Faculty of Information Technology

Computing Science
Information Systems

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Faculty of Information Technology

Dean of Faculty

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The technological and economic developments of the last decade have produced a major irreversible shift in the career patterns of Australian graduates. The demand for professional workers in the information processing and information services sector will continue to exceed the supply in the forseeable future. The role of this Faculty is to provide an educational environment which will enable students to prepare themselves for careers in fields which range from senior management to high technology.

Computers are now commonly employed in education, commerce, scientific research, medicine, tourism, finance, government, manufacturing, primary industries and in the home. Information Technology will increasingly integrate the computing systems within and between large organisations. New computer architecture will provide users with tremendously powerful information processing facilities and the next generation of software will massively reduce the effort of exploiting this power. The computing professional will be required to develop and operate these systems and will be at the hub of the information powerhouse.

The Faculty is organised into two Schools, Computing Science and Information Systems. The Faculty is thus concerned with all aspects of Information Technology ranging from the study of computing and communications devices to the provision of information services.

The Faculty also operates the Information Security Resource Centre which aims to provide a consultancy, training, research and development service to industry, government and commerce in the areas of data and computer security.

The emphasis in the Faculty's activities is to develop the personal and professional attributes of its students so as to enable them to play a significant role upon taking up first employment and to keep abreast of developments in a rapidly developing field.

Undergraduate Courses

The Faculty offers three Bachelor degree courses, the Bachelor of Business (Computing), the Bachelor of Business (Information Management) and the Bachelor of Applied Science (Computing). These courses are aligned to educate computer professionals planning to undertake employment in commerce and industry but each has its particular orientation. The Bachelor of Business (Computing) and Bachelor of Applied Science (Computing) degrees have the same entry requirements and a common first year so that students can defer their choice between the two career paths until they have gained a greater insight into the nature of the two degree courses. There is no Mathematics pre-requisite requirement for the Bachelor of Business (Information Management) course. All courses incorporate an optional one year period of industrial training between the second and final academic years of the full-time course.

In addition, the Faculty also offers two double degree courses. The Bachelor of Business (Computing)/Bachelor of Laws degree, a five year full-time course operated in conjunction with the Faculty of Law, is a unique course which will provide its graduates with the ability to practise law in the light of the complex environments generated by developments in information technology. The Faculty also offers the Bachelor of Engineering/Bachelor of Applied Science (Electronic Systems and Computing) in conjunction with the School of Engineering. This course is oriented to the design of computer systems from both a hardware and software view point and has attracted students of a very high calibre.

Postgraduate Courses

Two Master degree courses and three postgraduate diplomas are offered by the Faculty, i.e. Master of Applied Science (Computing), Master of Applied Science (by Research and Thesis), Graduate Diploma in Commercial Computing, Graduate Diploma in Computing Science and Graduate Diploma in Library Science.

The Master of Applied Science (Computing) is a two year full-time or four year part-time course designed for graduates with a substantial background in computing who wish to gain postgraduate expertise in the latest developments within the computing field for career development or re-orientation.

Entry to the Master of Applied Science (by Research and Thesis) requires a first degree in a suitable discipline, and is normally entered after the applicant has accumulated work experience subsequent to the achieving of the first degree.

The Commercial Computing course is available to graduates in disciplines other than computing and, in particular, is intended for those in business professions who wish to add computing to their professional skills. The course is available for both part-time and full-time study.

The Graduate Diploma in Computing Science is available to graduates in disciplines other than computing, and is particularly intended for those in the engineering and scientific professions. The course is available for part-time study with all lectures available in the evenings. A full-time program may be undertaken during the day.

The Graduate Diploma in Library Science is offered to holders of a degree other than Librarianship, who wish to become librarians undertaking either specialist or generalist work in a wide range of public or private organisations. The course focuses on multi-media resources, print materials, on-line database searching, traditional print-based reference work, the evaluation of software packages suitable for use in library administration, and the study of traditional management tools and techniques. The course involves one year of full-time study or two years of part-time study.

School of Information Systems

This School has major areas of interest covering a wide range of applications, from commercial-oriented computer based information systems to the management of information to librarianship/information services.

Computer based information systems have a strong bias to the commercial and administrative application of computing, an area which provides the prime source of employment for computing graduates. The information management area is concerned with the establishment and operation of organisational information systems which co-ordinate both external and internal information. The library/information services area is particularly concerned with the impact of technological change on traditional information services.

The School is responsible for the conduct of the Bachelor of Business (Computing), the Bachelor of Business (Information Management), the Graduate Diploma in Commercial Computing, the Graduate Diploma in Library Science, and of the computing component of the double degree Bachelor of Business (Computing)/Bachelor of Laws. It also teaches data processing subjects within the Business Computing strand of the Accountancy degree and service subjects for other Faculty courses.

School of Computing Science

The School's special interests are in systems programming, language processing and computer communications. The School has a particular involvement in the promotion of the use of structured languages for systems programming tasks.

The School is responsible for conducting the Master of Applied Science (Computing), the Bachelor of Applied Science (Computing), the Graduate Diploma in Computing Science, the computing component of the Bachelor of Engineering/Bachelor of Applied Science (Electronic Systems and Computing) joint degree course, and has a number of students enrolled in the Master of Applied Science (by Research and Thesis) program.

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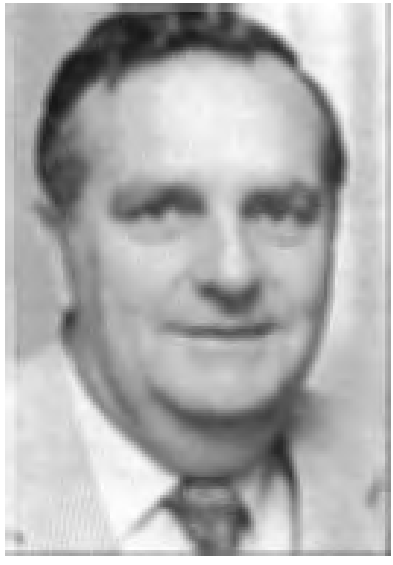

Message from the Registrar on the establishment of Queensland University of Technology

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

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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

1. Authority of Chief Librarian
2. Library Usage
   - (a) Entitled Users etc.
   - (b) Hours of Opening
   - (c) Rules for General Conduct
   - (d) Borrowing Responsibilities
   - (e) Loans
   - (f) Limited Access Collection
   - (g) Non-Loanable Materials
3. Penalties etc.
   - (a) General
   - (b) Reprimand
   - (c) Fines for Late Returns
   - (d) Loss of Borrowing Rights
   - (e) Lost Library Material
   - (f) Exclusion
4. Appeals
5. Library Copying and Copyright
6. Notices
7. Schedule of Service Charges

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 OUT
	Non-OUT	*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 pre-requisite 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 pre-requisites 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 Standing Committees

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ACADEMIC BOARD

INFORMATION TECHNOLOGY ACADEMIC BOARD

Chairman:	Dr D Longley
Internal Members:	School of Computing Science
	Mr P Cattell
	Ms R Christie
	Dr K J Gough
	Mr M Roggenkamp
	School of Information Systems
	Ms A Anderson
	Dr J Owen
	Mr A Tickle
	Mr A Underwood
	Dr J White
Student Representatives:	Mr G Court
	Mr R Nelson
Ex-Officio:	Deputy Director
	Dean, Faculty of Science
	Dean, Faculty of the Built Environment
	Dean, Faculty of Business
	Dean, Faculty of Engineering
	Dean, Faculty of Health Science
	Dean, Faculty of Law
	Chairman, Graduate Studies Standing Committee
Library Representative:	Ms P Meixsell-Draper (observer status)
Department of Computing Services Representative:	Mr W Fisher (observer status)

COURSE ASSESSMENT COMMITTEES

MASTER OF APPLIED SCIENCE (COMPUTING)

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Dr K J Gough	Acting Head, School of Computing Science
Dr W J Caelli	Director, Information Security Research Centre
Prof G Rose	Department of Computer Science, University of Queensland
Mr B Parker	Deputy Director, Centre for Information Technology and Communications
Mr K M Dwyer	Queensland Manager, IBM Australia

GRADUATE DIPLOMA IN COMMERCIAL COMPUTING

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Mr A Underwood	Acting Head, School of Information Systems
Dr W J Caelli	Director, Information Security Research Centre
Prof A H J Sale	Professor of Information Science, University of Tasmania
Mr P Juliff	Head, Department of Computing, Victoria College
Mr B Parker	Deputy Director, Centre for Information Technology and Communications
Mr J Puttick	Managing Director, Star Systems
Mr D Luttrell	Chief Manager, Information Systems, SUNCORP
Prof J Seberry	Head, Computer Science Department, University College, University of NSW, Australian Defence Force Academy

In Attendance:	Mr A Tickle, Senior Lecturer, School of Information Systems, in capacity as Course Co-ordinator

GRADUATE DIPLOMA IN COMPUTING SCIENCE

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Dr K J Gough	Acting Head, School of Computing Science, QUT
Mr P Juliff	Head, Department of Computing, Victoria College
Dr W J Caelli	Director, Information Security Research Centre
Prof A H J Sale	Professor of Information Science, University of Tasmania
Mr B Parker	Deputy Director, Centre for Information Technology and Communications
Mr D Luttrell	Chief Manager, Information Systems, SUNCORP
Mr J Puttick	Managing Director, Star Systems
Prof J Seberry	Head, Computer Science Department, University College, University of NSW, Australian Defence Force Academy
In Attendance:	Mr P Cattell, Senior Lecturer, School of Computing Science, in capacity as Course Co-ordinator

GRADUATE DIPLOMA IN LIBRARY SCIENCE

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Mr A Underwood	Acting Head, School of Information Systems
Dr J Owen	Principal Lecturer, School of Information Systems
Prof J D Chick	Director, School of External Studies and Continuing Education, University of Queensland

Dr N D Lane	Head, Centre for Library and Information Studies, Canberra CAE
Mr D Stephens	Deputy State Librarian, User Services, State Library of Queensland
Mr R S Walsh	Law Librarian, Morris, Fletcher and Cross
Ms A Clarkson	Librarian/Information Management Consultant, LASMO Energy Aust Ltd

BACHELOR OF BUSINESS (COMPUTING)

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Mr A Underwood	Acting Head, School of Information Systems
Dr W Caelli	Director, Information Security Research Centre
Prof A H J Sale	Professor of Information Science, University of Tasmania
Mr P Juliff	Head, Department of Computing, Victoria College
Mr D Luttrell	Chief Manager, Information Systems, SUNCORP
Mr B Parker	Deputy Director, Centre for Information Technology and Communications
Mr J Puttick	Managing Director, Star Systems
J Seberry	Head, Computer Science Department, University College, University of NSW, Australian Defence Force Academy
In Attendance:	Ms A Anderson, Senior Lecturer, School of Information Systems, in capacity as Course Co-ordinator

BACHELOR OF BUSINESS (INFORMATION MANAGEMENT)

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Mr A Underwood	Acting Head, School of Information Systems
Dr N Lane	Head, Centre for Library and Information Studies, Canberra CAE
Mr A M Ward	General Manager, Group Services (also Corporate Secretary) Metway Bank Ltd
Mr J Heim	Computer Consultant, Wadestone Pty Ltd
Mr R Walsh	Law Librarian, Morris Fletcher and Cross, Brisbane
Mr N Macpherson	Deputy Town Clerk, Brisbane City Council
In Attendance:	Mr B Carroll, Senior Lecturer, School of Information Systems, in capacity as Course Co-ordinator

BACHELOR OF APPLIED SCIENCE (COMPUTING)

Dr D Longley	Dean, Faculty of Information Technology (Chairman)
Dr K J Gough	Acting Head, School of Computing Science
Dr W J Caelli	Director, Information Security Research Centre
Prof A H J Sale	Professor of Information Science, University of Tasmania
Mr P Juliff	Head, Department of Computing, Victoria College
Mr D Luttrell	Chief Manager, Information Systems, SUNCORP
Mr B Parker	Deputy Director, Centre for Information Technology and Communications
Mr J Puttick	Managing Director, Star Systems

Prof J Seberry	Head, Computer Science Department, University College, University of NSW, Australian Defence Force Academy
In Attendance:	Dr G Mohay, Senior Lecturer, School of Computing Science, in capacity as Course Co-ordinator

BACHELOR OF ENGINEERING/BACHELOR OF APPLIED SCIENCE (ELECTRONIC SYSTEMS AND COMPUTING)

A joint meeting of the Course Assessment Committees for the Bachelor of Engineering (Electrical) (refer Faculty of Engineering Handbook) and the Bachelor of Applied Science (Computing) (see previous page).

BACHELOR OF BUSINESS (COMPUTING)/ BACHELOR OF LAWS

A joint meeting of the Course Assessment Committees for the Bachelor of Business (Computing) (see this section) and the Bachelor of Laws (refer Faculty of Law Handbook).

BACHELOR OF ENGINEERING/BACHELOR OF APPLIED SCIENCE (ELECTRONIC SYSTEMS AND COMPUTING) JOINT DEGREE EXECUTIVE

Dr J Corderoy	Dean, Faculty of Engineering
Dr D Longley (Rotating Chairmanship)	Dean, Faculty of Information Technology
Dr K J Gough	Acting Head, School of Computing Science, Faculty of Information Technology
Mr J Edwards	Lecturer, School of Electrical and Electronic Systems Engineering, Faculty of Engineering (Administrator for Joint Degree)
Dr M Moody	Head, School of Electrical and Electronic Systems Engineering, Faculty of Engineering
Dr J Hynd	Lecturer, School of Computing Science

GRADUATE STUDIES STANDING COMMITTEE

Dr D E Allen (Chairman)	Senior Lecturer, Department of Medical Laboratory Science.
Dr V V Anh	Lecturer, Department of Mathematics.
Mr K J Bowman	Head, Department of Optometry.
Dr M F Capra	Senior Lecturer, Department of Public Health & Nutrition.
Dr M R Chambers	Senior Lecturer, Department of Chemistry.
Dr R L Frost	Senior Lecturer, Department of Chemistry.
Dr K J Gough	Acting Head, School of Computing Science.
Dr B P Lim	Head, School of Architecture & Industrial Design.
Dr J S Welch	Head, Department of Medical Laboratory Science.
Mr J Wilson	Lecturer, Department of Biology.
Dr C F Wong	Lecturer, Department of Physics.
Dr G H Yezdani	Lecturer, Department of Biology.

External Membership:

Prof G Dromey	Head, School of Computing & Information Technology, Griffith University.
Dr A F Egan	Principal Research Scientist, Microbiology, CSIRO Division of Food Research.
Dr J Pope	Director, Sir Albert Sakzevski Virus Research Laboratory, Royal Children's Hospital.
Prof Y H Thong	Professor of Child Health, Mater Children's Hospital.
Mr D C Williams	General Manager, Research, MIM Holdings.

Ex-Officio:

Dr R B Gardiner	Dean, Faculty of Science.
Mr T F Heath	Dean, Faculty of the Built Environment.
Dr D Longley	Dean, Faculty of Information Technology.
Dr A J Webber	Dean, Faculty of Health Science.

Staff

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STAFF - FACULTY OF INFORMATION TECHNOLOGY

Dean of Faculty:	D Longley, BSc(Physics)(Hons)(Manch), MSc(Tech)(UMIST),PhD(Leic), CEng, FIEE, FAIM
Faculty Administration Officer:	P D Moller, BSocWk(Qld)
Secretary:	M Sands
Administrative Assistants:	A Gibbons (Temporary Vacancy)

TECHNICAL SERVICES SECTION

Technical Services Manager	G Low, BAppSc, ADipA(Mitchell), GradDipManagement(CIAE), MACS
Technologist:	T Roggenkamp, BSc(Qld)
Senior Technician:	I Jaskiewicz, BAppSc
Technicians:	S J Duffy, BAppSc H Bellman, ElecEng(Electronics) (UN Rosario)
Laboratory Assistants:	E Creevy, AssDipRuralTechniques(QAC) S Diefenbach D Lacy A Pisasale
Laboratory Attendant:	J Romaguera

INFORMATION SECURITY RESEARCH CENTRE

Director:	W Caelli, BSc(Hons)(Newcastle), PhD(ANU), FACS, MIEEE, MACM
Secretary:	A Hamburger

SCHOOL OF COMPUTING SCIENCE

Head of School:	(Vacant)
Academic Support Officer	C Murphy, BA(Qld)
Secretary:	L Doolan
Principal Lecturer	K J Gough, MSc PhD(Well), FNZEI, MIEEE, MACM, MACS
Senior Lecturers:	P T J Cattell, BSc BEd DipCompSc(Qld), MSc(Essex), MACS G M Mohay, BSc(Hons)(WA), PhD(Monash), MACS, MACM, AIEEE J Sitte, PhD(Uppsala), GMIEA, MAPS
Lecturers:	K F Anderson, BSc(Hons)(S'clyde), DipEd(Dun), DipInfProc(Qld), MACS, MACM R J Christie, BA DipCompSc(NE), DipTeach(Newcastle) J D Day, BE(Hons)(Syd), DipCompSc MEngSc PhD(Qld), MACS, MACM G D Finn, BSc(Hons) PhD(Qld), MS(Hawaii) J R Hynd, BSc(Hons)(Qld), PhD(Syd), MACS, MACM G Low, BAppSc, ADipA(Mitchell), GradDipManagement(CIAE), MACS M G Roggenkamp, BEd(James Cook), DipCompSc MScSt(Qld), MACS, MACM, AIEEE A Rosel, BEng(Rheinland)
Senior Tutors:	J Holford, DipEd(Qld), BAppSc GradDipCompSc A O'Hagan, BSc(Qld)

SCHOOL OF INFORMATION SYSTEMS

Head of School:	(Vacant)
Academic Support Officer:	M McDowell, BA(Qld), BSc(SocSc)(Hons) (Bristol)
Secretary:	G Hughes
Principal Lecturers:	J C Owen, BA(Hons)(Lond), MA PhD(Qld), AdvCertLibSci, MLS(Pitts), ALAA B A Underwood, MS(MIS)(TexasTech), MBA(Qld), BBus, MACS
Senior Lecturers:	A Anderson, BSc, MInfSys(Qld), MACS B F Carroll, BA(Carleton), MLS(W Ontario) R W Smyth, BA(Qld), MSc(Aston), DipEd,DipInfProc(Qld), MACS, AISA, UKSS A B Tickle, BSc DipCompSci MSc(Qld), GradDipManagement(CIAE), MACS
Lecturers:	G D Best, BAppSc, MACS, MACM G de Jager, BSc(NE), MBA(UNSW), MACS D Edmond, BSc(Hons)(Edin) S Geva, BSc(Hebrew), GradDipComComp J S Goodell, BA(Lafayette Coll), MS, Adv.MLS, PhD(Flor State), AAIM, ARMA K Ling, BSc(Melb),GradDipDP (Caulfield), GMIEA, MACS S Reiss, BA(San Fran State), BA(Hons) MLitStud(Qld), MACS, FIDP J Reye, BSc(Hons)(Qld), MACS, MACM M Sandow-Quirk, BA(Hons)(Melb), MLib(Monash), GradDipLibSc(RMIT), ALAA C Tilley, BA(Hons)(Qld), DipContEd (NE), GradDipLibSc, ALAA, AAIM J J White, MA MLS(W Ontario), PhD(Qld), ALAA S Willie, BA(Utah), MBA(Br Col), MAMA, MMRS, MAUUG
Senior Tutors:	P Bancroft, BSc MScSt(Qld), GradDipCommComp A Rhodes, BAppSc

Courses Offered

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COURSES OFFERED BY THE FACULTY OF INFORMATION TECHNOLOGY

INN236	Master of Applied Science (Computing)
ASN184	Master of Applied Science (by Research and Thesis)
INJ232	First Year - Bachelor of Business (Computing) and Bachelor of Applied Science (Computing)

SCHOOL OF COMPUTING SCIENCE

CSM219	Graduate Diploma in Computing Science
CSJ128	Bachelor of Applied Science (Computing) - (Second and Third Year)
IFJ222	Bachelor of Engineering/Bachelor of Applied Science (Electronic Systems and Computing)

SCHOOL OF INFORMATION SYSTEMS

ISM204	Graduate Diploma in Commercial Computing
ISM165	Graduate Diploma in Library Science
ISJ210	Bachelor of Business (Computing) - (Second and Third Year)
ISJ243	Bachelor of Business (Information Management)
IFJ235	Bachelor of Business (Computing)/Bachelor of Laws

General Course Rules
Assessment Policies
Course Structures

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GENERAL COURSE RULES

These rules pertain to the following courses:

Master of Applied Science (Computing);
Graduate Diploma in Commercial Computing;
Graduate Diploma in Computing Science;
Bachelor of Applied Science (Computing);
Bachelor of Business (Computing), including this component of the combined Computing/Laws degree; and
Bachelor of Business (Information Management)

The rules for the research Masters program, the Graduate Diploma in Library Science and the joint Bachelor of Engineering/Bachelor of Applied Science degree appear in the appropriate course entries in this section.

