buildings including vertical communication, electrical power and illumination, air conditioning and ventilation, acoustics and noise transmission.

Environmental Science 1 and 2

Aim:
The aim of this series is to allow the students to appreciate design factors determined by the site in order that architectural designs may better realise site design potential.

Synopsis:
Site survey and analysis: the collection, presentation, and analysis of site data in

relation to a proposed scheme - topography, soils, geology, drainage, vegetation, patterns, climate, man-made elements, visual and landscape character. The effects of site disturbance, including the addition of structures on the site: effects on climate, soils, drainage, vegetation and character.

BTB101 The Human Environment 1

Aim:
To provide a basic understanding of the dimensions and movement of the human body, and of its perceptual systems, as an essential preliminary to the design of all artefacts for human use.

Synopsis:
The course will consist of lectures and studio exercises. Lecture topics will include: static and dynamic anthropometry; human sensory systems; introduction to ergonomics; applications of anthropometrics and ergonomics to design. Studio exercises will require the application of the theory covered in lectures to a variety of practical situations.

BTB201 The Human Environment 2

Aim:
This subject encourages the understanding of human behaviour by:
1. examination of relevant theories and processes, and
2. skill acquisition and practical application to daily life.

Synopsis:
Basic research principles, perception, learning processes, motivation and problem-solving. Communication, characteristics and dynamics of group and interpersonal interactions. Stress and anxiety management. The role of the self-concept and locus of control in transactions with the world in general.

BTB301 The Human Environment 3

Aim:
To understand the role of social, cultural, and historical variables in human - environment interactions.

Synopsis:
The social and cultural development of Australian urban environments, with particular reference to the local built environment. The study of human functioning in urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban envirommment with respect to its sociocultural function.

BTB401 The Human Environment 4

Aim:
To study the interaction of formal organisations and institutions especially the organisation of work and government and the built environment.

Synopsis:
Organisation of society; bureaucracy; other approaches to organisations and their structure; directing society; the roles of government and private enterprise; theories of power in society; Federal governments; the Australian example; three tiers of government; Australian constitution; Parliamentary democracy and procedures in State and Federal governments; Queensland State administration; role of local government, especially in Queensland; Quangos and Statutory Authorities; pressure groups and lobby groups and their influence in the Built Environment arena; examples of interactions between government and built environment professions.

LPP314 The Political Context

Semester 1 (Part-time)
Semester 1 (Full-time)

Aims:
To introduce a number of political thinkers and political ideas which are of importance to urban and regional planners, and so to provide a political context for urban and regional planning theory and practice.

Synopsis:
An introduction to the relationships between politics and urban and regional planning. The perennial problems: human nature and society; order, disorder and conflict. Contributions of major historical political thinkers: the Classical tradition (Socrates, Plato, Aristotle), the Social Contract theorists (e.g. Rousseau, Hobbes, Locke), social structure (Hegel, Marx). An introduction to political concepts of importance to urban and regional planners: authority, legitimacy, power, ideology, representation, the public interest, minorities, pressure groups. The linking of politics and urban and regional planning in discussion of change, freedom and utopia, and the politics of community. An introduction to the Australian political system and the place of urban and regional planning within it.

BTN202 The Urban Environment and Behaviour 1
BTN203 The Urban Environment and Behaviour 2

Aim:
To consider the city as a product and an influence on human behaviour.

Synopsis:
This subject will be studied over two semesters and will offer an organising framework for the investigation of interactions between people and the urban environment. Specific topics will include user groups and their spatial and temporal distribution, the impact of changing lifestyles, life cycles in the city, groups at risk, cultural norms and attitudes to the city, interpersonal and group behaviour in urban settings, individual behavioural responses, cognitive and evaluative responses, and psychophysical responses. Methods of observation and recording will be discussed in relation to each topic.

BTN302 The Urban Landscape

Aims:
To encourage recognition of the broader elements of the landscape and an awareness of their contributions towards better urban environments.
To promote understanding of the city as experience of organised spaces.
To ensure knowledge of the needs of natural living elements within urban areas.