(a) A registered student may enrol either as a full-time student or a part-time student.

(b) Full-time students normally attend day classes associated with their study program. They may, however, elect or be required to attend some evening classes. Part-time students normally attend evening classes associated with their study program. They may, however, elect to attend some day classes.

(c) The method of assessment to be used in the case of each subject will be as approved by the Academic Board and may comprise one or more of -

written and/or oral tests;
general assignments;
laboratory exercises and reports;
projects, etc.

(d) A student who submits work for assessment after the formally notified due date will be penalised. (Refer this section for details.)

(e) Students in a full-time course or a part-time course gain credits for passed subjects and are required to repeat failed subjects only.

(f) Students who pass all subjects in one semester of a particular full-time or part-time program as set out in the relevant course rules will be expected to enrol in the subjects set out for the following semester of the relevant program in those rules. Timetables are organised on the basis of this normal progression.

(g) (i) A pre-requisite subject is one which must be passed before proceeding to a further subject which has the pre-requisite so specified.

(ii) A co-requisite subject is one which, if not previously passed, must be studied concurrently with another subject with which it is a co-requisite.

(iii) Where a pre-requisite or co-requisite subject is designated as a repeat-requisite (indicated by the post-script [R]), the pre-requisite or co-requisite requirement may be satisfied by the student having attempted the subject but a passing grade is not essential. A student is deemed to have attempted the subject if all assessment requirements have been attempted when registered for the subject.

(h) Students who fail subjects shall be allowed to proceed with the study of some or all of the subjects from the next semester of the program provided that -

(i) they have satisfied the pre- and co-requisite requirements as defined in Rule (g) and as set out in Section 11; and

(ii) the hours associated with the selected program fall between the maximum and minimum hours defined in Rules (i) and (j) and;

(iii) the established timetable permits the selected subjects to be studied concurrently. When timetable clashes make it necessary, full-time students may be permitted to attend evening classes,

except that, in certain circumstances, students who fail a subject which is a pre-requisite for a second subject may nevertheless be deemed eligible to enrol in the second subject, such eligibility being determined by the Head of School administering the second subject.

(i) Except with the approval of the Head of School, the total number of hours associated with the subjects selected for study by full-time students should not exceed the number of hours allocated to the semester of the normal program in the relevant course rules and from which the majority of subjects have been selected.

Except with the approval of the Head of the School, the minimum number of subjects selected for study by full-time students should not fall below the following guidelines for the relevant level of course:

. Post-Graduate Courses (by Coursework): 4 subjects per semester (unless fewer than 4 are required in order to complete the course);

Bachelor's Degree: 5 subjects per semester (unless fewer than 5 subjects are required in order to complete the course).

(j) Except with the approval of the Head of School, the maximum number of hours allowable for study by part-time students are as specified in any one year of the relevant course rules.

Except with the approval of the Head of the School, the minimum number of subjects selected for study by part-time students should not fall below the following guidelines for the relevant level of course:

- Post-Graduate Courses (by Coursework): 2 subjects per semester (unless fewer subjects are required in order to complete the course).
- Bachelor's Degree: 2 subjects per semester (unless fewer subjects are required for completion of the course).

(k) No formal supplementary examinations will be offered following the semester examinations. However, if an examiner considers such action justified, a student may be recalled for further assessment. On the basis of this additional testing, a pass may be granted.

Students who are required to present themselves for further assessment should contact the Faculty to ascertain the nature of the further assessment. In all cases the requirements for further assessment must be completed by a date not later than the end of the first week of the following semester.

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

(m) Some essential teaching activities conducted off-campus involve field trips. The Academic Board is required to approve essential field trips for each semester and students are expected to attend all such field trips.

IMPORTANT ASSESSMENT POLICIES

These policies pertain to all students in the following courses:

Master of Applied Science (Computing);
Graduate Diploma in Commercial Computing;
Graduate Diploma in Computing Science;
Bachelor of Applied Science (Computing);
Bachelor of Business (Computing) including this component of the combined Computing/Laws degree; and
Bachelor of Business (Information Management).

POLICY ON LATE ASSIGNMENTS

(Does not apply to Computing Practice subjects.)

1. Assignments will not be accepted if more than two weeks late or if the material has been subsequently reviewed in class, unless:

   (a) mitigating medical or personal circumstances exist;
   (b) a project problem occurs where it is a unique project not identical to that done by other students/groups; and
   (c) a part-timer is interstate/overseas etc. for an extended period.

2. Assignments received up to two weeks late will be accepted but a sliding scale of penalties will apply. The default penalty scale to operate in the Faculty is provided in 3 below, however, individual lecturers may establish different penalties for their subject. Details of all penalty scales will be provided in all subject study guides.

3. The default penalties are:

   1 working day late - 10% of the mark given is deducted;
   2 working days late - 20% of the mark given is deducted;
   3 - 4 working days late - 30% of the mark given is deducted;
   5 - 7 working days late - 40% of the mark given is deducted;
   8 - 10 working days late - 50% of the mark given is deducted.

POLICY ON DEFERRED EXAMINATIONS AND NON-ATTENDANCE OF EXAMINATIONS

1. Students who enrol upon a course are under an obligation to ensure their availability during the examination period - which may include Saturdays.

2. Students should not undertake external obligations during the semester if such obligations conflict with the abovementioned requirement.

3. Inability to attend an examination may result from:

   (a) an obligation imposed upon a student by some external body;

   (b) illness or incapacity during the examination period.

   In the former case the student must inform the Dean of Faculty as soon as the situation arises. If the stated circumstances are deemed to warrant the student's absence then arrangements can be made for the student to sit the examination before the due date. In the latter case the student should inform the Dean of Faculty as soon as possible. An application for a deferred examination must then be made with a doctor's certificate.

4. A deferred examination is not an appropriate course of action if the student has, for any reason, been unable to undertake studies during semester time. In this case the Head of School may permit a cancellation of enrolment. Thus if a student has been ill, or subject to external domestic/employment pressures then a cancellation of enrolment will be an appropriate course of action.

5. Deferred examinations will not necessarily be of the same format as the original examination, e.g. deferred examinations may take the form of an oral examination held as soon as the student is available for assessment.

6. Students should not expect to be granted an unlimited number of deferred examinations.

7. Members of staff are not empowered to offer students any arrangements other than a normal examination. All decisions on deferred examinations are made by the Dean of Faculty.

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.

INN236 MASTER OF APPLIED SCIENCE - COMPUTING

The following rules relate to the Master of Applied Science - Computing course and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS

Registrants are required to have completed a degree level course which contains a major component in computing or, alternatively, a degree course and a graduate diploma level course in computing. The minimum level of performance expected within pre-requisite studies is a GPA (grade point average) of 4.00 (or its equivalent) on a 7 point scale. Selection may be determined on an individual basis and subject to the approval of the Head of School.

2. GENERAL COURSE RULES

See this Section of the Handbook.

3. EXEMPTIONS

Registrants may be eligible for up to a maximum of 4 exemptions on the basis of equivalent subjects completed in earlier studies other than Honours or Masters qualifying. Those registrants who have completed a suitable Honours degree or who have completed a Masters qualifying program may be exempted up to half of the subjects of the course, typically those subjects in years 1 and 2. The granting of any exemption is subject to the approval of the Head of School.

4. COURSE STRUCTURE

The course structure comprises core, project and elective components. The student intake will be heterogeneous and some students may need to undertake advanced undergraduate subjects which are pre-requisite to core subjects. A maximum of four such subjects may be credited towards the requirements for completion of the course which entails completion of 16 semester subjects.

THE CORE COMPONENT comprises six subjects and for students with all necessary pre-requisite qualifications these subjects will be undertaken in the first four semesters of the part-time course.

THE PROJECT COMPONENT comprises four to six semester subjects, depending upon student choice. At least one major (two-semester) project must be included in this component.

The number of ADVANCED ELECTIVES taken by an individual student will depend upon the number of pre-requisite subjects undertaken and number of projects selected. A minimum of two electives must be selected and thus students may select two to six topics from this range.

5. COURSE CONTENT

A listing of all subjects by subject groups, the designated subject contact hours and minimum and maximum subject requirements within subject groups is provided below.

CATEGORY/SUBJECT CODE AND TITLE		EFTSU Credit	Approx Formal Hrs/wk
UNDERGRADUATE PRE-REQUISITE ELECTIVES -			
The maximum number of subjects in this category which may be counted towards the course requirements is 4.			
CORE SUBJECTS -			
All subjects in this category must be completed.			
CSN100	Theory of Computing I	12	3
CSN110	Compiler Construction	12	3
CSN200	Computer Security	12	3
CSN210	Distributed Systems	12	3
CSN220	Artificial Intelligence	12	3
ISN100	Information Systems I	12	3
PROJECT WORK SUBJECTS -			
The minimum number of subjects which must be completed is 4; the maximum is 6.			
INN300-303	Minor Project	12	3
INN400	Major Project - Part I (mandatory)	12	3
INN450	Major Project - Part II (mandatory)	12	3
ADVANCED ELECTIVE SUBJECTS -			
The minimum number of subjects required is 2; the maximum is 6.			
CSN300	Theory of Computing II	12	3
CSN310	Parallel Processing	12	3
CSN320	Formal Secure Systems	12	3
CSN330	Natural Language Processing	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics I	12	3
CSN360	Advanced Graphics II	12	3
INN310	Advanced Data Communications	12	3
ISN300	Information Systems II	12	3
TOTAL FOR COURSE = 16 SUBJECTS			

Students should note that the offering of elective subjects in any semester will depend upon sufficient minimum enrolments in the subject, and the availability of staff.

6. COURSE PROGRAM - FULL-TIME

It should be noted that due to pre-requisite limitations, the scheduling of subjects for full-time study programs will need to be negotiated with individual students. All such programs must be approved by the Dean of Faculty.

7. COURSE PROGRAM - PART-TIME

Extremal examples of conforming overall programs are:

EXAMPLE	CATEGORY OF SUBJECTS	NUMBER OF SUBJECTS
(1)	Undergraduate pre-requisite subjects	4
	Core subjects	6
	Project Work subjects	4
	Advanced Elective subjects	2
	(TOTAL = 16)	
(2)	Undergraduate pre-requisite subjects	0
	Core subjects	6
	Project Work subjects	6
	Advanced Elective subjects	4
	(TOTAL = 16)	
(3)	Undergraduate pre-requisite subjects	0
	Core subjects	6
	Project Work subjects	4
	Advanced Elective subjects	6
	(TOTAL = 16)	

A typical sequence of subjects for the example (3) program (part-time) is:

Semester 1 - Autumn		Approx Formal Hrs/k
CSN100	Theory of Computing 1	3
CSN110	Compiler Construction	3
Semester 2 - Spring		
ISN100	Information Systems 1	3
	Elective	3
Semester 3 - Autumn		
CSN200	Computer Security	3
CSN210	Distributed Systems	3
Semester 4 - Spring		
CSN220	Artificial Intelligence	3
	Elective	3

		Approx Formal Hrs/wk
Semester 5 - Autumn		
INN300	Minor Project	3
	Elective	3
Semester 6 - Spring		
INN301	Minor Project	3
	Elective	3
Semester 7 - Autumn		
INN400	Major Project - Part I	3
	Elective	3
Semester 8 - Spring		
INN450	Major Project - Part II	3
	Elective	3

Since there are no pre-requisites between the core subjects offered in Year 1 and 2, these subjects may be offered on alternate years. The first two years in the above sequence may thus be taken in either order.

8. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

9. SUBJECT SYNOPSES

See Section 10 of this Handbook.

ISM204 GRADUATE DIPLOMA IN COMMERCIAL COMPUTING

The following rules relate to the Graduate Diploma in Commercial Computing and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS

Normal Entry

An applicant seeking admission into the Graduate Diploma in Commercial Computing is required to:

(a) hold a degree or a diploma in a discipline other than computing* from a recognised university or College of Advanced Education;

(b) have completed, at a degree level, an introductory subject in computing (the equivalent of at least three hours per week for one semester).

In the case where an applicant has a diploma, the Head of School may require the applicant to undertake additional work prior to admittance to the course.

* Applicants with undergraduate degrees or diplomas which include major studies in computing will not be eligible for admission into the course.

Special Entry

Applicants who do not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Admissions Committee. Such applications will be considered by the Admissions Committee in terms of overall academic achievement. Work experience and the requirements of the course may also be considered.

2. GENERAL COURES RULES

See this Section of the Handbook.

3. ASSESSMENT

To be credited with a semester subject, a student must obtain a pass in the assessment program and satisfy such assignment requirements as are approved by the Academic Board of the Faculty of Information Technology.

4. EXEMPTIONS

Rules concerning the granting of exemptions are detailed under 'Rules Relating to Student Matters' - see Section 3 of this Handbook.

5. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student enrolled in the one year full-time Graduate Diploma in Commercial Computing a sample program of study is set out overleaf. Where possible, full-time students attend classes during the day, however, subject to Head of School approval, they may elect or be required to attend some evening classes. Students wishing to enrol in a full-time program should discuss choice of subjects with the relevant Course Co-ordinator.

Semester 1 - Autumn		EFTSU Credit	Approx Formal Hrs/wk
ISP100	The Computer System	12	4
ISP101	Data Design and Processing	12	4
ISP200	Systems Analysis and Design	12	3
ISP201	Data Communications	12	3
Semester 2 - Spring			
	Elective		3-4
	Elective		3-4
	Elective		3-4
	Elective		3-4

PART-TIME PROGRAM:

For a registered student enrolled in the part-time Graduate Diploma in Commercial Computing course, the subjects and other work of the two years of study are as follows:

Semester 1 - Autumn		EFTSU Credit	Approx Formal Hrs/wk
ISP100	The Computer System	12	4
ISP101	Data Design and Processing	12	4
Semester 2 - Spring			
ISP200	Systems Analysis and Design	12	3
ISP201	Data Communications	12	3
Semester 3 - Autumn			
	Elective		3-4
	Elective		3-4
Semester 4 - Spring			
	Elective		3-4
	Elective		3-4

6. ELECTIVES

Four electives are to be chosen from the following offerings:

		EFTSU Credit	Approx Formal Hrs/Wk
Autumn Offerings			
ACP111	Accounting Principles I	12	3
ISP301	Advanced Database	12	4
ISP303	Programming	12	4
ISP998	Special Topic in Commercial Computing	12	3
Spring Offerings			
ACB695	Computer Security and Audit	12	3
ISB303	Office Information Systems	12	3
ISB314	Information Systems Management	12	3
ISP400	Advanced Programming	12	4
ISP401	Computing Project	12	4
ISB999	Special Topic in Commercial Computing	12	3

or an approved subject from the offerings of the School of Computing Science or Faculty of Business. Selection of all electives is subject to the approval of the Head, School of Information Systems and students who do not have sufficient programming experience will be required to select appropriate elective subjects. Students will also be counselled to undertake the Computing Project, except in the cases of students whose employment or prior experience might reduce its value compared with an alternative elective.

Students should note that the offering of elective subjects in any semester will depend upon sufficient minimum enrolments in the subject, and the availability of staff.

7. FIELD TRIPS

Field trips are incorporated as part of the teaching strategy in the core subjects ISP100 The Computer System and ISP200 Systems Analysis and Design. In the case of ISP100, visits to computer sites draw together for students the aspects of hardware, software and application; and for ISP200, field trips provide live case study material related to the application of analysis and design methodologies and techniques.

8. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

9. SUBJECT SYNOPSES

See Section 10 of this Handbook.

CSM219 GRADUATE DIPLOMA IN COMPUTING SCIENCE

The following rules relate to the Graduate Diploma in Computing Science and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS

Normal Entry:

An applicant seeking admission into the Graduate Diploma in Computing Science is required to:

(a) hold a degree (UG1) in a discipline other than computing* from a recognised university or college of advanced education;

(b) have completed, within their degree studies, an introductory level subject in mathematics and Pascal programming (the equivalent of at least three hours per week for one semester in each).

* Applicants with undergraduate degrees which include major studies in computing will not be eligible for admission into the course.

Special Entry:

Provision may be made for applicants whose degrees have not included introductory mathematics and/or computing to complete these subjects before entering the course. Such additional studies would be in subjects taken from existing UG1 courses.

2. GENERAL COURSE RULES

See this Section of the Handbook.

3. EXEMPTIONS

Rules concerning the granting of exemptions are detailed under "Rules Relating to Student Matters" - see Section 3 of this Handbook.

According to these rules, students in the Graduate Diploma in Computing Science may be granted exemption from a maximum of two of the nine prescribed subjects on the basis of their prior studies. Students who have been granted the maximum exemptions will, therefore, be required to complete a minimum of seven subjects in order to qualify for the award. Should such students have studied material similar to that included in any of the remaining prescribed subjects of the course, substitute subjects may be taken.

All exemptions or substitutions shall be determined by the Head, School of Computing Science.

4. PROJECT WORK

As part of the core of the course, all students must complete a project extending over one semester, approved and subsequently supervised by teaching staff from the Faculty of Information Technology. In addition, students will be permitted to undertake an extra project subject as an elective, but not in the same semester.

5. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student enrolled in the one year full-time Graduate Diploma in Computing Science a sample program of study is set out below. Full time students normally attend classes during the day. However, subject to Head of School approval, they may elect or be required to attend some evening classes. Students wishing to enrol in a full-time program should discuss choice of subjects with the Course Co-ordinator.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
CSB200	Foundations of Computing I	12	3
CSP213	Scientific Applications	12	3
ISP101	Data Design and Processing	12	4
INP270	Data Communications	12	3
Semester 2 - Spring			
CSB210	Foundations of Computing II	12	3
CSP211	Systems Architecture and Operating Systems	12	3
CSP960	Project Work	12	3
	Elective		3-4
	Elective		3-4

PART-TIME PROGRAM:

For a registered student enrolled in the part-time Graduate Diploma in Computing Science course, the subjects and other work of the two years of study are as follows:

		EFTSU Credit	Approx Formal Hrs/Wk
Semester 1 - Autumn			
CSP112	Software Principles	12	3
ISP101	Data Design and Processing	12	4
Semester 2 - Spring			
CSP211	Systems Architecture and Operating Systems	12	3
CSP214	Programming Languages and Structures	12	3
INP270	Data Communications	12	3

Semester 3 - Autumn			
CSP213	Scientific Applications	12	3
	Elective		3-4
Semester 4 - Spring			
CSP960	Project Work	12	3
	Elective		3-4

6. ELECTIVES

The two electives may be selected from the following list of subjects:

		EFTSU Credit	Approx Formal Hrs/wk
Information Systems Subjects:			
ISB202	Database and Procedural Languages	12	3
ISP301	Advanced Database	12	4
ISB303	Office Information Systems	12	3
ISP998	Special Topic in Commercial Computing	12	3
Computing Science Subjects:			
CSB212	Languages and Language Processing	12	3
CSB320	Special Studies	12	3
CSB321	Graphics	12	3
CSB323	Data Security	12	3
CSB324	Artificial Intelligence	12	3
CSB325	Expert Systems	12	3
CSP970	Project Work A*	12	4

* Not to be taken concurrently with CSP960 Project Work.

The selection of elective subjects other than those listed is subject to the approval of the Head, School of Computing Science.

Students should note that the offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff.

7. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

8. SUBJECT SYNOPSES

See Section 10 of this Handbook.