Synopsis:
The city as a landscape unit, notable examples of city/site relationships; contribution of natural factors and patterns (topography, soils, drainage, vegetation, climate) towards better delineation of urban form and character.
Spaces and their organisation, the city as spatial entity, sequential experience; spaces for specific purposes; the choerography of spaces -use, settings, and furnishings (enclosure, floors, overhead structures, services, features, finishes).
Natural elements and their nurture within urban areas - vegetation species, groupings, and their requirements (streets, plazas, forecourts, roofs, parks, urban forests, natural areas); water bodies and their conservation as healthy feature; urban wildlife - habitats and contribution to the urban experience; landscape conservation techniques in urban areas.

BTN305 Tourism and Recreation in Urban Design

Aims:
To consider tourism and recreation as factors in urban design development, their

effects on urban design and appropriate planning procedures. This concentration course provides students with the opportunity to focus on a specialised area of study of particular relevance in Queensland.

Synopsis:
Tourism and recreation as generators of development: benefits and impacts; analysis of demand, trends, potential. Types of tourism and recreation, urban tourism; basic facilities of tourism and recreation. Specific facilities of resorts. Planning procedures - strategy, controls, performance standards and infrastructure requirements. Multi cultural aspects and host culture implications.

BTN303 Transport and Movement Systems in Urban Design

Aim:
To provide basic information on the range of forms of urban transport and the major implications of each for urban design.

Synopsis:
Origins and destinations of traffic movements. The road hierarchy and its characteristics. Features of major terminals, car parks, pedestrian and cycle networks.
Modes of travel and transport systems, bus, railway and light rail, water, evaluation of comparative systems. Major traffic generators: airports, terminals, CBD circulation.
Related environmental and design issues: noise, atmospheric pollution, physical and visual impacts of different systems and traffic channels.
Future trends in transport and movement systems and related issues.

LPP352 Transport Planning

Semester 5 (Part-time)
Semester 6 (Full-time)

Aims:
To introduce students to alternative modes of transport; to methods for predicting future urban transport patterns; and to techniques of transport planning and management.

Synopsis:
Movement and its alternative modes - foot, cycle, car, bus, train, plane, pipeline, inland waterway and marine modes. The origin and destination approach to traffic management; interchange studies. Inter-urban traffic and regional transport planning. The relationship between land use and traffic generation.

BTN304 Urban Climate and Services

Aims:
To develop a scientific approach to and encourage the use of scientific techniques in designing for climate control at the urban scale. To promote understanding of the types of urban services and relevant authorities and regulations.

Synopsis:
(a) Urban Climate - the science of urban climate and design for micro-climatic comfort: effects on climatic factors of solar radiation, air movement, temperature, precipitation, glare, daylight control, etc. of such elements as urban planning layouts, building orientation and design, streetscape, open space, materials and finishes, etc.
(b) Urban Services - functional services of power, telephone, gas, water, stormwater and sewerage reticulation: controlling authorities, planning requirements and controls relevant to urban design. Community services related to health, safety, and welfare (such as medical, fire, emergency services, libraries, police, community participatory groups): controlling authorities, extent of services provided and controls relevant to urban design.

LPP325 Urban Design

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To provide a broad introduction to design concepts and principles and to techniques of urban spatial analysis; and to explain the process of design.

Synopsis:
Design method. Visual thinking. Principles of perception and spatial arrangement. The vocabulary of design and urban imagery. Design elements. The evolution of design theory. Techniques for analysing the quality of existing built environments. Analysis of examples.

BTN101 Urban Design Analysis Studio

Aim:
To develop skills in the analysis of urban design problems and in communication of such analyses.

Synopsis:
The emphasis within this subject is on the development of skills in analysis related to the urban design process and adequate communication of the results.
Each student will be required to undertake two studies, one chosen from each of two groups typically: city interpretation or townscape appraisal, and housing morphology or pedestrian environments. Where applicable, work in other units of study will be incorporated into this subject. Field work will be incorporated as necessary.