ISM165 GRADUATE DIPLOMA IN LIBRARY SCIENCE

The following rules relate to the Graduate Diploma in Library Science and are made by resolution of the University Council.

1. To be eligible to register for courses leading to the Graduate Diploma in Library Science, applicants should hold a degree, other than in librarianship, from an Australian University or College of Advanced Education.

2. Applicants who do not thus qualify for eligibility to register, but who present documentary evidence of their academic qualifications (e.g. a degree from an overseas university or a diploma (UG2 award) from an Australian College of Advanced Education or a diploma from a professional organisation) and have this evidence accepted by the Admissions Committee as having attained an equivalent standard, may be admitted to the course.

3. Registered students may enrol either as full-time or part-time students. Full-time students normally attend classes during the day. However, subject to Head of School approval, they may elect or be required to attend some evening classes.

   Part-time students are usually in employment and normally attend classes during the evening. However, subject to Head of School approval, they may elect or be required to attend some day classes.

4. Subjects to be studied for the Graduate Diploma in Library Science will normally be completed in one year of full-time study, or two years of part-time study. However, under certain circumstances, part or all of the requirements for ISP428 Field Experience may be delayed until after the completion of other course work. For full details see paragraphs 15, 16 and 17.

5. The subjects and other work for full-time students working for the Graduate Diploma in Library Science, are listed in Rule 15. Those for part-time students are listed in Rule 16.

6. Registered students in the Graduate Diploma course will normally progress in the sequence indicated in the relevant normal course program. Timetables are arranged on the basis of the normal progression.

7. To be credited with a semester subject, students must obtain a pass in the assessment program as approved by the Academic Board of the Faculty of Information Technology for that subject and also satisfy such attendance and assignment requirements as are specified for the subject.

8. Except in special circumstances and with the approval of the Head of School, in any one semester full-time students may not enrol for more than five subjects, and part-time students may not enrol for more than three subjects (exclusive of ISP428 Field Experience).

9. Students who fail one or more required subjects in a semester must re-enrol and repeat the subjects failed as soon as the timetable permits enrolment in the subjects failed. They may also enrol for other subjects of the program subject to course rules (see especially Rules 8, 11 and 12) provided the timetable permits enrolment in the subjects desired.

10. Registered students enrolled as full-time students who, for whatever reason, do not successfully complete all subject requirements within one academic year, may subsequently be required to attend evening rather than day classes in order to complete the course.

11. Except with the approval of the Head of School, students may not enrol for any subject in their course of study unless they have passed in all subjects prescribed as pre-requisite subjects. (Refer to Section 11 of this Handbook for pre-requisite details.)

12. Except with the approval of the Head of School, students may not enrol for any subject in their course of study unless they have passed or are concurrently enrolled for all subjects prescribed as co-requisite subjects. (Refer to Section 11 of this Handbook for co-requisite details.)

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

14. All subjects listed in the course will necessitate the collection of data from sources off-campus. Students are required independently to carry out sufficient field trips to collect such data.

15. For a registered student in the full-time Graduate Diploma in Library Science, the subjects and other work of the course are as follows -

COURSE PROGRAM - FULL-TIME

			EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn				
ISP410	Collection Building and Use I		12	3
ISP411	Information Storage and Retrieval I		12	3
ISP412	Information Users and Services I	] OR	12	3
ISP422	Information Users and Services II		12	3
ISP413	Information Agency Management and Services I		12	3
	Elective		12	3
Semester 2 - Spring				
ISP420	Collection Building and Use II		12	3
ISP421	Information Storage and Retrieval II		12	3
ISP422	Information Users and Services II	] OR	12	3
ISP412	Information Users and Services I		12	3
ISP423	Information Agency Management and Services II		12	3
ISP428	Field Experience*		0	-
	Elective		12	3

16. For a registered student in the part-time Graduate Diploma in Library Science, the subjects and other work of the course are as follows -

COURSE PROGRAM - PART-TIME

			EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn				
ISP411	Information Storage and Retrieval I		12	3
ISP412	Information Users and Services I	] OR	12	3
ISP422	Information Users and Services II		12	3
Semester 2 - Spring				
ISP421	Information Storage and Retrieval II		12	3
ISP422	Information Users and Services II	] OR	12	3
ISP412	Information Users and Services I		12	3
ISP428	Field Experience (may be deferred)*			
Semester 3 - Autumn				
ISP410	Collection Building and Use I		12	3
ISP413	Information Agency Management and Services I		12	3
ISP428	Field Experience (may be deferred)*		0	-
	Elective		12	3

Semester 4 - Spring

ISP420	Collection Building and Use II	12	3
ISP423	Information Agency Management and Services II	12	3
ISP428	Field Experience (unless previously completed)*	0	-
	Elective	12	3

* See Section 18 for details

17. ELECTIVES

Two electives are to be chosen from the following offerings:

		EFTSU Credit	Approx Formal Hrs/wk
AUTUMN OFFERINGS:			
ISP414	Library Service to Young People	12	3
ISP415	Basic Media Creativity	12	3
ISP417	Special Topic/General Elective*	12	3
ISP418	Information and Referral Services	12	3
ISP419	Government Documents	12	3
SPRING OFFERINGS:			
ISP425	Advanced Media Production	12	3
ISP427	Special Topic/General Elective*	12	3
ISP429	Information Brokerage	12	3
ISP430	Library Systems Evaluation	12	3

* Choice of general electives is subject to approval by the Head of School.

Students should note that the offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff.

18. FIELD EXPERIENCE

All students are required to complete satisfactorily a minimum of six weeks Field Experience working under appropriately controlled conditions, in a library approved by the Head of the School. Field experience may normally be divided into no more than two separate periods of three weeks apiece. For full-time students part or all of the Field Experience may be gained during the University vacation or delayed until after the conclusion of course work.

Part-time students are normally expected to complete their field work requirements during the University vacation, but if there are compelling reasons for doing so Field Experience may be delayed until after the conclusion of other course work. All students who delay field work must fulfil the total field work period within six months of successfully completing all other course requirements. Credit will not normally be given for work experience for full-time students prior to successful completion of the first semester's work, or for part-time students prior to successful completion of two semesters' work. Part-time students, working for salary in an approved library during their course period, whose work experience for at least the minimum six weeks meets the required conditions of appropriate level and diversity, may receive field work credit.

Students are not required to enrol in the subject ISP428 (Field Experience), however field work arrangements for all students must be channelled through the Field Work Co-ordinator in the School of Information Systems. Credit for this component of the course will be given only after completion of all field work requirements.

19. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

20. SUBJECT SYNOPSES

See Section 10 of this Handbook.

CSJ128 BACHELOR OF APPLIED SCIENCE - COMPUTING

The following rules relate to the Bachelor of Applied Science - Computing and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS - Refer to QUT Admission Procedures booklet.

2. GENERAL COURSE RULES - See this Section of the Handbook.

3. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student in the full-time Bachelor of Applied Science - Computing course, the subjects comprising the curriculum of the six semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
	Semester 1 - Autumn		
	CSB100 Introduction to Computer Science	12	3
	CSB101 Computer Systems I	12	3
COMMON	INB100 Computing Practice I	12	3
FIRST	ISB101 Application Systems	12	3
YEAR	ISB102 Representation of Information	12	3
(COURSE			
CODE :	**Semester 2 - Spring**		
INJ232)	ACB181 Accounting Information Systems I	12	3
	CMB104 Professional Communication	12	3
	CSB110 Programming Principles	12	3
	INB150 Computing Practice II	12	3
	MAB172 Quantitative Methods IB	12	3
Semester 3 - Autumn			
CSB200	Foundations of Computing I	12	3
CSB201	Computer Systems II	12	3
INB200	Computing Practice III	12	3
INB270	Data Communications	12	3
ISB202	Database and Procedural Languages	12	3
Semester 4 - Spring			
CSB210	Foundations of Computing II	12	3
CSB212	Languages and Language Processing	12	3
CSB213	Scientific Applications	12	3
INB250	Computing Practice IV	12	3
ISB201	Information Systems Analysis and Design I	12	3
Semester 5 - Autumn			
CSB301	Operating Systems	12	3
CSB302	Software Engineering	12	3
INB300	Project Work*	12	3
	Elective		
	Elective		

* Run over two semesters.

		EFTSU	Approx Formal Hrs/Wk
Semester 6 - Spring			
CSB311	Advanced Computer Architectures	12	3
INB300	Project Work*	12	3
	Elective		
	Elective		
	Elective		

* Run over two semesters.

PART-TIME PROGRAM:

For a registered student in the part-time Bachelor of Applied Science - Computing course, the subjects comprising the curriculum of the twelve semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
	Semester 1 - Autumn		
	CSB101 Computer Systems I	12	3
	INB105 Computing Practice IA	6	1½
	ISB102 Representation of Information	12	3
	Semester 2 - Spring		
	CSB100 Introduction to Computer Science	12	3
COMMON	INB110 Computing Practice IB	6	1½
FIRST	ISB101 Application Systems	12	3
YEAR			
(COURSE	Semester 3 - Autumn		
CODE	ACB181 Accounting Information Systems I	12	3
INJ232)	INB155 Computing Practice IIA	6	1½
	MAB172 Quantitative Methods IB	12	3
	Semester 4 - Spring		
	CMB104 Professional Communication	12	3
	CSB110 Programming Principles	12	3
	INB160 Computing Practice IIB	6	1½
Semester 5 - Autumn			
CSB200	Foundations of Computing I	12	3
CSB201	Computer Systems II	12	3
INB205	Computing Practice IIIA	6	1½
Semester 6 - Spring			
INB210	Computing Practice IIIB	6	1½
INB270	Data Communication	12	3
ISB202	Database and Procedural Languages	12	3
Semester 7 - Autumn			
CSB210	Foundations of Computing II	12	3
CSB213	Scientific Applications	12	3
INB255	Computing Practice IVA	6	1½

		EFTSU Credit	Approx Formal Hrs/Wk
Semester 8 - Spring			
CSB212	Languages and Language Processing	12	3
INB260	Computing Practice IVB	6	1½
ISB201	Information Systems Analysis and Design I	12	3
Semester 9 - Autumn			
CSB302	Software Engineering	12	3
	Elective		
	Elective		
Semester 10 - Spring			
CSB301	Operating Systems	12	3
	Elective		
	Elective		
Semester 11 - Autumn			
CSB311	Advance Computer Architecture	12	3
INB300	Project Work*	12	3
Semester 12 - Spring			
INB300	Project Work*	12	3
	Elective		

'OLD' COURSE PROGRAM:

For a registered full-time or part-time student continuing in the 'old' Bachelor of Applied Science - Computing course program, the subjects comprising the remaining studies are to be determined in consultation with the Head, School of Computing Science. Studies may include combinations of 'old' and 'new' replacement subjects. Full details of the 'old' course structure and relevant subject synopses are available in the 1986 edition of the Faculty Handbook.

4. ELECTIVES

Electives are to be chosen from:		EFTSU Credit	Approx Formal Hrs/wk
Computing Science Subjects:			
CSB320	Special Studies	12	3
CSB321	Graphics	12	3
CSB323	Data Security	12	3
CSB324	Artificial Intelligence	12	3
CSB325	Expert Systems	12	3
INB280	Industrial Training Experience#		-
Information Systems Subjects:			
ISB210	Information Systems Analysis and Design II	12	3
ISB302	Database Management	12	3
ISB303	Office Information Systems	12	3

* Run over two semesters.
\# Refer sub-section 5 for details.

Other Subjects:		EFTSU Credit	Approx Formal Hrs/wk
INB099	English for Academic Purposes*	12	3
MNB103	Management I	12	3
MNB091	Marketing	12	3

* Subject to approval by the Dean of Faculty.

Other electives may be selected subject to the approval of the Head of the School offering the subject.

Students should note that the offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff.

5. INDUSTRIAL TRAINING EXPERIENCE (IBN280)

THE AIMS:

The purpose of the industrial training period is to provide students with experience of a real world environment prior to the study of the more advanced aspects of the course. This experience will:

(a) enable the student to place the concepts learnt in the first two years in context; and

(b) provide an experience that will enhance the benefits obtained from final year subjects.

The industrial training period will, necessarily, involve a period of re-orientation and on-the-job training but students will be expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers will not be expected to provide formal training.

FEATURES:

(a) The Faculty will assist students to obtain suitable employment for the one year period and will also discuss the nature of the work to be undertaken with the employer.

(b) An academic member of staff will normally visit the student once per semester and discuss progress with the student and a representative of the employer.

(c) At the end of the training period the student will write a report on the total training period, submit it to the employer for endorsement and comment, and then hand it to the course co-ordinator for assessment.

(d) A pass in this module will be granted on the basis of:

- satisfactory completion of an approved period of industrial training; and
- submission of a satisfactory report on the year's experience. The report must be submitted not later than the commencement of the semester following the training period.

(e) It is anticipated that a salary will be paid to the student by the employer during this training period.

(f) The Faculty will carefully monitor all industrial placements and build up a list of employers prepared to offer training. When the scheme is fully established it is hoped that at least 50% of full-time students will undertake this option. The Faculty will make its best endeavours to find suitable training places for all students electing to undertake this option but it cannot guarantee such employment to each individual student who applies.

(g) Part-time students may apply for credit towards this option on the basis of their employment. Credit would be granted on the basis of a two year period of full-time employment in an approved environment and compliance with a number of administrative requirements:

- a statement from the course co-ordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
- two annual visits by a member of academic staff to the student and employer; and
- a satisfactory report, written by the student, endorsed by the employer and submitted no later than the commencement of the semester following the training period.

(h) It is intended that full-time students on the scheme will devote their prime efforts to the industrial training module and will not, therefore, be permitted to register for more than one other subject per semester during the training year.

6. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

7. SUBJECT SYNOPSES

See Section 10 of this Handbook.

ISJ210 BACHELOR OF BUSINESS - COMPUTING

The following rules relate to the Bachelor of Business - Computing and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS - Refer to QUT Admission Procedures booklet.

2. GENERAL COURSE RULES - See this Section of the Handbook.

3. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student in the full-time Bachelor of Business - Computing course, the subjects comprising the curriculum of the six semesters of study are as follows:

			EFTSU Credit	Approx Formal Hrs/wk
	Semester 1 - Autumn			
	CSB100	Introduction to Computer Science	12	3
	CSB101	Computer Systems I	12	3
COMMON	INB100	Computing Practice I	12	3
FIRST	ISB101	Application Systems	12	3
YEAR	ISB102	Representation of Information	12	3
(COURSE				
CODE :	Semester 2 - Spring			
INJ232)	ACB181	Accounting Information Systems I	12	3
	CMB104	Professional Communication	12	3
	CSB110	Programming Principles	12	3
	INB150	Computing Practice II	12	3
	MAB172	Quantitative Methods IB	12	3
Semester 3 - Autumn				
INB200		Computing Practice III	12	3
INB270		Data Communications	12	3
ISB201		Information Systems Analysis and Design I	12	3
ISB202		Database and Procedural Languages	12	3
MNB405		Management Science A	12	3
Semester 4 - Spring				
ACB513		Managerial Accounting I	12	6
INB250		Computing Practice IV	12	3
ISB210		Information Systems Analysis and Design II	12	3
MNB103		Management I	12	3
		General Elective*		

* ISB999 Special Topic in Business Computing may be undertaken as a General Elective.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
INB300	Project Work#	12	3
ISB301	Advanced Information Systems	12	3
ISB302	Database Management	12	3
ISB303	Office Information Systems	12	3
	Business Elective		
Semester 6 - Spring			
INB300	Project Work#	12	3
ISB313	Expert Information Systems	12	3
ISB314	Information Systems Management	12	3
	Business Elective		
	Business Elective		

Run over two semesters.

PART-TIME PROGRAM

For a registered student in the part-time Bachelor of Business - Computing course, the subjects comprising the curriculum of the twelve semesters of study are as follows:

			EFTSU Credit	Approx Formal Hrs/wk
	Semester 1 - Autumn			
	CSB101	Computer Systems I	12	3
	INB105	Computing Practice IA	6	1½
	ISB102	Representation of Information	12	3
	Semester 2 - Spring			
	CSB100	Introduction to Computer Science	12	3
COMMON FIRST YEAR (COURSE CODE : INJ232)	INB110	Computing Practice IB	6	1½
	ISB101	Application Systems	12	3
	Semester 3 - Autumn			
	ACB181	Accounting Information Systems I	12	3
	INB155	Computing Practice IIA	6	1½
	MAB172	Quantitative Methods IB	12	3
	Semester 4 - Spring			
	CMB104	Professional Communication	12	3
	CSB110	Programming Principles	12	3
	INB160	Computing Practice IIB	6	1½
Semester 5 - Autumn				
INB205		Computing Practice IIIA	6	1½
ISB201		Information Systems Analysis and Design I	12	3
MNB405		Management Science A	12	3
Semester 6 - Spring				
INB210		Computing Practice IIIB	6	1½
INB270		Data Communications	12	3
ISB202		Database and Procedural Languages	12	3

		EFTSU Credit	Approx Formal Hrs/wk
Semester 7 - Autumn			
INB255	Computing Practice IVA	6	1½
ISB210	Information Systems Analysis and Design II	12	3
MNB103	Management I	12	3
Semester 8 - Spring			
ACB513	Managerial Accounting I	12	6
INB260	Computing Practice IVB	6	1½
	General Elective*		
Semester 9 - Autumn			
ISB301	Advanced Information Systems	12	3
ISB302	Database Management	12	3
	Business Elective		
Semester 10 - Spring			
ISB303	Office Information Systems	12	3
ISB313	Expert Information Systems	12	3
ISB314	Information Systems Management	12	3
Semester 11 - Autumn			
INB300	Project Work#	12	3
	Business Elective		
Semester 12 - Spring			
INB300	Project Work#	12	3
	Business Elective		

'OLD' COURSE PROGRAM:

For a registered full-time or part-time student continuing in the 'old' Bachelor of Business - Computing course program, the subjects comprising the remaining studies are to be determined in consultation with the Head, School of Information Systems. Studies may include combinations of 'old' and 'new' replacement subjects. Full details of the 'old' course structure and relevant subject synopses are available in the 1986 edition of the Faculty Handbook.

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* ISB999 Special Topic in Business Computing may be undertaken as a General Elective.

\# Run over two semesters.

4. ELECTIVES

Students have the opportunity of choosing a total of four electives, i.e. three (3) business electives and one (1) general elective.

Business Electives: may be chosen from any subject in degree courses offered by the Faculty of Business subject to pre-requisites, availability of the subject in the timetable and approval of the Head, School of Information Systems. The offering of a subject in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff. Completion of the elective INB280 Industrial Training Experience would replace one Business Elective.

General Electives: may be chosen from any subject in any QUT degree course subject to pre-requisites, availability of the subject in the timetable and approval of the Head, School of Information Systems. The offering of a subject in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff.

A list of recommended electives is shown below:

		EFTSU Credit	Approx Formal Hrs/wk
ACB551	Financial Management I	12	3
ACB695	Computer Security and Audit +	12	3
INB099	English for Academic Purposes +	12	3
INB280	Industrial Training Experience#		-
ISB219	Advanced COBOL*	12	3
ISB999	Special Topic in Business Computing	12	3
MNB091	Marketing	12	3
MNB132	Microeconomic Analysis	12	3
MNB181	Australian National Government B	12	3
MNB203	Management II	12	3

5. INDUSTRIAL TRAINING EXPERIENCE (IBN280)

THE AIMS:

The purpose of the industrial training period is to provide students with experience of a real world environment prior to the study of the more advanced aspects of the course. This experience will:

+ Subject to approval by the Dean of Faculty.

\# Refer sub-section 5 for details.

* Full-time students undertaking the one year Industrial Training component will be encouraged to select ISB219 as their General Elective in second year.

(a) enable the student to place the concepts learnt in the first two years in context; and

(b) provide an experience that will enhance the benefits obtained from final year subjects.

The industrial training period will, necessarily, involve a period of re-orientation and on-the-job training but students will be expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers will not be expected to provide formal training.

FEATURES:

(a) The Faculty will assist students to obtain suitable employment for the one year period and will also discuss the nature of the work to be undertaken with the employer.

(b) An academic member of staff will normally visit the student once per semester and discuss progress with the student and a representative of the employer.

(c) At the end of the training period the student will write a report on the total training period, submit it to the employer for endorsement and comment, and then hand it to the course co-ordinator for assessment.

(d) A pass in this module will be granted on the basis of:

- satisfactory completion of an approved period of industrial training; and
- submission of a satisfactory report on the year's experience. The report must be submitted not later than the commencement of the semester following the training period.

(e) It is anticipated that a salary will be paid to the student by the employer during this training period.

(f) The Faculty will carefully monitor all industrial placements and build up a list of employers prepared to offer training. When the scheme is fully established it is hoped that at least 50% of full-time students will undertake this option. The Faculty will make its best endeavours to find suitable training places for all students electing to undertake this option but it cannot guarantee such employment to each individual student who applies.

(g) Part-time students may apply for credit towards this option on the basis of their employment. Credit would be granted on the basis of a two year period of full-time employment in an approved environment and compliance with a number of administrative requirements:

- a statement from the course co-ordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
- two annual visits by a member of academic staff to the student and employer; and
- a satisfactory report, written by the student, endorsed by the employer and submitted no later than the commencement of the semester following the training period.

(h) It is intended that full-time students on the scheme will devote their prime efforts to the industrial training module and will not, therefore, be permitted to register for more than one other subject per semester during the training year.

6. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

7. SUBJECT SYNOPSES

See Section 10 of this Handbook.

ISJ243 BACHELOR OF BUSINESS - INFORMATION MANAGEMENT

The following rules relate to the Bachelor of Business - Information Management and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS - Refer to QUT Admission Procedures booklet.

2. GENERAL COURSE RULES - See this Section of the Handbook.

3. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student in the full-time Bachelor of Business - Information Management course, the subjects comprising the curriculum of the six semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/k
Semester 1 - Autumn			
CSB100	Introduction to Computer Science	12	3
CSB101	Computer Systems I	12	3
INB100	Computing Practice I	12	3
ISB101	Application Systems	12	3
ISB102	Representation of Information	12	3
Semester 2 - Spring			
ACB181	Accounting Information Systems I	12	3
CMB104	Professional Communication	12	3
CSB110	Programming Principles	12	3
INB150	Computing Practice II	12	3
ISB113	Principles of Information Management	12	3
Semester 3 - Autumn			
INB200	Computing Practice III	12	3
ISB201	Information Systems Analysis and Design I	12	3
ISB203	Advanced Database	12	3
ISB215	External Sources of Information	12	3
MNB103	Management I	12	3
Semester 4 - Spring			
INB250	Computing Practice IV	12	3
INB270	Data Communications	12	3
ISB214	The Information Resource	12	3
LWS004	Information Managers and the Law	12	3
MNB418	Applied Cognitive Psychology	12	3

		EFTSU Credit	Approx Formal Hrs/wk
Semester 5 - Autumn			
ISB216	Political and Social Aspects of Information Technology	12	3
ISB301	Advanced Information Systems	12	3
ISB303	Office Information Systems	12	3
MNB091	Marketing	12	3
MNB591	Economics of Information	12	3
Semester 6 - Spring			
ISB305	Project*/General Elective	12	3
ISB314	Information Systems Management	12	3
ISB316	Information Support Systems	12	3
ISB317	Special Topic#/General Elective	12	3
ISB318	Strategic Information Management	12	3

PART-TIME PROGRAM:

For a registered student in the part-time Bachelor of Business - Information Management course, the subjects comprising the curriculum of the twelve semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
CSB101	Computer Systems I	12	3
INB105	Computing Practice IA	6	1½
ISB102	Representation of Information	12	3
Semester 2 - Spring			
CSB100	Introduction to Computer Science	12	3
INB110	Computing Practice IB	6	1½
ISB101	Application Systems	12	3
Semester 3 - Autumn			
ACB181	Accounting Information Systems I	12	3
INB155	Computing Practice IIA	6	1½
ISB113	Principles of Information Management	12	3
Semester 4 - Spring			
CMB104	Professional Communication	12	3
CSB110	Programming Principles	12	3
INB160	Computing Practice IIB	6	1½
Semester 5 - Autumn			
INB205	Computing Practice IIIA	6	1½
ISB215	External Sources of Information	12	3
MNB103	Management I	12	3

* Where a student has completed the Industrial Training Year he/she may do an elective instead of a project.

\# Special Topic may be taken as an Elective.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 6 - Spring			
INB210	Computing Practice IIIB	6	1½
ISB214	The Information Resource	12	3
MNB418	Applied Cognitive Psychology	12	3
Semester 7 - Autumn			
INB255	Computing Practice IVA	6	1½
ISB201	Information Systems Analysis and Design I	12	3
ISB203	Advanced Database	12	3
Semester 8 - Spring			
INB260	Computing Practice IVB	6	1½
INB270	Data Communications	12	3
LWS004	Information Managers and the Law	12	3
Semester 9 - Autumn			
ISB216	Political and Social Aspects of Information Technology	12	3
ISB301	Advanced Information Systems	12	3
MNB591	Economics of Information	12	3
Semester 10 - Spring			
ISB314	Information Systems Management	12	3
ISB316	Information Support Systems	12	3
ISB317	Special Topic#/General Elective	12	3
Semester 11 - Autumn			
ISB303	Office Information Systems	12	3
MNB091	Marketing	12	3
Semester 12 - Spring			
ISB305	Project*/General Elective	12	3
ISB318	Strategic Information Management	12	3

* Where a student has completed the Industrial Training Year he/she may do an elective instead of a project.
\# Special Topic may be taken as an Elective.

4. ELECTIVES

INB099	English for Academic Purposes*	12	3
INB280	Industraial Training Experience#	-	

* Subject to the approval of the Dean of Faculty.
\# Refer sub-section 5 for details.

General Electives: may be chosen from any subject in any QUT degree course subject to pre-requisites, availability of the subject in the timetable and approval of the Head, School of Information Systems. The offering of a subject in any semester will depend on sufficient minimum enrolments in the subject, and the availability of staff.

5. INDUSTRIAL TRAINING EXPERIENCE (INB280)

THE AIMS:

The purpose of the industrial training period is to provide students with experience of a real world environment prior to the study of the more advanced aspects of the course. This experience will:

(a) enable the student to place the concepts learnt in the first two years in context; and

(b) provide an experience that will enhance the benefits obtained from final year subjects.

The industrial training period will, necessarily, involve a period of re-orientation and on-the-job training but students will be expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers will not be expected to provide formal training.

FEATURES:

(a) The Faculty will assist students to obtain suitable employment for the one year period and will also discuss the nature of the work to be undertaken with the employer.

(b) An academic member of staff will normally visit the student once per semester and discuss progress with the student and a representative of the employer.

(c) At the end of the training period the student will write a report on the total training period, submit it to the employer for endorsement and comment, and then hand it to the course co-ordinator for assessment.

(d) A pass in this module will be granted on the basis of:

- satisfactory completion of an approved period of industrial training; and
- submission of a satisfactory report on the year's experience. The report must be submitted not later than the commencement of the semester following the training period.

(e) It is anticipated that a salary will be paid to the student by the employer during this training period.

(f) The Faculty will carefully monitor all industrial placements and build up a list of employers prepared to offer training. When the scheme is fully established it is hoped that at least 50% of full-time students will undertake this option. The Faculty will make its best endeavours to find suitable training places for all students electing to undertake this option but it cannot guarantee such employment to each individual student who applies.

(g) Part-time students may apply for credit towards this option on the basis of their employment. Credit would be granted on the basis of a two year period of full-time employment in an approved environment and compliance with a number of administrative requirements:

- a statement from the course co-ordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
- two annual visits by a member of academic staff to the student and employer; and
- a satisfactory report, written by the student, endorsed by the employer and submitted no later than the commencement of the semester following the training period.

(h) It is intended that full-time students on the scheme will devote their prime efforts to the industrial training module and will not, therefore, be permitted to register for more than one other subject per semester during the training year.

6. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook.

7. SUBJECT SYNOPSES

See Section 10 of this Handbook.

IFJ235 BACHELOR OF BUSINESS - COMPUTING/ BACHELOR OF LAWS

The following rules relate to the Bachelor of Business - Computing/Bachelor of Laws and are made by resolution of the University Council.

1. ENTRY REQUIREMENTS

Normal Entry

(i) Students undertaking year 11 and year 12 under the semester rating system: Applicants, must obtain a Tertiary Entrance Score of 830 and, in addition, obtain a total of 16 points in both English and Mathematics over 4 semesters (or, in the case of ROSBA applicants, attain a level of "sound achievement" in English and Mathematics).

(ii) Students undertaking the External Senior Examination: Applicants must obtain an aggregate of 22 points over five Board of Secondary Schools subjects and, in addition, a grade of 4 in both English and Mathematics.

Adult Entry: Students undertaking the External Senior Examination who are 21 years of age or over on or prior to 31st December of the year in which the examination leading to the last relevant results was taken, must obtain an aggregate of 18 points over 4 Board subjects and, in addition, a grade of 4 in both English and Mathematics.

Special Consideration: Applicants who do not meet the requirements for normal or other entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the University Admissions Committee.

Additional Requirement for Entry: In addition to being eligible for entry under any of the above categories, an applicant must also have a TE Score sufficient to gain a place in the year in question in whichever of the Bachelor of Business - Computing and Bachelor of Laws full-time courses has the higher minimum entrance TE Score, i.e. cut-off TE Score, in that year.

2. GENERAL COURSE RULES

See this section of the Handbook for those rules pertaining to the Bachelor of Business - Computing component of the joint program; rules relating to the Bachelor of Laws course are outlined in the Faculty of Law Handbook.

3. COURSE PROGRAM - FULL-TIME

For a registered student in the full-time Bachelor of Business - Computing/Bachelor of Laws program, the subjects comprising the curriculum of the ten semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
CSB100	Introduction to Computer Science	12	3
CSB101	Computer Systems I	12	3
INB100	Computing Practice I	12	3
ISB101	Application Systems	12	3
ISB102	Representation of Information	12	3
Semester 2 - Spring			
CMB104	Professional Communication	12	3
CSB110	Programming Principles	12	3
INB150	Computing Practice II	12	3
ISB201	Information Systems Analysis and Design I	12	3
MAB172	Quantitative Methods IB	12	3
Semester 3 - Autumn			
INB200	Computing Practice III	12	3
INB270	Data Communications	12	3
ISB202	Database and Procedural Languages	12	3
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
Semester 4 - Spring			
INB250	Computing Practice IV	12	3
ISB210	Information Systems Analysis and Design II	12	3
ISB302	Database Management	12	3
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
Semester 5 - Autumn			
INB300	Project Work	12	3
ISB301	Advanced Information Systems	12	3
LWB103	Torts	12	3
LWB201	Land Law*	12	3
LWB202	Criminal Law and Procedure*	12	3
Semester 6 - Spring			
ISB313	Expert Information Systems	12	3
ISB314	Information Systems Management	12	3
LWB103	Torts*	12	3
LWB201	Land Law*	12	3
LWB202	Criminal Law and Procedures*	12	3

* These subjects are run over two semesters

			EFTSU Credit	Approx Formal Hrs/wk
Semester 7 - Autumn				
LWB203	Constitution Law*		12	3
LWB301	Equity*		12	3
LWB303	Commercial Law*		12	3
LWB304	Conveyancing & Drafting* (intending Solicitors)	OR	8	2
LWB305	Jurisprudence (intending Barristers)	OR	12	3
	Law Elective			3
Semester 8 - Spring				
LWB203	Constitutional Law*		12	3
LWB301	Equity*		12	3
LWB303	Commercial Law*		12	3
LWB304	Conveyancing & Drafting* (intending Solicitors)	OR	8	2
LWB310	Administrative Law (intending Barristers)	OR	12	3
LWB408	Securities/LWB409 Professional Conduct		8	2
Semester 9 - Autumn				
LWB309	Succession		8	2
LWB401	Company Law & Partnership*		12	3
LWB403	Taxation Law*		12	3
LWB404	Practice*		8	2
LWB405	Solicitors' Trust Accounts (intending Solicitors)	OR	8	2
LWB407	Conflict of Laws (intending Barristers)	OR	12	3
Semester 10				
LWB401	Company Law & Partnership*		12	3
LWB402	Evidence		12	3
LWB403	Taxation Law*		12	3
LWB404	Practice*		8	2

4. PRE-REQUISITES AND CO-REQUISITES

See Section 7 of this Handbook for the pre-requisite and co-requisite requirements for all computing science(CS), information systems (IS) and information technology (IN) subjects; refer to the appropriate section in the Faculty of Law Handbook for the pre-requisite and co-requisite requirements for all law (LW) subjects.

5. SUBJECT SYNOPSES

See Section 10 of this Handbook for the synopses for all computing science (CS), information systems (IS) and information technology (IN) subjects; refer to the appropriate section in the Faculty of Law Handbook for the synopses for all law (LW) subjects.

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* These subjects are run over two semesters

IFJ222 BACHELOR OF ENGINEERING/ BACHELOR OF APPLIED SCIENCE - ELECTRONIC SYSTEMS AND COMPUTING

The following rules relate to the Bachelor of Engineering/ Bachelor of Applied Science - Electronic Systems and Computing and are made by resolution of the University Council.

1. GENERAL COURSE RULES

The program is administered by the Bachelor of Engineering/ Bachelor of Applied Science Joint Degree Executive Committee hereinafter referred to as the "Joint Degree Committee". The Administrator of the Joint Degree Committee shall be the designated senior academic in charge of the course, hereinafter referred to as the "Administrator".

In these rules, unless otherwise indicated by the context, "Faculties" and "Academic Boards" will refer to both the Faculty of Information Technology and the Faculty of Engineering and their respective Academic Boards; where reference is made, in these or other University rules, to Head of School it shall be deemed to refer to the Administrator of the Joint Degree Committee.

(1) Entry Requirements - Refer to QUT Admission Procedures booklet.

(2) Enrolment

(a) Registered students may enrol as full-time or as part-time students.

(i) full-time students will normally attend day-time classes in accordance with the normal course program for five years full-time study. They may, however, elect or be required to attend some evening classes.

(ii) part-time students will normally attend both day and evening classes in accordance with the normal course program for seven years part-time study. They will be required to obtain release from full-time employment for the equivalent of one full day per week to attend those classes which are available only in the day as designated by (D) in the part-time program.

(b) The course must be completed in an orderly progression, following the appropriate normal course program, subject to pre- and co-requisite conditions. Timetables will be organised on the basis of such orderly progression. A student may not enrol in a subject if, within the constraints of pre- and co-requisites and timetables, there are subjects in earlier semesters which are still to be completed, except with the permission of the Administrator after written application to the Registrar.

(c) (i) A pre-requisite subject is a subject which must be passed before attempting a subject for which it is a pre-requisite.

(ii) A co-requisite subject is a subject which, if not previously passed, must be attempted concurrently with the subject for which it is a co-requisite.

(iii) A repeat pre- or co-requisite, designated by the postscript [R], is a pre- and co-requisite subject that must have been attempted, but not necessarily passed, to satisfy the pre- or co-requisite condition. A student is deemed to have attempted a subject if enrolled in the subject and all assessment requirements of the subject have been attempted.

(d) Except with the permission of the Administrator, students may not enrol in subjects whose total hours exceed the hours in the appropriate normal course program for the semester from which the majority of the subjects have been selected.

(e) Unregistered Students: A person may apply to study any individual subject as an unregistered student. He/she may be permitted to enrol, subject to course entry, pre- and co-requisite conditions, provided that there are vacancies in the subject and under the "Rules Relating to Unregistered Students".

(f) Notwithstanding the above rules on enrolments, where a student enrols in a program which differs from the appropriate normal course program the Administrator may vary that program on consideration of the student's advantage in completing the course.

(3) Employment

All students shall have engaged in at least a total of 15 weeks employment approved by the Administrator to satisfy the Vacation Practice requirements of the course.

To gain approval for the employment, students must submit a description of their employment to the Administrator on the appropriate Industrial Experience Record form completed by both the student and employer.

(4) Assessment

(a) The form of assessment includes formal semester and deferred examinations, written tests, assignments, practical work and reports, design and project work with reports and oral tests, according to the subject. Where an examiner considers that the normal semester assessment is insufficient to determine the student's grade, further assessment, which may be in the form of a supplementary examination or other test, may be required. A student who is required to undertake further assessment should ascertain from the Administrator the nature of the extra assessment.

(b) A student who fails to attend 80% of the total instruction in any subject, including compulsory field trips as detailed in subject synopses, or who fails to submit 80% of all practical or assignment work may be deemed by the Administrator as ineligible to sit for the semester examination.

(5) Honours

The Bachelor of Engineering degree may be awarded with First Class, Second Class Division A or Second Class Division B Honours or as a Pass Degree. Candidates for the award with Honours must fulfil the requirements of the Pass degree and achieve such standards of excellence in prescribed subjects of the double degree course as may, from time to time, be determined by the Engineering Academic Board and approved by the Academic Assembly.

(6) Exemptions

(a) Rules relating to exemptions are detailed under "Rules Relating to Student Matters". In special circumstances the Joint Degree Committee may waive these rules on consideration of written application to the Registrar.

(b) For a registered student to obtain an exemption in a subject by studying an equivalent subject elsewhere, prior approval must be obtained by application to the Registrar in writing.

(7) Dress

Academic Board may require students to wear appropriate attire during field trips and industrial visits. Students must comply with any particular safety requirements in respect to dress that may be applicable to such visits and in the use of laboratories and workshop.