BTN401 Urban Design Computer Applications

Aim:
To build on students' prior knowledge of personal and mainframe computers in areas of direct relevance to urban design, particularly computer-aided design.

Synopsis:
Introduction to the computers available at QIT.
The use of computers to analyze and solve urban design problems and communicate solutions.
- Feasibility studies
- Land use studies
- Generation of envelope and space layouts
- Environment and service systems analysis
- Development control testing
- Data handling and manipulation
- Computer graphics
- Interactive integrated design systems

BTN103 Urban Design Conjecture Studio

Aim:
To develop design skills in generating a hypothetical solution for an urban design.

Synopsis:
Identification and classification of approaches to urban design. The setting of objectives, the adoption of a method and the testing of implications for a particular urban design problem type.
Each student will be required to undertake one study chosen typically from: local area, precinct, part of the city, the city as a whole. Where applicable, work in other units of study will be incorporated into this subject.

BTN102 Urban Design Context Studio

Aim:
To develop design skills required for relating new development to existing urban contexts.

Synopsis:
Each student will be required to undertake two studies, one from each of two groups typically: a community participation project or a sense of place project and a conservation and infill project for the redevelopment/rehabilitation of either an urban precinct or a residential area. Where applicable, work in other units of study will be related to this subject.

BTN105 Urban Design Field Studies Studio

Aim:
To provide students with direct experience of a range of recent and current urban design problems in Australia.

Synopsis:
The work in this subject will consist of a field trip of approximately two weeks duration. Visits will be paid to successful and unsuccessful examples of urban design and to design offices in the eastern states and the Australia Capital Territory.
Students will be required to analyse existing and proposed examples in the context of their original design criteria including cultural, social political, economic and physical to understand the applicable design rules. Examples will then be reviewed through site visits, discussion and seminars with designers and users.

BTN104 Urban Design Guidelines Studio

Aim:
To develop skills in the development and testing of urban design guidelines.

Synopsis:
Each student will be required to develop design guidelines for an urban complex, typically one of the following: a regional centre, a tourist development or a housing development and then to test a design guideline produced by a fellow student for a project other than the one used for his/her own design. Where applicable, work in other units of study will be related to this subject.

BTN403 Urban Design Guides and Development Control

Aim:
To explore the range of purposes, techniques, and applications of development control and design guidance in urban design by reference to Australian and other examples.

Synopsis:
Change and continuity as factors in urban environments. The contrasting needs for innovation and heritage, coherence and diversity, natural features and vigorous built form.
Techniques of control: the use of regulations, ratios, and performance standards. Positive planning and the use of incentives for good design: bonuses, transferable rights, advance publication of permissable development, rapid decisions, early dissemination of information. The preparation of Design Guides and Development Briefs.
Strategic choice in the management of change: the roles of public and private sectors in the development process. Case studies of design guidance: Adelaide, Perth, Melbourne, Canberra, Sydney, Victorian country towns, Spring Hill in Brisbane, British design guide housing, design guidance in San Francisco.

BTN204 Urban Design Theory and Criticism

Aim:
To examine a range of theoretical and critical writing about urbanism and urban design, with particular attention to the twentieth century.

Synopsis:
This subject will be studied over two semesters and will investigate the characteristics of 'good theory' in the field of urban design in relation to the work of a number of theoretical writers and schools. Specific topics will include theoretical writing on urban design before 1800, theory and practice in the nineteenth century, the 'Kunstlerichsen Grundsatzen' of Camillo Sitte, the Garden City movement, Le Corbusier and Modernism, the Townscape movement, Jacobs and 'The Death and Life of Great American Cities', Alexander on the urban system, the intelligible city, the work of Lynch and Appleyard, Rapoport on urban meaning, Habraken, Rowe and the city as independent artefact, Canter, Relph and Tuan on the phenomenology of the city, Maitland's analysis or urban design concepts.