2. COURSE PROGRAM

FULL-TIME PROGRAM:

For a registered student in the full-time Bachelor of Engineering/Bachelor of Applied Science - Electronic Systems and Computing course, the subjects comprising the curriculum of the ten semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
CSB100	Introduction to Computer Science	12	3
EEB101	Circuits and Measurements	6	3
EEB202	Electromagnetics	6	3
INB125	Computing Practice IA	6	1½
ISB102	Representation of Information	12	3
MAB193	Engineering Mathematics I *	6	3
PHB131	Engineering Physics I *	6	3
Semester 2 - Spring			
CMB108	English for Technologists	6	3
CSB101	Computer Systems 1	12	3
CSB110	Programming Principles	12	3
EEB203	Circuit Analysis	6	3
EEB272	Digital Principles	3	1½
EEB901	Vacation Practice I	0	5 wks
INB130	Computing Practice IB	6	1½
INB180	Computing Practice IIB	6	1½
MAB193	Engineering Mathematics I *	6	3
PHB131	Engineering Physics I *	6	3
Semester 3 - Autumn			
CSB200	Foundations of Computing 1	12	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	6	3
EEB361	Telecommunications	6	3
EEB371	Electronic Devices	6	3
EEB372	Digital Electronics 1	6	3
INB225	Computing Practice 111A	6	1½
MAB493	Engineering Mathematics 11 *	6	3

* These subjects are run over two semesters

		EFTSU Credit	Approx Formal Hrs/wk
Semester 4 - Spring			
CSB210	Foundations of Computing 11	12	3
CSB213	Scientific Applications	12	3
EEB401	Network Theory 11	6	3
EEB471	Electronics	6	3
EEB472	Digital Electronics 11	6	3
EEB561	Communication Engineering 1	6	3
EEB902	Vacation Practice 11	0	5 wks
INB275	Computing Practice 1VA	6	1½
MAB493	Engineering Mathematics 11 *	6	3
Semester 5 - Autumn			
CSB201	Computer Systems 11	12	3
EEB520	Control Engineering 1	6	3
EEB572	Digital Electronics 111	6	3
EEB573	Industrial Electronics	6	3
EEB587	Electronic Systems Engineering Design 1	6	3
MAB295	Applied Mathematics	6	3
MAB893	Engineering Mathematics 111	6	3
Semester 6 - Spring			
CSB212	Languages and Language Processing	12	3
CSB301	Operating Systems	12	3
EEB620	Control Engineering 11	6	3
EEB661	Communication Engineering 11	6	3
EEB672	Digital Electronics IV	6	3
EEB903	Vacation Practice 111	0	5 wks
INB281	Computing Practice IVB	6	1½
MAB894	Engineering Mathematics IV	6	3
PHB430	Engineering Physics IV	6	3
Semester 7 - Autumn			
CSB302	Software Engineering	12	3
EEB501	Advanced Measurement and Instrumentation	6	3
EEB562	Transmission and Propagation	6	3
EEB761	Communication Engineering III	6	3
EEB788	Electronic Systems Engineering Design II	6	3
MEB770	Industrial Administration and Engineering I	6	3
Semester 8 - Spring			
CSB311	Advanced Computer Architectures	12	3
EEB601	Realtime Computing	6	3
EEB602	Signal Processing	6	3
EEB621	Industrial Control I	6	3
EEB887	Electronic Systems Engineering Design III	6	3
EEB971	Applied Electronics	6	3
MEB870	Industrial Administration and Engineering II	6	3

* These subjects are run over two semesters.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 9 - Autumn			
EEB701	Seminars and Technical Communication *	4	2
EEB789	Project (Electronics and Computing) *	12	6
EEB968	Digital Signal Processing	6	3
	Computing Elective		
	Electronic Systems Elective		
Semester 10 - Spring			
EEB701	Seminars and Technical Communication *	4	2
EEB789	Project (Electronics and Computing) *	12	6
EEB888	Electronic Systems Engineering Design IV	6	3
	Computing Elective		
	Electronic Systems Elective		

PART-TIME:

For a registered student in the part-time Bachelor of Engineering/Bachelor of Applied Science - Electronic Systems and Computing course, the subjects comprising the curriculum of the fourteen semesters of study are as follows:

		EFTSU Credit	Approx Formal Hrs/wk
Semester 1 - Autumn			
CSB100	Introduction to Computer Science	12	3
EEB101	Circuits and Measurement	6	3
EEB202	Electromagnetics	6	3
INB130	Computing Practice IA	6	1½
MAB193	Engineering Mathematics I *	6	3
PHB131	Engineering Physics I *	6	3
Semester 2 - Spring			
EEB203	Circuit Analysis	6	3
EEB272	Digital Principles	3	1½
EEB901	Vacation Practice I	0	5 wks
INB180	Computing Practice IIB	6	1½
CSB101	Computer Systems I	12	3
MAB193	Engineering Mathematics I *	6	3
PHB131	Engineering Physics I *	6	3
Semester 3 - Autumn			
ISB102	Representation of Information	12	3
CSB200	Foundations of Computing I	12	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory I	6	3
INB225	Computing Practice IIIA	6	1½
MAB493	Engineering Mathematics II *	6	3

* These subjects are run over two semesters.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 4 - Spring			
CSB110	Programming Principles	12	3
CSB213	Scientific Applications	12	3
EEB401	Network Theory II	6	3
EEB902	Vacation Practice II	0	5 wks
INB130	Computing Practice IB	6	1½
INB275	Computing Practice IVA	6	1½
MAB493	Engineering Mathematics II *	6	3
Semester 5 - Autumn			
CSB210	Foundations of Computing II	12	3
EEB361	Telecommunications	6	3
EEB371	Electronic Devices	6	3
EEB372	Digital Electronics I	6	3
MAB893	Engineering Mathematics III	6	3
Semester 6 - Spring			
EEB471	Electronics	6	3
EEB472	Digital Electronics II	6	3
EEB561	Communication Engineering I	6	3
EEB903	Vacation Practice III	0	5 wks
MAB894	Engineering Mathematics IV	6	3
Semester 7 - Autumn			
CSB201	Computer Systems II	12	3
EEB572	Digital Electronics III	6	3
EEB573	Industrial Electronics	6	3
EEB587	Electronic Systems Engineering Design I	6	3
Semester 8 - Spring			
CMB108	English for Technologists	6	3
CSB212	Languages and Language Processing	12	3
EEB602	Signal Processing	6	3
EEB672	Digital Electronics IV	6	3
INB275	Computing Practice IVA	6	1½
INB281	Computing Practice IVB	6	1½
Semester 9 - Autumn			
CSB301	Operating Systems	12	3
CSB302	Software Engineering	12	3
EEB661	Communication Engineering II	6	3
EEB520	Control Engineering I	6	3
MAB295	Applied Mathematics	6	3
Semester 10 - Spring			
CSB311	Advanced Computer Architectures	12	3
EEB620	Control Engineering II	6	3
EEB621	Industrial Control I	6	3
EEB761	Communication Engineering III	6	3
PHB430	Engineering Physics IV	6	3

* These subjects are run over two semesters.

		EFTSU Credit	Approx Formal Hrs/wk
Semester 11 - Autumn			
EEB501	Advanced Measurements and Instrumentation	6	3
EEB562	Transmission and Propagation	6	3
EEB788	Electronic Systems Engineering Design II	6	3
MEB770	Industrial Administration and Engineering I	6	3
	Computing Elective		
Semester 12 - Spring			
EEB601	Realtime Computing	6	3
EEB887	Electronic Systems Engineering Design III	6	3
EEB971	Applied Electronics	6	3
MEB870	Industrial Administration and Engineering II	6	3
	Computing Elective		
Semester 13 - Autumn			
EEB701	Seminars and Technical Communication *	4	2
EEB789	Project (Electronics and Computing) *	12	3(D) 3(E)
EEB968	Digital Signal Processing	6	3
	Electronic Systems Elective		
Semester 14 - Spring			
EEB701	Seminars and Technical Communication *	4	2
EEB789	Project (Electronics and Computing) *	12	3(D) 3(E)
EEB888	Electronic Systems Engineering Design IV	6	3
	Electronic Systems Elective		

* These subjects are run over two semesters.
(D) Day classes
(E) Evening classes

3. ELECTIVES

Computing Electives Any two of the following to be completed:		EFTSU Credit	Approx Formal Hrs/wk
CSB320	Special Studies	12	3
CSB321	Graphics	12	3
CSB323	Data Security	12	3
CSB324	Artificial Intelligence	12	3
CSB325	Expert Systems	12	3
ISB201	Information Systems Analysis and Design I	12	3
ISB202	Database and Procedural Languages	12	3
ISB210	Information Systems Analysis and Design II	12	3

The selection of elective subjects other than those listed is subject to the approval of the Head, School of Computing Science.

Electronic Systems Electives: Any two of the following to be completed:		EFTSU Credit	Approx Formal Hrs/wk
EEB522	Control Engineering II (T)	6	3
EEB623	Industrial Systems I (T)	6	3
EEB662	Microwave and Antenna Techniques (T)	6	3
EEB722	Industrial Control II	6	3
EEB931	Industrial Systems II	6	3
EEB961	Communication Techniques	6	3
EEB962	Microwave Systems Engineering	6	3
EEB972	Integrated Electronic Techniques	6	3
EEB973	Microprocessors in Industry	6	3
MAB920	Coding and Encryption Techniques	6	3

Selected subjects from the Electrical Engineering strand of the Bachelor of Engineering course as permitted by the Head of School.

4. PRE-REQUISITES AND CO-REQUISITES

Refer to the appropriate section of the Faculty of Engineering Handbook.

5. SUBJECT SYNOPSES

See Section 10 of this Handbook for the synopses for all computing science (CS), information systems (IS) and information technology (IN) subjects and electives; refer to the appropriate section in the Faculty of Engineering Handbook for the synopses for all engineering subjects and electives.

Pre- and Co-requisites

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PRE-REQUISITES AND CO-REQUISITES

(i) A pre-requisite subject is one which must be passed before proceeding to a further subject which has the pre-requisite so specified.

(ii) A co-requisite subject is one which, if not previously passed, must be studied concurrently with another subject with which it is a co-requisite.

(iii) Where a pre-requisite or co-requisite subject is designated as a repeat-requisite (indicated by the post-script [R]), the pre-requisite or co-requisite requirement may be satisfied by the student having attempted the subject but a passing grade is not essential. A student is deemed to have attempted the subject if all assessment requirements have been attempted when registered for the subject.

Subjects are listed in alphabetical order by title within course levels. Subjects not listed have no pre-requisite or co-requisite subjects.

MASTERS COURSE

Subject	Pre-requisite(s)	Co-requisite(s)
INN310 Advanced Data Communications	INB270 Data Communications (or equivalent)	
CSN350 Advanced Graphics I	CSB321 Graphics (or equivalent)	
CSN360 Advanced Graphics II	CSN350 Advanced Graphics I	
CSN220 Artificial Intelligence	An undergraduate level artificial intelligence or expert systems subject.	
CSN110 Compiler Construction	CSB212 Languages and Language Processing (or equivalent)	
CSN340 Compiler Laboratory	CSN110 Compiler Construction	
CSN210 Distributed Systems	CSB301 Operating Systems (or equivalent) CSB311 Advanced Computer Architectures (or equivalent)	

Subject	Pre-requisite(s)	Co-requisite(s)
CSN320 Formal Secure Systems	CSN100 Theory of Computing I CSN200 Computer Security	
ISN100 Information Systems I	ISB201 Information Systems Analysis and Design I (or equivalent)	
ISN300 Information Systems II	ISN100 Information Systems I	
INN400 Major Project - Part I	Completion of 8 subjects of the Master of Applied Science (Computing)	
INN450 Major Project - Part II	INN400 Major Project - Part I	
CSN330 Natural Language Processing	An introductory undergraduate subject in natural language processing.	
CSN310 Parallel Processing	CSN210 Distributed Systems	
CSN100 Theory of Computing I	CSB210 Foundations of Computing II (or equivalent)	
CSN300 Theory of Computing II	CSN100 Theory of Computing I	

POST-GRADUATE DIPLOMA COURSES

Subject	Pre-requisite(s)	Co-requisite(s)
ISP301 Advanced Database	ISP101 Data Design and Processing	
ISP425 Advanced Media Production	ISP415 Basic Media Creativity	
ISP400 Advanced Programming	ISP303 Programming	
CSB324 Artificial Intelligence	CSP214 Programming Languages and Structures OR CSB210 Foundations of Computing II	

Subject	Pre-requisite(s)	Co-requisite(s)
ISP420 Collection Building and Use II	ISP410 Collection Building and Use I	
ISP401 Computing Project	Completion of six subjects of the Graduate Diploma in Commercial Computing	
ISB202 Database and Procedural Languages	ISP101 Data Design and Processing	(ISP101 Data Design and Processing) OR (CSP112 Software Principles)
INP270 Data Communications	CSP112 Software Principles	
ISP201 Data Communications	ISP100 The Computer System	(ISP100 The Computer System) OR (CSP112 Software Principles)
ISP101 Data Design and Processing		ISP100 The Computer System OR CSP112 Software Principles
CSB323 Data Security	INP270 Data Communications	
CSB325 Expert Systems	CSP214 Programming Languages and Structures OR CSB200 Foundations of Computing I	
CSB210 Foundations of Computing II	CSB200 Foundations of Computing I OR CSP402 Programming Languages and Sturctures	
CSB321 Graphics	CSP214 Programming Languages and Structures CSP211 Systems Architecture and Operating Systems	

Subject	Pre-requisite(s)	Co-requisite(s)
ISP423 Information Agency Management and Services II	ISP413 Information Agency Management and Services I	
ISP421 Information Storage and Retrieval II	ISP411 Information Storage and Retrieval I	
ISB314 Information Systems Management	Completion of three-quarters of the Graduate Diploma in Commercial Computing	
CSB212 Languages and Language Processing	CSP214 Programming Languages and Structures OR CSB200 Foundations of Computing I	
ISP430 Library Systems Evaluation	ISP413 Information Agency Management and Services I	
ISB303 Office Information Systems	INP270 Data Communications; and ISP101 Data Design and Processing OR ISP201 Data Communications	
ISP303 Programming	ISP100 The Computer System ISP101 Data Design and Processing	
CSP214 Programming Languages and Structures	CSP112 Software Principles	
CSP960 Project Work	Students normally undertake their project in the final semester of the Graduate Diploma in Computing Science	
CSP970 Project Work A	Completion of at least half of the Graduate Diploma in Computing Science	
CSP213 Scientific Applications	CSP112 Software Principles	

Subject	Pre-requisite(s)	Co-requisite(s)
CSB320 Special Studies	Completion of at least half of the Graduate Diploma in Computing Science	
ISP998 Special Topic /ISP999 in Commercial Computing	See School announcements	
ISP417 Special Topic - Library Science	See School announcements	
ISP427 Special Topic - Library Science	See School announcements	
ISP200 Systems Analysis and Design	ISP101 Data Design and Processing) OR (	(ISP101 Data Design and Processing
CSP211 Systems Architecture and Operating Systems	CSP112 Software Principles OR CSB200 Foundations of Computing I	
ISP100 The Computer System	ISB392 Computer Systems and Programming (or equivalent)	

BACHELOR COURSES

Subject	Pre-requisite(s)	Co-requisite(s)
ISB219 Advanced COBOL	ISB202 Database and Procedural Languages	
CSB311 Advanced Computer Architectures	CSB201 Computer Systems II	
ISB203 Advanced Database	ISB102 Representation of Information	
ISB301 Advanced Information Systems	ISB201 Information Systems Analysis and Design I	
MNB418 Applied Cognitive Psychology	MNB103 Management I	
CSB324 Artificial Intelligence	CSB210 Foundations of Computing II	

Subject	Pre-requisite(s)	Co-requisite(s)
ACB695 Computer Security and Audit	ISB210 Information Systems Analysis and Design II	
CSB201 Computer Systems II	CSB101 Computer Systems I	
INB100 Computing Practice I INB105 Computing Practice IA INB110 Computing Practice IB INB125 Computing Pracice IA INB130 Computing Practice 1B INB150 Computing Practice II INB155 Computing Practice IIA INB160 Computing Practice IIB INB180 Computing Practice IIB INB200 Computing Practice III INB205 Computing Practice IIIA INB210 Computing Practice IIIB INB225 Computing Practice IIIA INB250 Computing Practice IV INB255 Computing Practice IVA INB260 Computing Practice IVB INB275 Computing Practice IVA INB281 Computing Practice IVB		Core topics in appropriate semester.
ISB202 Database and Procedural Languages	CSB110 Programming Principles	
ISB302 Database Management	ISB202 Database and Procedural Languages	
INB270 Data Communications	CSB101 Computer Systems I	

Subject	Pre-requisite(s)	Co-requisite(s)
CSB323 Data Security	INB270 Data Communications	
ISB313 Expert Information Systems	ISB301 Advanced Information Systems	
CSB325 Expert Systems	CSB210 Foundations of Computing II	
ACB551 Financial Management I	ACB513 Managerial Accounting I MAB172 Quantitative Methods IB	
CSB200 Foundations of Computing I	CSB110 Programming Principles	
CSB210 Foundations of Computing II	CSB200 Foundations of Computing I	
CSB321 Graphics	CSB210 Foundations of Computing II CSB212 Languages and Language Processing	
INB280 Industrial Training Experience	Full-time students-completion of two years of the full-time degree course.	
ISB316 Information Support Systems	ISB203 Advanced Database	
ISB201 Information Systems Analysis and Design I	CSB101 Computer Systems I ISB102 Representation of Information	
ISB210 Information Systems Analysis and Design II	ISB201 Information Systems Analysis and Design I	
ISB314 Information Systems Management	Completion of two-thirds of either the Bachelor of Business (Computing) or the Bachelor of Business (Information Management) courses	

Subject	Pre-requisite(s)	Co-requisite(s)
CSB212 Languages and Language Processing	CSB200 Foundations of Computing I	
MNB203 Management II	MNB103 Management I	
MNB405 Management Science A	MAB172 Quantitative Methods IB	
ACB513 Managerial Accounting I	ACB181 Accounting Information Systems I	
ISB303 Office Information Systems	INB270 Data Communications	
CSB301 Operating Systems	CSB201 Computer Systems II	
ISB216 Political and Social Impacts of Information Technology	ISB113 Principles of Information Management	
CSB110 Programming Principles	CSB100 Introduction to Computer Science	
ISB305 Project	Successful completion of two thirds of the Bachelor of Business (Information Management) course and CMB104 Professional Communication	
INB300 Project Work	Successful completion of at least the equivalent of two-thirds of the normal degree course program; and CMB104 Professional Communication	
CSB213 Scientific Applications	CSB110 Programming Principles	
CSB302 Software Engineering	CSB210 Foundations of Computing II CSB212 Languages and Language Processing	

Subject	Pre-requisite(s)	Co-requisite(s)
CSB320 Special Studies	Completion of at least half of the normal program of the Bachelor of Applied Science (Computing)	
ISB999 Special Topic in Business Computing	See School announcement	
ISB317 Special Topic in Information Management	See School Announcement	
ISB318 Strategic Information Management	ISB214 The Information Resource	
ISB214 The Information Resource	MNB103 Management 1	

Subject Schedules

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SUBJECT SCHEDULES

SCHEDULE 1 : SUBJECTS IN INFORMATION TECHNOLOGY COURSES

Schedule 1 provides a listing of all subjects offered in courses administered by the Faculty of Information Technology. The schedule presents subjects in alpha-numeric order according to their subject code and includes the codes of courses in which the subjects are offered. (A full description of the subject and course coding system is provided in relevant sections of this Handbook.)

Brief descriptions of those subjects without an asterisk are also provided; synopses for subjects with an asterisk are available in the appropriate section of the Faculty of Engineering or Faculty of Law Handbooks.

SUBJECT CODE	SUBJECT TITLE	COURSE(S)
ACB181	Accounting Information Systems I	INJ232, ISJ243
ACB513	Managerial Accounting I	ISJ210
ACB551	Financial Management I	ISJ210
ACB695	Computer Security and Audit	ISJ210, ISM204
ACP111	Accounting Principles I	ISM204
CMB104	Professional Communication	IFJ235, INJ232, ISJ243
CMB108	English for Technologists*	IFJ222
CSB100	Introduction to Computer Science	IFJ222, IFJ235, INJ232, ISJ243
CSB101	Computer Systems I	IFJ222, IFJ235, INJ232, ISJ243
CSB110	Programming Principles	IFJ222, IFJ235, INJ232, ISJ243
CSB200	Foundations of Computing I	CSJ128, CSM219, IFJ222
CSB201	Computer Systems II	CSJ128, IFJ222
CSB210	Foundations of Computing II	CSJ128, CSM219, IFJ222
CSB212	Languages and Language Processing	CSJ128, CSM219, IFJ222
CSB213	Scientific Applications	CSJ128, IFJ222
CSB301	Operating Systems	CSJ128, IFJ222
CSB302	Software Engineering	CSJ128, IFJ222
CSB311	Advanced Computer Architectures	CSJ128, IFJ222
CSB320	Special Studies	CSJ128, CSM219, IFJ222
CSB321	Graphics	CSJ128, CSM219, IFJ222
CSB323	Data Security	CSJ128, CSM219, IFJ222
CSB324	Artificial Intelligence	CSJ128, CSM219, IFJ222
CSB325	Expert Systems	CSJ128, CSM219, IFJ222
CSN100	Theory of Computing 1	INN236
CSN110	Compiler Construction	INN236
CSN200	Computer Security	INN236
CSN210	Distributed Systems	INN236
CSN220	Artificial Intelligence	INN236
CSN300	Theory of Computing II	INN236

SUBJECT CODE	SUBJECT TITLE	COURSE(S)
CSN310	Parallel Processing	INN236
CSN320	Formal Secure Systems	INN236
CSN330	Natural Language Processing	INN236
CSN340	Compiler Laboratory	INN236
CSN350	Advanced Graphics I	INN236
CSN360	Advanced Graphics II	INN236
CSP112	Software Principles	CSM219
CSP211	Systems Architecture and Operating Systems	CSM219
CSP213	Scientific Applications	CSM219
CSP214	Programming Languages and Structures	CSM219
CSP960	Project Work	CSM219
CSP970	Project Work A	CSM219
EEB101	Circuits and Measurements*	IFJ222
EEB202	Electromagnetics*	IFJ222
EEB203	Circuit Analysis*	IFJ222
EEB272	Digital Principles*	IFJ222
EEB302	Electrotechnology*	IFJ222
EEB303	Network Theory I*	IFJ222
EEB361	Telecommunications*	IFJ222
EEB371	Electronic Devices*	IFJ222
EEB372	Digital Electronics I*	IFJ222
EEB401	Network Theory II*	IFJ222
EEB471	Electronics*	IFJ222
EEB472	Digital Electronics II*	IFJ222
EEB501	Advanced Measurement and Instrumentation*	IFJ222
EEB520	Control Engineering I*	IFJ222
EEB522	Control Engineering II (T)*	IFJ222
EEB561	Communication Engineering I*	IFJ222
EEB562	Transmission and Propagation*	IFJ222
EEB572	Digital Electronics III*	IFJ222
EEB573	Industrial Electronics*	IFJ222
EEB587	Electronic Systems Engineering Design I*	IFJ222
EEB601	Realtime Computing*	IFJ222
EEB602	Signal Processing*	IFJ222
EEB620	Control Engineering II*	IFJ222
EEB621	Industrial Control I*	IFJ222
EEB623	Industrial Systems I (T)*	IFJ222
EEB661	Communication Engineering II*	IFJ222
EEB662	Microwave and Antenna Techniques (T)*	IFJ222
EEB672	Digital Electronics IV*	IFJ222
EEB701	Seminars and Technical Communication*	IFJ222
EEB722	Industrial Control II*	IFJ222
EEB761	Communication Engineering III*	IFJ222
EEB788	Electronic Systems Engineering Design II*	IFJ222
EEB970	Project (Electronics and Computing)*	IFJ222
EEB887	Electronic Systems Engineering Design III*	IFJ222
EEB888	Electronic Systems Engineering Design IV*	IFJ222
EEB901	Vacation Practice I*	IFJ222
EEB902	Vacation Practice II*	IFJ222

SUBJECT CODE	SUBJECT TITLE	COURSE(S)
EEB903	Vacation Practice III*	IFJ222
EEB931	Industrial Systems II*	IFJ222
EEB961	Communication Techniques*	IFJ222
EEB962	Microwave Systems Engineering*	IFJ222
EEB968	Digital Signal Processing*	IFJ222
EEB971	Applied Electronics*	IFJ222
EEB972	Integrated Electronic Techniques*	IFJ222
EEB973	Microprocessors in Industry*	IFJ222
INB099	English for Academic Purposes	INJ232, ISJ243
INB100	Computing Practice I	IFJ235, INJ232, ISJ243
INB105	Computing Practice IA	INJ232, ISJ243
INB110	Computing Practice IB	INJ232, ISJ243
INB125	Computing Practice IA	IFJ222
INB130	Computing Practice IB	IFJ222
INB150	Computing Practice II	IFJ235, INJ232, ISJ243
INB155	Computing Practice IIA	INJ232, ISJ243
INB160	Computing Practice IIB	INJ232, ISJ243
INB180	Computing Practice IIB	IFJ222
INB200	Computing Practice III	CSJ128, IFJ235, ISJ210, ISJ243
INB205	Computing Practice IIIA	CSJ128, ISJ210, ISJ243
INB210	Computing Practice IIIB	CSJ128, ISJ210, ISJ243
INB225	Computing Practice IIIA	IFJ222
INB250	Computing Practice IV	CSJ128, IFJ235, ISJ210, ISJ243
INB255	Computing Practice IVA	CSJ128, ISJ210, ISJ243
INB260	Computing Practice IVB	CSJ128, ISJ210, ISJ243
INB270	Data Communications	CSJ128, IFJ235, ISJ210, ISJ243
INB275	Computing Practice IVA	IFJ222
INB280	Industrial Training Experience	CSJ128, ISJ210, ISJ243
INB281	Computing Practice IVB	IFJ222
INB300	Project Work	CSJ128, IFJ235, ISJ210
INN300	Minor Project	INN236
INN301	Minor Project	INN236
INN302	Minor Project	INN236
INN303	Minor Project	INN236
INN310	Advanced Data Communications	INN236
INN400	Major Project - Part I	INN236
INN450	Major Project - Part II	INN236
INP270	Data Communications	CSM219
ISB101	Application Systems	IFJ235, INJ232, ISJ243
ISB102	Representation of Information	IFJ222, IFJ235, INJ232, ISJ243
ISB113	Principles of Information Management	ISJ243
ISB201	Information Systems Analysis and Design I	CSJ128, IFJ222, IFJ235, ISJ210, ISJ243
ISB202	Database and Procedural Languages	CSJ128, CSM219, IFJ222, IFJ235, ISJ210
ISB203	Advanced Database	ISJ243
ISB210	Information Systems Analysis and Design II	CSJ128, IFJ222, IFJ235, ISJ210
ISB214	The Information Resource	ISJ243
ISB215	External Sources of Information	ISJ243

SUBJECT CODE	SUBJECT TITLE	COURSE(S)
ISB216	Political and Social Aspects of Information Technology	ISJ243
ISB219	Advanced COBOL	ISJ210
ISB301	Advanced Information Systems	IFJ235, ISJ210, ISJ243
ISB302	Database Management	CSJ128, IFJ235, ISJ210
ISB303	Office Information Systems	CSJ128, ISJ210, ISJ243, ISM204
ISB305	Project	ISJ243
ISB313	Expert Information Systems	IFJ235, ISJ210
ISB314	Information Systems Management	IFJ235, ISJ210, ISJ243, ISM204
ISB316	Information Support Systems	ISJ243
ISB317	Special Topic in Information Management	ISJ243
ISB318	Strategic Information Management	ISJ243
ISB999	Special Topic in Business Computing	ISJ210
ISN100	Information Systems I	INN236
ISN300	Information Systems II	INN236
ISP100	The Computer System	ISM204
ISP101	Data Design and Processing	CSM219, ISM204
ISP200	Systems Analysis and Design	ISM204
ISP201	Data Communications	ISM204
ISP301	Advanced Database	CSM219, ISM204
ISP303	Programming	ISM204
ISP400	Advanced Programming	ISM204
ISP401	Computing Project	ISM204
ISP410	Collection Building and Use I	ISM165
ISP411	Information Storage and Retrieval I	ISM165
ISP412	Information Users and Services I	ISM165
ISP413	Information Agency Management and Services I	ISM165
ISP414	Library Service to Young People	ISM165
ISP415	Basic Media Creativity	ISM165
ISP417	Special Topic - Library Science	ISM165
ISP418	Information and Referral Services	ISM165
ISP419	Government Documents	ISM165
ISP420	Collection Building and Use II	ISM165
ISP421	Information Storage and Retrieval II	ISM165
ISP422	Information Users and Services II	ISM165
ISP423	Information Agency Management and Services II	ISM165
ISP425	Advanced Media Production	ISM165
ISP427	Special Topic - Library Science	ISM165
ISP428	Field Experience	ISM165
ISP429	Information Brokerage	ISM165
ISP430	Library Systems Evaluation	ISM165
ISP998/ 999	Special Topic in Commercial Computing	CSM219, ISM204
LWB101	Introduction to Law*	IFJ235
LWB102	Law of Contract*	IFJ235
LWB103	Torts*	IFJ235
LWB201	Land Law*	IFJ235
LWB202	Criminal Law and Procedure*	IFJ235
LWB203	Constitutional Law*	IFJ235
LWB301	Equity*	IFJ235

SUBJECT CODE	SUBJECT TITLE	COURSE(S)
LWB303	Commercial Law*	IFJ235
LWB304	Conveyancing and Drafting*	IFJ235
LWB305	Jurisprudence*	IFJ235
LWB309	Succession*	IFJ235
LWB310	Administrative Law*	IFJ235
LWB401	Company Law and Partnership*	IFJ235
LWB402	Evidence*	IFJ235
LWB403	Taxation Law*	IFJ235
LWB404	Practice*	IFJ235
LWB405	Solicitor's Trust Accounts*	IFJ235
LWB407	Conflict of Laws*	IFJ235
LWB408	Securities*	IFJ235
LWB409	Professional Conduct*	IFJ235
LWS004	Information Managers and the Law	ISJ243
MAB172	Quantitative Methods IB	IFJ235, INJ232
MAB193	Engineering Mathematics I*	IFJ222
MAB295	Applied Mathematics*	IFJ222
MAB493	Engineering Mathematics II*	IFJ222
MAB893	Engineering Mathematics III*	IFJ222
MAB920	Coding and Encryption Techniques*	ISJ222
MAB894	Engineering Mathematics IV*	IFJ222
MEB770	Industrial Administration and Engineering I*	IFJ222
MEB870	Industrial Administration and Engineering II*	IFJ222
MNB091	Marketing	CSJ128, ISJ210, ISJ243
MNB103	Management I	CSJ128, ISJ210, ISJ243
MNB132	Microeconomic Analysis	ISJ210
MNB181	Australian National Government B	ISJ210
MNB203	Management II	ISJ210
MNB405	Management Science A	ISJ210
MNB418	Applied Cognitive Psychology	ISJ243
MNB591	Economics of Information	ISJ243
PHB131	Engineering Physics I*	IFJ222
PHB430	Engineering Physics IV*	IFJ222

SCHEDULE 2 : INFORMATION TECHNOLOGY SUBJECTS OFFERED IN OTHER QUT COURSES

Schedule 2 provides a listing of those subjects offered in courses administered by other Faculties within QUT and which are controlled and taught by the Faculty of Information Technology. The schedule presents these subjects in alpha-numeric order according to their subject code and indicates the Faculties in which the subjects are offered. The synopses for these subjects appear in the Handbook for the appropriate Faculty.

SUBJECT CODE	SUBJECT TITLE	FACULTY
CSA165	Computing	Engineering
CSA259	Introduction to Computing	Science, Health Science
CSB155	Introduction to Computing A	Science, Health Science
CSB190	Computing	Engineering
CSB259	Laboratory Computing I	Health Science
CSB260	Introduction to Programming	Science
CSB261	Programming	Health Science
CSB262	Computing	Science, Health Science
CSB280	Programming Principles - S	Science
CSB281	Computer Systems I - S	Science, Health Science
CSB283	Scientific Applications	Science
CSB321	Graphics	Science
CSB325	Expert Systems	Science
CSB482	Programming Languages and Structures	Science
CSB490	Software Engineering	Engineering
INB285	Data Communications - S	Science
ISB156	Management Information Systems	Business
ISB180	Introduction to Computing	Built Environment
ISB263	Introduction to Computers and Information Systems	Health Science
ISB282	Representation of Information - S	Science
ISB283	Database and Procedural Languages - S	Science
ISB302	Database Management	Science
ISB382	Microcomputer Applications	Science
ISB392	Computer Systems and Programming	Business, Law
ISB393	Computer Based Information Systems	Engineering
ISB492	Business Systems Design I	Business, Law
ISB493	Business Computer Programming	Science, Business, Health Science
ISB494	Telecommunications and Online Systems	Business
ISB592	Business Systems Design II	Business
ISB593	Computer Systems Management	Business
ISB594	Computer Equipment and Evaluation	Business
ISB691	Database and Business Systems	Business
ISB694	Input/Output Subsystems	Business
ISB998	Special Topic in Business Computing	Business
ISN156	Management Information Systems	Business
ISP100	The Computer System	Business, Health Science
ISP380	Quality Information Systems	Science

SCHEDULE 3: NEW SUBJECTS

The following subjects appear in the Handbook for the first time; they are listed in alpha-numeric order by subject code.

SUBJECT CODE	SUBJECT TITLE
CSP112	Software Principles
CSP214	Programming Languages and Structures
INB099	English for Academic Purposes
ISB113	Principles of Information Management
ISB203	Advanced Database
ISB214	The Information Resource
ISB215	External Sources of Information
ISB216	Political and Social Aspects of Information Technology
ISB305	Project
ISB316	Information Support Systems
ISB317	Special Topic in Information Management
ISB318	Strategic Information Management
LWS004	Information Managers and the Law
MNB418	Applied Cognitive Psychology
MNB591	Economics of Information

SCHEDULE 4: CHANGES IN SUBJECT CODES

Schedule 3 provides a listing of subjects which have been assigned a different code in 1989.

PRIOR CODE	TITLE	NEW CODE	TITLE
ISN310	Advanced Data Communications	INN310	Advanced Data Communications
ISP698/ ISB698	Introduction to Computing	ISB180	Introduction to Computing
FOR STUDENTS IN COURSE IFJ222 ONLY:			
INB105	Computing Practice IA	INB125	Computing Practice IA
INB110	Computing Practice IB	INB130	Computing Practice IB
INB160	Computing Practice IIB	INB180	Computing Practice IIB
INB205	Computing Practice IIIA	INB225	Computing Practice IIIA
INB255	Computing Practice IVA	INB275	Computing Practice IVA
INB260	Computing Practice IVB	INB281	Computing Practice IVB

Prizes and Awards

10

PRIZES AND AWARDS

Australian Computer Society Incorporated Prizes

Awarded annually to:

(i) the most outstanding graduate in the Bachelor of Applied Science (Computing); and
(ii) the most outstanding graduate in the Bachelor of Business (Computing).

BHA Computer Prize

Awarded annually to the Bachelor of Applied Science (Computing) student with the most outstanding performance in the subjects 'CSB201 Computer Systems II' and 'CSB311 Advanced Computer Architecture'.

Britannica Reference Award

Awarded to the student completing the Graduate Diploma in Library Science who takes the subjects 'Information Users and Services I and II' for the first time, and achieves the highest aggregate marks in those subjects.

Control Data Prize

Awarded annually to the most outstanding student from the Graduate Diploma in Computing Science course.

Data #3 Professional Services Pty Ltd Prize

Awarded to the most outstanding student in the Bachelor of Business (Computing) course each year.

DMR Datec Prizes

Awarded annually to:

(i) the most outstanding graduate of the year from the Bachelor of Applied Science (Computing) course;
(ii) the student enrolled in the Bachelor of Applied Science (Computing) course, and demonstrating the greatest proficiency in the subject 'Project Work'.

IBM Prizes for Excellence

Donated annually by IBM Australia Ltd and awarded:

(i) for excellence shown by a student of the Bachelor of Engineering/ Bachelor of Applied Science (Electronic Systems and Computing) course; and
(ii) for excellence shown by a student of the Graduate Diploma in Commercial Computing' course.

Library Association of Australia, Queensland Branch Prize

Awarded to the part-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

Library Board of Queensland Merit Award

Awarded to the full-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

MIM Holdings Limited Prize

Awarded annually to the most outstanding student in the second year of the full-time course (or the part-time equivalent) leading to the Bachelor of Applied Science (Computing).

NCR Australia Pty. Ltd. Prize

Awarded to the student enrolled in a course leading to the degree Bachelor of Business, who, taking the subject ISB694 Input/Output Subsystems for the first time, obtains the highest pass in the subject at the semester examinations.

Owen J. Wordsworth Memorial Scholarships

To be eligible for a scholarship, the applicant must be accepted as a full-time student in a masters degree program at the Queensland Institute of Technology. The basis for selection may be referred to in the Institute Handbook.

Queensland Online Users Group/ORBIT Prizes

Awarded to the two students who perform best in the On-line Information Retrieval subject within the Graduate Diploma in Library Science course.

Awards 'With Distinction'

Awards 'with Distinction' were introduced in 1982 and are granted to the following courses within the Faculty of Information Technology: Bachelor of Applied Science (Computing), Bachelor of Business (Computing), Bachelor of Business (Information Management), Bachelor of Business (Computing)/Bachelor of Laws, Bachelor of Engineering /Bachelor of Applied Science (Electronic Systems and Computing), Graduate Diploma in Commercial Computing, Graduate Diploma in Computing Science and Graduate Diploma in Library Science.

Queensland Institute of Technology 'Institute Medal'

An Institute Medal may be awarded annually for distinguished academic performance. The basis for selection may be referred to in the Institute Handbook.

Synopses

11

SYNOPSES

This section provides synopses of the subjects detailed in this Handbook. The synopses are presented in alphabetical order by subject title and provide the following information:

- subject code;
- subject title;
- class contact in hours per week in brackets;
- pre-requisite and/or co-requisite subjects where applicable;
- objectives of the subject; and
- brief summary of the contents of the subject.

It should be noted that the method of assessment to be used in the case of each subject will be approved by the Information Technology Academic Board and will comprise one or more of -

- written and/or oral tests;
- general assignments;
- laboratory exercises and reports;
- projects, etc.

Precise details of the assessment procedures and required textbooks for a particular subject will be made available to students at the commencement of lectures.

ACB181 Accounting Information Systems I (3)

Objective:
To examine the nature and role of general accounting systems found in organisations, namely the Financial Accounting Information System (FAIS) and the Managerial Accounting Information System (MAIS).

Synopsis:
The role of Accounting Information Systems. Financial statements and the accounting cycle. The determination of profit and financial status. The management process: planning and control systems in an organisation. Cost volume profit analysis and cost accounting systems.

ACP111 Accounting Principles I (3)

Objective:
To introduce students to the discipline of analysing business systems.

Synopsis:
Nature and function of accounting, basic financial accounting -the accounting process. Understanding annual reports - balance sheet, income statements. Analysis of reports - use of ratios. Budgeting -the basis for planning and control. The nature of costs. Cost/volume/profit analysis. Variations of cost behaviour patterns. Flexible budgeting - standards for control. Overhead application. Accounting information for short-term decision making. Introduction to current cost accounting.

ISB219 Advanced Cobol (3)

Pre-requisite:
ISB202 Database and Procedural Languages

Objectives:
Provides students with the opportunity of gaining greater proficiency in writing complex commercial programs in the COBOL language; major programming project will be implemented to facilitate the above.

CSB311 Advanced Computer Architectures (3)

Pre-requisite:
CSB201 Computer Systems II

Objectives:
Continuation of the material introduced in the subjects CSB101 Computer Systems I and CSB201 Computer Systems II; provides an understanding of the organisation of contemporary computer systems, and the variety of different structures which may be used for specific tasks. The style of presentation is based on a mixture of theory with case studies based on existing machines of practical or theoretical importance.

INN310 Advanced Data Communications (3)

Undergraduate Pre-requisite:
INB270 Data Communications (or equivalent)

Objective:
To treat advanced material in data communications, and complement the data and computer security subjects.

Synopsis:
Data communications network design and management (techniques and case studies); performance modelling of communications networks; comparative evaluations of data communications products and services; data communications software design and implementation; provision of integrated communications services (voice, data, video, etc.); network security; communications industry policy (e.g. deregulation vs. regulation).

ISB203 Advanced Database (3)
ISP301 Advanced Database (4)

Pre-requisite:
ISP101 Data Design and Processing OR
ISB102 Representation of Information

Objective:
On completion of this subject, students should be able to accomplish the following: discuss the functions of a DBMS; describe the relational and network approaches to database construction; describe one DBMS in detail; design a database to support the outputs required of some information system; distinguish between databases and knowledge bases; and describe the features expected of a 4GL and how they facilitate the use of prototyping.

Synopsis:
The relational model; the CODASYL model; recovery; integrity; concurrency; security; the use of a specific DBMS; the implementation of a data model using that DBMS; the relationship between a DBMS and 4GL software.

CSN350 Advanced Graphics I (3)

Undergraduate Pre-requisite:
CSB321 Graphics (or equivalent)

Objectives:
To provide an advanced level extension of the material in the undergraduate curriculum; particular emphasis is placed on the use of facilities provided by existing graphics systems.

Synopsis:
Standards; further algorithms for clipping, line-drawing, area fill; hidden line and

surface removal - classical techniques; basic lighting models and shading; shadow, texture, reflection, composition; anti-aliasing; modelling - hierarchy, instancing, structured display files, non-polygonal models; raster techniques; animation; colour -models, perception, techniques; surface modelling - splines with extra control; user interface design; applications.

CSN360 Advanced Graphics II (3)

Pre-requisite:
CSN350 Advanced Graphics I

Objectives:
Provides coverage of specialised areas of computer graphics.

Synopsis:
Topics will be agreed between staff and students; they may be drawn from, but need not be restricted to, those listed below.

(i) Hardware - details of technology; special devices
(ii) Graphics - related standards - CAD and videotext
(iii) Projections - comparison of visual effect and application
(iv) Sophisticated lighting models; motion; camera models
(v) Spline techniques - implementation, alternative forms
(vi) Hidden line and surface removal - specialised algorithms
(vii) High performance architectures
(viii) Raster transformations
(ix) Image processing
(x) Computational geometry

ISB301 Advanced Information Systems (3)

Pre-requisite:
ISB201 Information Systems Analysis and Design I

Objectives:
Introduces students to the concept and practice of Decision Support Systems (DSS); emphasises the development of Decision Support Systems through case studies as well as focussing on the importance of the system user.