LPP341 Urban Governance

Semester 4 (Part-time)
Semester 4 (Full-time)

Aims:
To explore the formal and informal processes by which Australian urban centres are governed and managed and to compare these with processes in other countries.

Synopsis:
The meaning of urban governance (including formal and informal processes). The statutory relationships amongst Australian Federal, State and Local Authorities and the effective relationships amongst them in relation to physical, social, decision-making and financial resources. The structure of Local Authority, State and Federal Government departments. Semi-government and non-government authorities. The relationships between politicians and administrators. Organizational and inter-organizational theory, including the theory of bureaucracy, organizational structure, organizational change and learning. Co-ordination and conflict within and between organizations (including Local Authorities). Recent attempts to improve urban governance: corporate planning, management by objectives. Case studies.

LPP323 Urban Land Development

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To introduce students to the process of urban land development and to the roles of public and private agencies in this process.

Synopsis:
Structural and engineering design requirements in urban development - local physical services, roads and drainage, sewers, water, gas, electricity and telecom services. Design and control systems, design standards, the effects of standardised requirements and alternative approaches. The roles of statutory authorities, -gas, electricity, water, telephone, public transport, railways, waterways, road construction authorities. Development teams - the roles of associated disciplines - civil, municipal and transport engineers, earth and environmental scientists, and others. The role of the private developer.

LPP124 Urban Landscape Design

Aims:
To consolidate understanding of site planning and design processes.
To encourage competence in the application of construction techniques, issues and approaches.
To engender understanding of the existing character of the cultural and natural landscape.
To consolidate and integrate knowledge and skills in related support subjects.
To develop further the understanding of design through the use of formal criticism techniques.

Synopsis:
Complex landscape design problems and applications at medium to small scales, including redesigns and rehabilitations.
Briefs - programming techniques, user/function analysis, client analysis, data gathering and information requirements, role of pre-analysis phase of work, work plan for site planning and landscape design services, post-construction evaluation. Sketch design and details; applications of construction and materials within design. The emphasis throughout will be on professional presentation standards. Studios will follow a program combining lectures and seminars in relevant theory, methods and techniques. Staff from related support subjects may be involved in projects and their assessment.
Evaluation and assessment will be based on project work and the submission of a design critique.

LPP322 Urban Structure

Semester 2 (Part-time)
Semester 2 (Full-time)

Aims:
To describe alternative modes and themes of urban form, structure and process and to examine critically the usefulness of such models and themes in explaining the structure of modern urban areas.

Synopsis:
Central Place Theory; the hierarchy of urban functions, and transport. Theories of city growth process - the Chicago School; invasion and succession, sectoral growth; multiple nuclei, urban inter-action; segregation of land uses; vitality versus order. Social and economic determinants of urban structure. Models of planned urban forms. The relationships between town and country.

BTB548 Utility Services

Aim:
To study environmental services and utilities and their resultant effects at the broad scale.
To examine the necessary design criteria for these services and to explore contemporary techniques, future trends, and alternative systems.

Synopsis:
(i) Energy Sources and Aspects - impacts of electricity and gas systems on the natural environment, location considerations, and environmental considerations; alternative energy implication for the built environment and impacts on the natural environment.
(ii) Transportation Systems and Aspects - types of planning, land requirements, built and natural environmental impact considerations, and related aspects of road, rail, air, water, pedestrian, and cycle transportation systems.
(iii) Domestic and Industrialisation Services - need, characteristics, environmental impacts, regulations, and design criteria of water supply, waste water treatment, waste disposal, and stormwater drainage services.

BGB442 Valuations and Dilapidations

Valuations:
Aim:
To make students aware of the factors affecting the value of land and building developments.

Synopsis:
The nature of value. Effect of supply and demand on value. Principle factors affecting the supply of and demand for land and buildings. Investment value and occupational value. The principal types of landed property, the incidents of their tenure, the outgoings to which they are subject, and comparison with other forms of investment.
General principles governing the varying rates of interest required from different types and classes of property. Nature of rent. Methods of calculating rental value and net income. Principles involved in capitalization of net income. The nature and use of valuation tables and the general principles of their construction with examples of their use.

Dilapidations:
Aim:
To provide the student with legal and practical knowledge in a subject pertaining to the building industry.

Synopsis:
The meaning of dilapidations, liability for dilapidations. The meaning of waste; legal and equitable waste; liability for waste. Implied and statutory obligations to repair between landlord and tenant; obligation under express contract interpretation of covenants to repair; meaning of fair wear and tear. The effect of assignment of term or reversion upon liability to repair. Liability of executors. Landlords' remedies for breach of covenant to repair, notices to repair, interim schedules; schedules at end of leases; measure of damages. Liability for work required and charges made by local authorities. Dangerous structures. Party walls. Fences. Liability for injuries to third parties, liabilities of owner and occupier to persons coming on to the premises, to persons using the highway and to adjoining owners.

Statutory provision and cases of importance relating to dilapidations, waste and repair in respect of urban properties.

BTB306 Visual Communication 1

Aim:
To consolidate abilities acquired in the first year of study and to explore the role of graphics as:

(a) An analytical medium, and
(b) A means of translating design ideas into production documents.

Synopsis:
A practice-based program will be followed with specialised, formal lecture inputs related to the development of methodologies. The program will concentrate on the achievement of a professional standard in basic techniques of production documentation whilst allowing further individual development in the more 'legitimate' aspects of artistic expression.

BTB406 Visual Communication 2

Aim:
To concentrate on graphic applications in the specific professional areas represented by the School and to allow exploration of areas of particular individual interest and ability.

Synopsis:
Emphasis will be placed on development and application of skills and techniques previously covered and computer graphic techniques relevant to professional applications.

BTB506 Visual Communication 3

Aim:
To concentrate on processes and techniques employed in the production of three dimensional aids to design and presentation.

Synopsis:
The course will consist of a series of studio exercises in the production of rough mock-ups as an aid to the design process; scale modelmaking and choice of materials.

ARB615 Visual Communication 4

Aim:
To develop visual communication abilities by using different kinds of media and techniques.

Synopsis:
This subject covers different rendering and presentation techniques, material representations, use of audiovisual media, model making, and portfolio organisation.

LPP114 Work Experience Program

Aim:
To provide in-situ experience under direction as preparation for detailed practice studies.

Synopsis:
A minimum period of 8 weeks work experience in approved situations in landscape architectural offices and/or industry. Placements will be negotiated by the Department with work supervisors.
Students will be evaluated by supervisors and assessed through completion of logged experience.

ARA128 Workshop and Modelmaking (a)
LPA228 Workshop and Modelmaking (b)

Aim:
1. To introduce the students to workshop procedures involving building materials.
2. To introduce the students to modelmaking.

Synopsis:
General instruction on the use of workshop tools and in workshop procedures. Familiarisation of working charcteristics of various materials. Making of simple building and landscape models.

CMB116 Writing for Designers 1

Aim:
To develop students' ability to research, plan, write and present tertiary-standard written communications.

Synopsis:
The writing process; style, accuracy and simplicity in writing; the editing process.

CMB117 Writing for Designers 2

Aim:
To enhance students' writing competence for the special written materials commonly used in the design professions.

Synopsis:
Writing for the design professional; review of organisation and mechanics; types, formats, styles and review of professional documents; problems of technical style, bibliographic conventions and use of graphics.

CMB114 Written Communication

Aim:
This subject is designed to enhance the student's grasp of the principles and skills of written communication by encouraging:

(a) An improved ability to use written communication logically and clearly;
(b) A level of competence in writing in special forms;
(c) An awareness of the nature of literature both creative and utilitarian.

Synopsis:
The elements of the subject are the writing process (planning and outlining: topic and development; logic and evidence; transition and parallelism; diction and tone), the editing process (conciseness; avoidance cliches, faulty parallelism, faulty pronoun reference and comma splice), forms of writing (research essay, reports, memoranda and correspondence), and the literary process (study and analysis of selected fiction and non-fiction).