ISP425 Advanced Media Production (3)

Pre-requisite:
ISP415 Basic Media Creativity

Synopsis:
Library 'in house' media productions will be examined and evaluated: such tasks as, designing individualised learning materials and learning packages, and the planning and design of library public relations materials; production of sample materials for library use; emphasis on the production of audio-visual materials and library displays.

ISP400 Advanced Programming (4)

Pre-requisite:
ISP303 Programming

Objective:
To examine and study the implementation of business information systems in COBOL.

Synopsis:
Review of programming principles. Fundamentals of COBOL. Commercial data processing systems. Data structures, serial and random file processing. Extensive practical projects in COBOL.

MNB418 Applied Cognitive Psychology

Pre-requisite:
MNB103 Management I

Provides an understanding of the processes by which information is perceived, stored and recalled and how it is used in problem solving and decision making.

Synopsis:
Introduction to cognitive psychology; perception processes in cognition; memory processes in cognition; thinking processes in cognition; includes problem-solving and decision making; application of cognitive psychology. Artificial intelligence, ergonomics and job design also included.

ISB101 Application Systems (3)

Objectives:
(i) Describes the generalised applications needed to support a business
(ii) Encourages an awareness of the need for custom designed systems
(iii) Encourages awareness of career prospects in the information technology industry in Australia
(iv) Introduces current articles and journals relevant to the course.

Synopsis:
Examines the way businesses operate and the nature of business application systems; also examines the features of some non-business applications.

CSB324 Artificial Intelligence (3)

Pre-requisite:
CSB210 Foundations of Computing II OR
CSP214 Programming Languages and Structures

Objectives:
Builds on the introductory material in Artificial Intelligence introduced in CSB210 Foundations of Computing II; surveys the field of artificial intelligence including programming in logic, man-machine interfaces, robotics, automated reasoning, natural language understanding and search techniques.

CSN220 Artificial Intelligence (3)

Undergraduate Pre-requisite:
An undergraduate level artificial intelligence or expert systems subject

Objectives:
To deal with the increasingly important role of artificial intelligence in the computing industry, and to review aspects of artificial intelligence which have given rise to commercial products as well as the background research efforts which promise to have major impact on the use of computers in the near future.

Synopsis:
Knowledge engineering; functional languages, LISP; logic languages, PROLOG; natural language processing; expert systems; commercial and industrial applications.

MNB181 Australian National Government B (3)

Objectives:
To provide students with an understanding of the nature of the Australian Political System and the major institutions and procedures that constitute the system.

ISP415 Basic Media Creativity (3)

Synopsis:
Techniques of production for audio-visual material in libraries and instructional programs according to individual or small audience use; basic design and theories of audiovisual communication as background for the effective production and critical evaluation of audiovisual materials. This subject will provide a variety of experiences in simple graphic, slide-tape production, audio and video recording and copy work.

ISP410 Collection Building and Use I (3)
ISP420 Collection Building and Use II (3)

Pre-requisite:
ISP410 Collection Building and Use I (for ISP420)

Synopsis:
User need as the basis for the selection of print and non-print and computer software resources; the characteristics of each medium and its associated problems of censorship and copyright; acquisitions policies and processes involving such areas as the supply trades (book and micro trades); evaluating collections, weeding and the steady-state library; the concept of bibliometrics. Other topics to be included are: the marriage of computer, video and communications technology and the implications for the delivery of information; storage, security and circulation systems; and the physical preservation of resources.

CSN110 Compiler Construction (3)

Undergraduate Pre-requisite:
CSB212 Languages and Language Processing (or equivalent)

Synopsis:
Deals with the organisation and structure of language translators and compilers; some emphasis is placed on those parts of these software tools which are amenable to formal analysis; the material extends undergraduate studies in algorithm design and in the semantics of formal languages; special attention will be paid to techniques which are applicable in the implementation of special purpose languages such as database query languages and production systems.

CSN340 Compiler Laboratory (3)

Pre-requisite:
CSN110 Compiler Construction

Objectives:
To treat in-depth, topics of contemporary translator construction in a practical setting; emphasis will be placed on code generation methods for advanced computer architectures.

Synopsis:
Code generation for RISC architectures; direct compilation to microcode; direct execution architectures; incremental attribute evaluation; advanced topics in parser generation; compiler generation by partial evaluation; compiler validation.

CSN200 Computer Security (3)

Objective:
To ensure that students recognise the requirement to design, implement and manage facilities in a manner consistent with an overall organisational security policy.

Synopsis:
Development of a security plan; risk analysis; access control; cryptography; network encryption; key management; database security.

ACB695 Computer Security and Audit (3)

Pre-requisite or Concurrent:
ISB210 Information Systems Analysis and Design II

Objective:
To consider the security, auditing and control of computer systems.

Synopsis:
Computers - crime and fire; security measures - computer vulnerability; physical security - control of access; security of computer personnel; surveillance of people and property. Computer security and risk management, role of the accountant. Controlling computerised applications; organisation considerations, data entry, standards. Auditing computerised applications; internal control, use of computers as audit tool. Improving EDP effectiveness; controlling application selection and development, controlling computer performance and costs. Practical computer operation.

CSB101 Computer Systems I (3)

Objectives:
To provide an understanding of
(i) the physical organisation of a computer system
(ii) the control and flow of information in a computer system
(iii) the representation of data in a computer system

Synopsis:
Boolean algebra; state concepts; data representation; processor organisation; memory organisation; input/output devices; machine language; assembly language.

CSB201 Computer Systems II (3)

Pre-requisite:
CSB101 Computer Systems I

Objectives and Synopsis:
Continuation of the material introduced in CSB101 Computer Systems I; intended to provide students with an understanding of the organisation of simple computer systems, and the way in which the hardware provides the basic facilities of the virtual machine. Students are introduced to the techniques involved in the programming of input-output operations, and the interrupt structure which underlies operating system organisation in uniprocessor systems.

INB100 Computing Practice I (3)
INB105 Computing Practice IA (1½)
INB110 Computing Practice IB (1½)
INB125 Computing Practice IA (1½)
INB130 Computing Practice IB (1½)
INB150 Computing Practice II (3)
INB155 Computing Practice IIA (1½)
INB160 Computing Practice IIB (1½)
INB180 Computing Practice IIB (1½)
INB200 Computing Practice III (3)
INB205 Computing Practice IIIA (1½)
INB210 Computing Practice IIIB (1½)
INB225 Computing Practice IIIA (1½)
INB250 Computing Practice IV (3)
INB255 Computing Practice IVA (1½)
INB260 Computing Practice IVB (1½)
INB275 Computing Practice IVA (1½)
INB281 Computing Practice IVB (1½)

Co-requisites:
Core topics in appropriate semester.

Objectives:
Designed to coordinate the practical aspects of the lecture material presented each semester so that students both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The importance of all aspects of personal communication will be emphasised throughout and students will also be strongly encouraged to perceive the social implications of computing activities and systems.

ISP401 Computing Project (4)

Pre-requisite:
Completion of six subjects of the Graduate Diploma in Commercial Computing

Objective:
(i) To enable the student to explore an individual area of computing interest;
(ii) To familiarise students with the conduct of computing projects.

Synopsis:
A major project allocated to or proposed by the student in any of the specialist areas (covered or otherwise) in the course, e.g., a development project, software implementation, or the solution to a particular problem in computer business applications. During the inter-semester break of the second year of the course, a report indicating the scope of the project must be submitted to the project supervisor.

ISB202 Database and Procedural Languages (3)

Co-requisite:
ISP101 Data Design and Processing OR

Pre-requisite:
CSB110 Programming Principles; OR
ISP101 Data Design and Processing

Objectives:
(i) To familiarise students with the implementation of information systems;
(ii) To develop knowledge of the COBOL language;
(iii) To develop knowledge of the implementation of a Relational Database.

Synopsis:
Introduces the fundamentals and syntax of a procedural computer programming language (e.g. COBOL) and examines its use in the implementation of information systems (and, in particular, database systems). Apart from developing techniques in commercial programming, the subject provides an appreciation of the advantages and disadvantages of a database approach.

ISB302 Database Management (3)

Pre-requisite:
ISB202 Database and Procedural Languages

Objectives:
Focuses on the practical issues associated with the implementation and management of the database designs developed in previous subjects; specifically addresses issues such as the performance and tuning of databases, the management of the data dictionary as well as control issues such as integrity, concurrency, backup and recovery; provides an appreciation of some of the more significant commercial implementations of database architectures.

INB270 Data Communications (3)

Pre-requisite:
CSB101 Computer Systems I

Synopsis:
Makes use of the International Standards Organisation (ISO) seven layer Open Systems Interconnection (OSI) reference model to enable students to develop an understanding of the basic theory of data communications; provides a foundation for the subsequent discussion of the implementation of various types of information systems (e.g. distributed processing systems); intended to provide an appreciation of the implementation of data communications hardware and software in specific environments and to introduce the concepts of the design and management of data communications networks.

INP270 Data Communications (3)
ISP201 Data Communications (3)

Co-requisite:
ISP100 The Computer System OR

Pre-requisite:
CSP112 Software Principles OR
ISP100 The Computer System

Objective:
To describe the role of data communications in a modern computing environment and to examine in some detail aspects of the design, implementation and management of data communications networks.

Synopsis:
Transaction processing system; distributed processing systems; the International Standards Organisation Reference Model for open systems interconnection; modes of data transmission; communications equipment; data communications network design and management; network architectures (SNA); local area networks; telecom facilities.

ISP101 Data Design and Processing (4)

Co-requisite:
ISP100 The Computer System OR
CSP112 Software Principles

Objective:
To introduce the theory of data modelling and the techniques associated with development of database solutions for a variety of information problems. In conjunction with the above, to familiarise students with modern post-procedural approaches to database retrieval and manipulation.

Synopsis:
Information as an organisational resource; data decomposition and data modelling; methods of storage, access and retrieval; implementation using post-procedural languages.

CSB323 Data Security (3)

Pre-requisite:
INB270 Data Communications OR
INP270 Data Communications

Objectives:
To build upon the data communications and computer systems material and provide an insight into an area of rapidly expanding career opportunities.

CSN210 Distributed Systems (3)

Undergraduate Pre-requisite:
CSB301 Operating Systems (or equivalent) AND
CSB311 Advanced Computer Architectures (or equivalent)

Objective:
To provide a thorough understanding of the rationale for distributed computer systems, their domain of application and the principles of distributed control underlying their construction.

Synopsis:
Motivation, rationale and objectives of distributed systems; SISD, SIMD, MISD, MIMD systems; Von Neumann, systolic and data flow architectures; distributed control, event ordering; inter-process communication; distributed filestores; languages for parallel and distributed processing.

MNB591 Economics of Information (3)

Objectives:
Examines the nature of the commodity, information; factors determining the demand, cost and pricing of information; market and non-market allocation of resources to the production of information; the structure of the information industry, and government economic policy towards that industry.

Synopsis:
Information as a commodity; the demand for information; the economics of the production of information; the costs of information; the costing: pricing and charging out of information within organisations; the market supply of information; information technology and the supply curve; the structure of the information industry; information and industry concentration; public good characteristics of information; goverment intervention and economic impacts in the information industry.

INB099 English for Academic Pruposes (3)

Synopsis:
Written and oral English for tertiary purposes. Extension of structure and grammatical knowledge as well as vocabulary.

ISB313 Expert Information Systems (3)

Pre-requisite:
ISB301 Advanced Information Systems

Objectives:
Examines the role of expert systems in the commercial area and their impact on business information systems; provides an understanding of how expert systems could be used in the development of advanced business information systems; gives some practical experience in developing and implementing information systems containing such techniques; includes discussion on social implications of expert systems.

CSB325 Expert Systems (3)

Pre-requisite:
CSB200 Foundations of Computing I OR
CSP214 Programming Languages and Structures OR
CSB210 Foundations of Computing II

Objectives:
Introduces students to expert systems and their application to a wide range of problem solving in areas such as applied science, industry and commerce. Students will gain a detailed understanding of some of the successful existing systems and will design an expert system as part of the practical work in the subject.

ISB215 External Sources of Information (3)

Objectives:
Encompasses the scanning of the environment using various information sources, technologies, avenues and methodologies; concentrates on acquisition of practical skills including online searching.

Synopsis:
Definition of external information sources (personal and recorded); types of information provided by Government, industrial, academic and business sources; the publishing industries; online searching techniques; storage and retrieval media; computer conferencing.

ISP428 Field Experience (-)

Synopsis:
Comprises a total of six weeks' full-time individualised work experience in a library or other information agency approved by the Head of School. Field experience may normally be divided into no more than two separate periods of three weeks apiece and **must** be arranged through the School of Information Systems.

ACB551 Financial Management I (3)

Pre-requisites:
ACB513 Managerial Accounting I AND
MAB172 Quantitative Methods IB

Objective:
To introduce students to the problems and issues involved in business finance.

Synopsis:
The goals and functions of finance. Australian capital markets -short and long term sources of funds. Implications of the efficient market hypothesis. The time value of money, basic valuation principles, interest rates and the costs of capital.

The one period investment model, the firm investment decision and techniques of analysis, capital budgeting. Introduction to the concept of risk. Capital investment decisions under conditions of uncertainty. Portfolio theory and the capital asset pricing model.

CSN320 Formal Secure Systems (3)

Pre-requisite:
CSN100 Theory of Computing I AND
CSN200 Computer Security

Objectives:
To explore the formal mechanisms required in the design of secure systems: commences with a study of formal models of secure systems, e.g. Bell La Padula model and then explore the relationship between formal methods of computer science and the design of formally verifiable computer systems.

Synopsis:
Introduction to formal design of secure systems; advanced cryptography and key management; formal secure models; trusted system criteria; formal design methodologies; hardware verification.

CSB200 Foundations of Computing I (3)

Pre-requisite:
CSB110 Programming Principles

Objectives:
Provides a grounding in the scientific basis of computing, and the methods and tools of computer science; an understanding of various kinds of abstraction; data abstraction as a technique for dealing with complex data inter-relationships, and procedural abstraction as a way of expressing complex operations on such structures.

Synopsis:
The concept of the abstract data type (ADT); important examples of ADTs and associated algorithms; introduction to the analysis of algorithmic complexity, and proofs of correctness.

CSB210 Foundations of Computing II (3)

Pre-requisite:
CSB200 Foundations of Computing I OR
CSP402 Programming Languages and Structures

Objectives:
Special emphasis is given to the analysis of algorithms, the various styles of programming languages and the abstractions which they support.

Synopsis:
Languages with notable features designed for special computer classes of problems; searching and sorting algorithms; recursion and iteration; algorithms and then space and time requirements.

ISP419 Government Documents (3)

Syopsis:
Government documents as the record of government intentions and activities; the concept of government documents and their importance as sources of information; the conditions of access to government information with particular reference to Freedom of Information legislation and Crown Copyright; the origins and distribution of government documents from all levels of government,

including international organisations; the treatment of government documents in libraries with regard to their acquisition, organisation and usefulness as information sources.

CSB321 Graphics (3)

Pre-requisites:
CSB210 Foundations of Computing II AND
CSB212 Languages and Language Processing OR
CSP214 Programming Languages and Structures AND
CSP211 Systems Architecture and Operating Systems

Objectives:
To acquaint students with the nature of computer graphics hardware and software; to provide a thorough grounding in the design and implementation of computer graphics software so as to enable students to implement graphic systems in their particular application areas.

INB280 Industrial Training Experience (-)

Pre-requisite:
Full-time students - completion of two years of the full-time course

Objectives:
The purpose of the industrial training period is to provide students with experience of a real world environment prior to the study of the more advanced aspects of the course. This experience will both enable the student to place the concepts learnt in the first two years in context and provide an experience that will enhance the benefits obtained from final year subjects. The industrial training period will, necessarily, involve a period of re-orientation and on-the-job training but the student will be expected to apply study skills to the acquisition of the necessary knowledge and, in general, the employer will not be expected to provide formal training. Part-time students may apply for credit towards this option on the basis of their employment.

ISP413 Information Agency Management and Services I (3)

Synopsis:
An introduction to the principles and concepts applicable to the management and services of information agencies; emphasis on information agencies as integrated systems and their relationships to their environments; the roles of the major types of library and information agencies; managerial and organisational functions; evaluation of specific work situations.

ISP423 Information Agency Management and Services II (3)

Pre-requisite:
ISP413 Information Agency Management and Services I

Synopsis:
An introduction to automated library management systems, both mainframe and micro-computer based, including: circulation; cataloguing, acquisitions and security systems as well as integrated systems and the application of LANs, the steps involved in installing a new computer-based system and the application of general purpose software to library management.

ISP418 Information and Referral Services (3)

Synopsis:
An introduction to community information services offered in libraries and by other agencies; means of identifying the information needs of individuals in their

private lives; locating, storing, retrieving and repackaging this information; barriers to communicating information; alternative modes of information delivery; information networks; training for community information services; ethical and professional dimensions of information and referral services.

ISP429 Information Brokerage (3)

Objectives:
To provide an understanding of:
(i) the place of the Information Broker in the information community
(ii) the means by which information is disseminated
(iii) the scope and limitations of information resources, both print and electronic
(iv) the economic basis of information provision
(v) the concepts involved in the marketing of information services

Synopsis:
The services provided by information brokers and the ways in which they differ from the services traditionally provided by librarians; the economics of information provision and the costing of information services, together with the marketing of information services; the importance of re-packaging information, for example, as abstracts, summaries or state of the art reviews; the evaluation and selection of databases to satisfy client requests; developments in information technology and their impact on the information marketplace.

LWS004 Information Managers and the Law (3)

Objectives:
To introduce those aspects of the law most likely to affect the work of information managers; emphasises the legal responsibilities of information managers, particularly in the areas of intellectual property, hardware and software contracts and data storage.

Synopsis:
The impact of computers on the law; legal databases; computers and the law of contract; intellectual property; copyright, patents, trade secrets, confidentiality; computers and the law of evidence; computer records and the companies code; computers and taxation; computers and criminal law; duty of care; legal liability; legal implications of data storage; privacy, freedom of information, transborder data flows.

ISP411 Information Storage and Retrieval I (3)
ISP421 Information Storage and Retrieval II (3)

Pre-requisite:
ISP411 Information Storage and Retrieval I (for ISP421)

Objectives:
Theories and principles of information storage and retrieval as applied to library and information resources; theories and principles in their historical, present day and possible future applications as they relate to information storage and retrieval systems; manual and automated systems and their evaluation. Specific topics will include: description, vocabulary control, pre and post co-ordinate indexing, classification, subject analysis.

ISB316 Information Support Systems (3)

Pre-requisite:
ISB203 Advanced Database

Objectives:
Examines the computer data base environment and the organisational super-

structure around it as one coherent unit; provides an introduction to issues varying from planning and administering the information centre to understanding the politics and mechanics of information centre implementation and its interaction with the organisation.

Synopsis:
Database management: co-ordination, maintenance, charge control, budgeting, the database administrator function; the information centre and end-use systems, decentralisation versus centralisation; security, privacy and auditability; executive information systems; computer aided database management (data dictionaries, data modelling, project management packages etc.); impact of the various levels of management on the information centre and vice versa; development of an enterprise model, Corporate Entity analysis; strategic planning procedures; implementation considerations (application pressure, politics, conversion).

ISN100 Information Systems I (3)

Undergraduate Pre-requisite:
ISB201 Information Systems Analysis and Design I (or equivalent)

Objectives:
To deal with advances in information system development approaches and techniques; to examine the theoretical basis underlying current approaches to decision support; to focus on the impact on information systems development of increased user involvement.

Synopsis:
Decision processes; adaptive models for decision support; design considerations for centralised and decentralised decision making; critical evaluation of development methods and commercial methodology packages; automated development tools; participative analysis and design methodologies; end-user oriented development tools and strategies; role of the information systems professional in end-user development.

ISN300 Information Systems II (3)

Pre-requisite:
ISN100 Information Systems I

Objectives:
To provide an advanced treatment of contemporary issues of information system development; to deal particularly with the issues of development of corporate information systems.

Synopsis:
The Information Systems Master Development Plan; development of an Enterprise Model; integration of DP, Office Automation and Data Communications; the role of the Information Centre; the social and legal environment; the Information Systems Manager as change agent; contemporary issues in DSS; contemporary issues in information systems methodologies; contemporary issues in information systems management.

ISB201 Information Systems Analysis and Design I (3)

Pre-requisites:
CSB101 Computer Systems I; and
ISB102 Representation of Information

Objectives:
To develop:
(i) an understanding of the work of a commercial systems analyst and the

nature of a systems project
(ii) an awareness of the value of a sound methodology of Systems Analysis and Design
(iii) competence in the theory and practice of such a methodology
(iv) student interest in the area of commercial systems analysis

Synopsis:
The methodology and techniques of systems analysis and design.

ISB210 Information Systems Analysis and Design II (3)

Pre-requisite:
ISB201 Information Systems Analysis and Design I

Objectives:
Extends coverage of techniques of analysis and design; aims to further develop competency in techniques of information systems.

Synopsis:
A complete method for developing an Information System, from initial analysis of the problem through to a working computer system; emphasis is given to the practical application of the techniques, using a wide range of real life problems.

ISB314 Information Systems Management (3)

Pre-requisite:
Completion of two-thirds of either the Bachelor of Business (Computing) or Bachelor of Business (Information Management) course OR
Completion of three-quarters of the Graduate Diploma in Commercial Computing

Objectives:
Examines the tasks of EDP managers in a data processing installation; presents an overview of computer systems offered by a variety of manufacturers.

ISP412 Information Users and Services I (3)

Synopsis:
Surveys of user needs as the basis for library and information services: surveys; the findings of user studies conducted in Australia and abroad; the reference and readers' advisory service and its relationship with other departments within the library and with other information agencies; referral service and the librarian's responsibility; emphasis on communication and reference theory, including interpersonal communication and the reference interview; standard and alternative forms of reference and information service as expressed not only in traditional reference resources and services, but also in the development of new information resources.

ISP422 Information Users and Services II (3)

Pre-requisite:
ISP412 Information Users and Services I

Synopsis:
Design, construction and use of databases; comparison of commercially produced DBMS; structure of the database industry; types of databases by form: bibliographic, numeric, full-text; and by content: business, scientific and social science; protocols for searching at least one major vendor's databases; search strategies; factors governing selection and configuration of communications software; databases on CD-ROM; packages of search outputs; and current issues and trends in the use of bibliographic databases.

CSB100 Introduction to Computer Science (3)

Objectives:
Forms the basis of the major computing topics to be covered in later subjects.

Synopsis:
Provides a disciplined and structured approach to algorithm design; introduces a range of problem solving methods and a variety of programming languages which can be used to process information in a computer.

CSB212 Languages and Language Processing (3)

Pre-requisite:
CSB200 Foundations of Computing I OR
CSP214 Programming Languages and Structures

Objectives:
Introduces the theory of language recognisers and automata and the practicalities of language processing.

Synopsis:
An introduction to the theory and practice of language processing; the design and recognition of small languages for command processors and other interactive programs; advanced data structures and algorithm design.

ISP414 Library Service to Young People (3)

Objective:
To introduce students to the most important aspects of library service to young people.

Synopsis:
The provision and delivery of library service to young people; the evolution of literature for children and young adults with particular emphasis on the effects of social, political and religious movements on its purposes, form and content; the works of the major authors in Europe, North America and Australia; the development of library services to young people in both schools and public libraries; the importance of literary awards and the criteria for selection of resources for young people; planning and carrying out programs to promote reading, including the various techniques for effective story-telling; planning and delivering services appropriate to young adults.

ISP430 Library Systems Evaluation (3)

Pre-requisite:
ISP413 Information Agency Management and Services I

Synopsis:
The theory and techniques for evaluating library systems; emphasis on the application of library measurement to the design and implementation of library systems as well as study and assessment of published literature relating to the field.

MNB103 Management I (3)

Objective:
To introduce business computing students to basic management concepts and practices as well as human factors (individual and group) and their effects on managing.

Synopsis:
The effects of people's perceptions in organisations, building productive work

groups, effective group decision making, establishing an organisational mission and objectives, types of plans and the system of organisation, authority, responsibility, and accountability, effective use of line and staff, job design negotiation skills.

MNB203 Management II (3)

Pre-requisite:
MNB103 Management I

Objective:
An extension of MNB103 Management I

Synopsis:
Effective delegation, organisational centralisation and decentralisation, the informal organisation, using committees effectively, practical guidelines to motivation, effective leadership, managing change, building effective management control systems, human reactions to controlling, total quality control; organisational culture; occupational health and safety.

MNB405 Management Science A (3)

Pre-requisite:
MAB172 Quantitative Methods IB

Objective:
To introduce some of the most widely used quantitative decision tools which are utilised by modern management; emphasis is on application rather than derivation.

Synopsis:
Numerous practical examples in the accounting, marketing, economics and management areas; use of user friendly IBM PC software called Quantitative Systems for Business containing the most popular problem solving algorithms used by practitioners; linear programming, PERT, CPM, inventory theory, decision theory and forecasting.

ACB513 Managerial Accounting I (6)

Pre-requisite:
ACB181 Accounting Information Systems I

Objective:
To introduce students to the techniques, concepts and issues of managerial accounting, with predominant emphasis on cost accounting.

Synopsis:
The nature of managerial accounting and the role of the managerial accountant. Cost concepts, terminology, the cost accounting cycle - predominant emphasis on manufacturing firms. Budgeting and profit planning. Materials, other inventory, labour and factory overheads planning, costing and control. Cost accumulation via historic/standard job and process costing for the manufacture of single and multiple products. Comparison of absorption with direct costing. Introduction to manufacturing costs variance analysis under standard costing.

MNB091 Marketing (3)

Objective:
To introduce the concepts of marketing as they relate to the computing field.

Synopsis:
Involves a broad study of the marketing concept, product planning, pricing, promotion, distribution, marketing systems, marketing research, the sales function, sales forecasting and the role of management in these areas.

MNB132 Microeconomic Analysis (3)

Objective:
To examine how managers make decisions in firms in the Australian economy.

Synopsis:
The role of consumers and firms in various markets; production and market strategies for managers in different types of firms; constraints on manager's decisions and other contemporary issues in Australian microeconomics.

INN400 Major Project - Part 1 (3)

Pre-requisite:
Completion of eight subjects of the Master of Applied Science (Computing) course.

Objective:
To allow students to pursue a specialised topic in greater depth than is possible in a single semester; this subject comprises the first semester of a two semester subject.

Synopsis:
Topics are to be decided by agreement between the student and a Faculty member acting as supervisor.

INN450 Major Project - Part II (3)

Pre-requisite:
INN400 Major Project - Part I

Synopsis:
Forms the second half of the major project component of the Master of Applied Science (Computing) course, and is a continuation of the same topic commenced in INN400.

INN300 Minor Project (3)
INN301 Minor Project (3)
INN302 Minor Project (3)
INN303 Minor Project (3)

Objective:
To offer a number of minor projects so that students can pursue specialised areas of interest, or to broaden their knowledge in areas of relevance to their employment.

Synopsis:
Topics are to be decided by agreement between the student and a Faculty staff member acting as supervisor.

CSN330 Natural Language Processing (3)

Undergraduate Pre-requisite:
An introductory subject in natural language processing.

Objective:
To treat an important specialisation within the field of artificial intelligence and its applications.

Synopsis:
Advanced linguistic analysis; representation, acquisition and retrieval of languages using conceptual analysis; conceptual graphs, reasoning and computation; language, knowledge engineering (limits of conceptualisation); natural language information systems vs. 'traditional' AI natural language processes.

ISB303 Office Information Systems (3)

Pre-requisite:
INB270 Data Communications OR
ISP201 Data Communications OR
INP270 Data Communications AND
ISP101 Data Design and Processing

Objectives:
Examines the development and implementation of information systems in the office context; includes an assessment of the computer hardware, software and telecommunications products available to support the automated office; extends competence in the design and management of data communications networks; examines techniques and systems contributing to automation of the modern office.

CSB301 Operating Systems (3)

Pre-requisite:
CSB201 Computer Systems II

Objectives:
Provides an understanding of the structure of operating systems and real-time software; examines the process and resource management functions of such software and their realisation in terms of a hierarchy of abstract machines, each of which depends on the set of facilities provided by the abstract machine next down the hierarchy in order to implement further facilities; study of the hardware -software interface; emphases practical work involving selected programming techniques and algorithms used widely in the development of systems software for both large and small computer systems; some emphasis is placed on the way in which the UNIX system implements the facilities considered.

CSN310 Parallel Processing (3)

Pre-requisite:
CSN210 Distributed Systems

Objectives:
Concerned with the architecture and performance of parallel computer systems; deals at length with the modelling of parallel systems and the design methodologies used in their construction; examines a range of applicable software systems and methodologies; the formal analysis of concurrent systems based on the theory of Communicating Sequential Processes.

Synopsis:
Hardware topologies and taxonomies; models and languages for parallel computations/applications; performance, modelling and verification of parallel systems; verification of concurrent programs.

ISB216 Political and Social Aspects of Information Technology (3)

Pre-requisite:
ISB113 Principles of Information Management

Objective:
Introduces the major political and legal aspects of information technology; Government policies relevant to the information industry; comparisons between policies adopted by different countries; the social consequences of technological convergence with emphasis on the changing nature of work and the evolution of the information professions.

Synopsis:
Stages in the information revolution; from industrial society to post-industrial society to information society; work in the information society; changing nature of work and patterns of employment; education in the information society: educating whom for what, and who decides; the impact of decentralised computing on the information manager's work; national information policies; politics of information; trade marks and patents; record keeping; duty of care.

ISB113 Principles of Information Management (3)

Objective:
Introduces management principles emphasising information as an essential organisational resource required by management to meet organisational goals and objectives; examines the nature and creation of information, storage media, organisation for storage, retrieval techniques, transfer, effects of internal and external environments, security, and obsolescence.

Synopsis:
General management principles; definition of information; role in the organisation; information life cycle; storage and retrieval; environmental considerations; information formats.

CMB104 Professional Communication (3)

Objectives:
To develop an ability to communicate successfully in writing and speaking in contemporary professional situations. Specifically to develop an understanding of the concepts and skills required for effective practices in formal reporting and persuasive writing, oral reporting and persuasive speaking, group decision making and meeting procedure, and leadership and participation.

ISP303 Programming (4)

Pre-requisites:
ISP100 The Computer System AND
ISP101 Data Design and Processing

Objective:
To develop expertise in advanced algorithms and data structures. To develop structured program design techniques for commercial applications. To develop an appreciation of the relative efficiency of these problem-solving techniques with respect to program development, testing, debugging and style.

Synopsis:
Program development; data structures - lists, linked lists, pointers, sorting, searching, tree structures; program design - top-down design, 'Structured Design', testing, debugging, efficiency; files - file access, organisation, file processing.

CSP214 Programming Languages and Structures (3)

Pre-requisite;
CSP112 Software Principles

Objective:
Builds on the material introduced in the pre-requisite subject; the anaysis of algorithms, the various styles of programming languages and the abstraction which they support.

Synopsis:
Disciplined design and programming, the abstract data type concept; overview of Modula-2; graphs and graph algorithms; functional programming: LISP, logic programming: Prolog, sorting.

CSB110 Programming Principles (3)

Pre-requisite:
CSB100 Introduction to Computer Science

Objectives:
Continuation of the material introduced in CSB100 Introduction to Computer Science.

Synopsis:
Develops structured program design techniques; introduces advanced algorithms and methods of proving program correctness.

ISB305 Project (3)

Pre-requisite:
Successful completion of at least the equivalent of two-thirds of the Bachelor of Business (Information Management) AND
CMB104 Professional Communication

Synopsis:
Students either individually or in small groups, undertake a substantial six month project which is relevant to the needs of industry and which is designed to give students insight into industrial requirements. Each student, or group of students, undertakes a different project and is supervised generally by a member of staff who provides guidance throughout the duration of the project.

CSP960 Project Work (4)

Pre-requisite:
Students normally undertake their project in the final semester of the Graduate Diploma in Computing Science.

Objectives:
(i) To ensure that students obtain experience in a practical application of significant proportions.
(ii) To develop the student's professional judgement and decision-making.
(iii) To develop the student's ability to provide the appropriate reports and documentation required by both management and technical staff throughout the lifetime of a project.

Synopsis:
Students, either individually or in small groups, undertake a substantial project which is relevant to the needs of industry and which is designed to give students insight into industrial requirements. Each student, or group of students, undertakes a different project and is supervised generally by a member of staff who provides guidance throughout the duration of the project.

INB300 Project Work (3)

Pre-requisites:
Successful completion of at least the equivalent of two-thirds of either the Bachelor of Applied Science (Computing) or Bachelor of Business (Computing) AND
CMB104 Professional Communication

Synopsis:
Students, either individually or in small groups, undertake a substantial 12 month project which is relevant to the needs of industry and which is designed to give students insight into industrial requirements. Each student, or group of students, undertakes a different project and is supervised generally by a member of staff who provides guidance throughout the duration of the project.
In addition, there is a teaching contribution of one hour per weak throughout the first semester from the School of Communication designed to develop the

student's communication skills. This part of the subject focuses on the various aspects of reporting and communication relevant to the student's future work environment.

CSP970 Project Work A (4)

Pre-requisite:
Completion of at least half of the Graduate Diploma in Computing Science.

Objectives and Synopsis:
As for CSP960 Project Work and intended for those students who wish to undertake additional project work.

MAB172 Quantitative Methods IB (3)

Objective:
To introduce students to basic statistics; provides quantitative skills useful in a wide range of employment opportunities; serves as a foundation for further quantitative subjects in the course.

Synopsis:
The presentation and description of data, probability, sampling methods and an introduction to the analysis of sample information.

ISB102 Representation of Information (3)

Objectives:
(i) To discuss the view of computers as being modelling tools
(ii) To describe the major concepts associated with the relational approach to database design
(iii) To use the language SQL to retrieve information from a database
(iv) To design a relational database
(v) To specify the rules governing database changes

Synopsis:
Provides students with the ability to develop an abstract model of a real situation, being the first step in the process of creating a computer-based information system. Forms a basis for the subsequent development of the concepts associated with the design and implementation of information systems.

CSB213 Scientific Applications (3)
CSP213 Scientific Applications (3)

Pre-requisite:
CSB110 Programming Principles OR
CSP112 Software Principles

Objectives:
To provide a thorough knowledge of FORTRAN, and to teach the solution of advanced scientific (e.g. mathematical and engineering) problems.

Synopsis:
FORTRAN programming to an advanced level including aspects of portability arising from differences in standards and compiler implementation. Mathematical software.

CSB302 Software Engineering (3)

Pre-requisites:
CSB210 Foundations of Computing II AND
CSB212 Languages and Language Processing

Objectives:
To present a formal approach to the state-of-the-art techniques in software design and development; to provide a means for students, working in teams, to apply these techniques in the organisation, management and development of a large scale software project.

CSP112 Software Principles (3)

Pre-requisite:
Completion of a qualifying Pascal programming subject prior to entry to the Graduate Diploma in Computing Science course.

Synopsis:
Structured program design techniques; advanced algorithms and methods of providing program correctness.

CSB320 Special Studies (3)

Pre-requisites:
Completion of at least half of the normal program of the Bachelor of Applied Science (Computing) OR
Completion of at least half of the Graduate Diploma in Computing Science

Objectives:
Covers at each offering, aspects of specific interest at that time; makes allowances for significant developments or emphasis in business computing not included in the remainder of the course program.

ISB999 Special Topic in Business Computing (3)
ISP998/ISP999 Special Topic in Commercial Computing (3)

Pre-requisite:
See School announcements.

Objective:
To provide allowance for significant development or emphasis in business computing not dealt with in other course subjects.

Synopsis:
Selected topics and study areas will be offered as required and when the necessary expertise is available. See School announcements for full details of special topics being offered.

ISB317 Special Topic in Information Management (3)

Pre-requisite:
See School announcements

Synopsis:
Covers at each offering, aspects of information management of specific interest at that time; makes allowance for significant developments or emphasis in information management not included in the remainder of the course program.

ISP417 Special Topic - Library Science (3)
ISP427 Special Topic - Library Science (3)

Pre-requisites:
See School announcements.

Synopsis:
Selected topics and study areas will be offered as required and when the necessary expertise is available. See School announcements for full details of special topics being offered.

ISB318 Strategic Information Management (3)

Pre-requisite:
ISB214 The Information Resource

Objective:
Stresses the importance of strategic planning by organisations and the contribution of the information manager; covers methods of intelligence analysis and

environmental scanning in support of strategic planning; introduces value of information to the strategic positions being adopted by the organisations.

Synopsis:
The strategic planning process; business competitor analysis and intelligence; environmental scanning; integration of internal and external data to support strategic planning; development of a corporate information policy; management and information issues.

ISP200 Systems Analysis and Design (3)

Pre-requisite or Co-requisite:
ISP101 Data Design and Processing

Objective:
To give students an understanding of methodologies for undertaking the development of a computer-based business system; to develop competence in the use of a number of techniques of systems analysis and design; to develop understanding of design considerations related to important business application areas; to extend the understanding of the application of data modelling.

Synopsis:
The tasks undertaken by a systems analyst. The System Life Cycle. Methodologies, tools and techniques for systems analysis and design.

CSP211 Systems Architecture and Operating Systems (4)

Pre-requisite:
CSP112 Software Principles OR
CSB200 Foundations of Computing I

Objective:
To provide an understanding of computer organisation, the nature and role of systems software and the nature of micro-computers and computer graphics.

Synopsis:
Computer system architecture including chip architecture, micro-operations, instruction formats, microprocessor types, machine language, system software including operating system features, assemblers, compilers, loaders.

ISP100 The Computer System (4)

Undergraduate Pre-requisite:
ISB392 Computer Systems and Programming (or equivalent)

Objectives:
(i) To provide an overview of the computer as a tool to be applied to a variety of problems concentrating on applications in commerce.
(ii) To develop the perception of the 'system solution' involving both software and hardware components as well as understanding the significance and complementary role of both aspects.
(iii) To provide a framework for understanding the relationship of later, more specific topics.
(iv) To provide an appreciation for the process necessary in system development, and a basic competence in algorithm development and implementation using PASCAL.

Synopsis:
Computer hardware and software; introduction to business computing concepts; algorithms development and implementation in PASCAL.

ISB214 The Information Resource (3)

Pre-requisite:
MNB103 Management I

Objective:
To introduce the management of information within an organisation with some considerations of the problems associated with sharing information between organisations and the identification and targetting of information users as clients.

Synopsis:
Objectives and structures of formal organisations and their impact on information needs and information flow; relationship of management styles to the use of information as a corporate resource; the use of formal and informal communication channels for accessing and distributing information; uses and limitations of information communication channels for accessing and distributing information; the impact of internal politics on information flow; concepts of information mapping and the targetting of information users (as clients or as organisational agents); uses and limitations of decision support systems in managerial decision-making; security of information and information resources as a management problem.

CSN100 Theory of Computing I (3)

Undergraduate Pre-requisite:
CSB210 Foundations of Computing II (or equivalent)

Synopsis:
Deals with formal properties of programs and automata; the view of programs as predicate transformers is developed as a method of constructing proveably correct algorithms; and methods of software development based on formal specifications are introduced. The relationship between computational problems posed as questions of language recognition and the operation of automata is developed, and the implications for computational complexity explored.

CSN300 Theory of Computing II (3)

Pre-requisite:
CSN100 Theory of Computing I

Objectives:
To extend ideas developed in CSN100 Theory of Computing I so as to give a more complete grounding in language theory; to cover modern developments such as methods of semantic specification and extensions of context-free grammars.

Synopsis:
Formal methods of semantics specifications of computer languages - Vienna Definition Notation, other denotational approaches; unrestricted languages, turing machines; theory of computability; proveable exponential-time problems; sub-optimal problem solutions; graph, indexed and stochastic context-free grammars.