This Volume is intended as a reference handbook for students enrolling in courses conducted by the Faculty of Architecture.

The colour band, Garnet BCC 160, on the cover is the lining colour of the hood of Bachelors of Architecture of this University.

The information in this Handbook is correct as at 1 September 1984.

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Faculty of Architecture

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DEAN'S INTRODUCTION

The profession of architecture, like the building industry it serves, is traditionally subject to the fluctuations of the general economy. Nevertheless, in times of both expansion and recession it provides for a continuing and essential social need. In meeting that need the profession provides opportunities for a wide range of activities and skills, from the refurbishment of historic structures to the design of new facilities, and from the investigation of building materials to the management of construction programmes.

For the student of architecture, this scope is reflected in the combination of areas of knowledge and skills which the undergraduate architectural courses are designed to develop. Embracing graphic skills as well as scientific knowledge, the study of history as well as of the latest developments in computer aided design, they call into play a unique range of practical and intellectual activities, at the heart of which lies that creative generation of built form in response to human need which we call design. Although there will be many forms of practice open to a student at the completion of the university course, it is this capacity for conceiving imaginative solutions to real problems which underlies the most effective contributions which an architect can make.

We believe that the best way in which a school of architecture can help a student develop this capacity is by dealing with relevant problems in a way which integrates the various areas of skill and knowledge required. It is this approach which gives the Newcastle Faculty its particular flavour, and which is guiding the development of its courses. As a compact, single-department Faculty, with strong roots in the community of the Hunter Valley region, it is well placed to extend the standards of excellence achieved by its students in the past.

BARRY S. MAITLAND,
Dean.
GENERAL INFORMATION

Location
The Faculty of Architecture functions in a self-contained building on the University campus where it is located across the western footbridge beyond the Library and Union over the ring road and adjacent to the Metallurgy building. The nearest general car park is north of the Metallurgy building. See the frontispiece plan for further details. The postal address is:
Faculty of Architecture
The University of Newcastle, N.S.W. 2308
The University telephone number is 68 0401.
The Departmental Office extension number is 361.

University of Newcastle Architectural Students' Association
Membership is open to both students and staff of the Faculty of Architecture as well as members of the architectural profession. Students of other faculties may be admitted as associate members. The Association aims at bringing together students at all levels within the Faculty and holds functions, both social and academic, including lectures by prominent members of the profession. Announcements of the Architectural Students' Association's activities are posted on the Notice Board in the Architecture building.

Professional Recognition
Holders of the degree of Bachelor of Architecture of the University are eligible to be registered as architects under the New South Wales Architects Act (No. 8, 1921, as amended) and the Regulations under that Act. An up-to-date copy of the Act and Regulations is held in the Departmental Office as is a stock of forms for application for registration as an architect. Registered architects may apply to the New South Wales Builders Licensing Board for a license to practise as builders under the Builders Licensing Act (N.S.W. 1971).

Professional Association
Students enrolled in the Faculty of Architecture are advised to apply for student membership of the Royal Australian Institute of Architects. The Institute issues a wide range of publications and holds numerous functions both social and educational at specially reduced rates for students, all of which should be of interest and value to the student architect.

Pre-requisites for Entry to the Bachelor of Science (Architecture) Degree in 1985
There are no mandatory prerequisite HSC subjects required of students entering the course. Students are advised however that the study of architecture will call upon skills of literacy, numeracy and design. The HSC subjects English, Mathematics, Physics, Art and Industrial Arts would provide a basis for the development of these skills.

Student Representation in Faculty Affairs
Provision is made for student representatives to be elected to the Faculty Board of the Faculty. The Faculty Board has responsibility for the teaching and research activities of the Faculty.

Awards
N. B. Pitt — James Hardie Scholarship, tenable for one year in Australia or overseas, is awarded to a University of Newcastle Bachelor of Architecture of not more than 3 years standing or a Bachelor of Architecture final year student for postgraduate study or research into environmental problems having particular regard to the Newcastle area.

Prizes
Newcastle Gas Co. Prize
This prize, donated by the Newcastle Gas Co. Ltd, is awarded at the end of 3rd year to the outstanding student in the technology subjects or study areas of the Bachelor of Science (Architecture) degree course.

P.G.H. Prize
The P.G.H. prize, donated by P.G.H. Industries Ltd, is awarded to the outstanding student graduating with the B.Sc.(Arch.) (3rd year).

Board of Architects of New South Wales Prize
The Board of Architects of N.S.W. Prize is awarded for the best academic performance in the Bachelor of Architecture degree course, if of sufficient merit.

Sydney C. Morton Prize
This prize is awarded annually to the graduating student who achieves the highest aggregate of marks in the technology subjects or study areas of the Bachelor of Science (Architecture) and Bachelor of Architecture degree courses, provided his work is of sufficient merit.

Neville Cloues Architectural Synthesis Prize
This prize is awarded annually to the student, being enrolled in one of the design subjects or study areas of the B.Sc.(Architecture) or B.Arch degree courses, who best demonstrates the design process by a project completed during the year. The prize shall be awarded on the recommendation of the Head of the Department of Architecture.

RAIA Annual NSW Chapter Prize
The New South Wales Chapter of the Royal Australian Institute of Architects offers a prize each year to the student whose performance in the Bachelor of Architecture degree course has been outstanding.

Further information on prizes and awards may be obtained from University Administration.

Drafting Equipment
At the commencement of the course recommendations for drafting equipment will be given.

Academic Dress
The Academic Dress worn by graduates of the Faculty of Architecture of the University of Newcastle is as follows:

Gown
(a) Degree of Bachelor
A gown of black cloth as worn by Bachelors of Arts of the University of Cambridge.
(b) Degree of Master
A gown of black cloth as worn by Masters of Arts of the University of Cambridge.
(c) Degree of Doctor of Philosophy
A gown of garnet cloth faced with silver grey to a width of 4 inches.
Caps and Bonnets

(a) Degree of Bachelor and Master
   Either a black cloth trencher cap or a black Canterbury cap.
(b) Degree of Doctor of Philosophy
   A black velvet bonnet with a silver cord.

Hoods

(a) Degree of Bachelor of Science (Architecture)
   A full hood of black silk lined to a depth of 6 inches with garnet and a 1½ inch edging of silver grey.
(b) Degree of Bachelor of Architecture
   A full hood of black silk lined to a depth of 6 inches with garnet.
(c) Degree of Master of Architecture
   A full hood of black silk lined with garnet.
(d) Degree of Doctor of Philosophy
   A hood of garnet lined with silver grey.

DEGREE REGULATIONS
REGULATIONS GOVERNING BACHELOR DEGREES OFFERED IN THE FACULTY OF ARCHITECTURE

1. General
   These Regulations are made in accordance with the powers vested in the Council under By-law 5.2.1 and prescribe the conditions and requirements relating to the degrees of Bachelor of Science (Architecture) and Bachelor of Architecture.

2. Definitions
   (1) In these Regulations and the Schedules thereto unless the context or subject matter otherwise indicates or requires:
      “course” means the total requirements as prescribed in the schedule to qualify a candidate for the award of the degree;
      “Dean” means the Dean of the Faculty of Architecture;
      “degree” means the degree of Bachelor of Science (Architecture) or Bachelor of Architecture as the case may be;
      “Department” means the department or departments offering a particular subject and includes any other body doing so;
      “Faculty Board” means the Faculty Board, Faculty of Architecture;
      “Schedule” means the Schedule to these Regulations relevant to the degree in which a person is enrolled or proposing to enrol;
      “subject” means any part of the course for which a result may be recorded.

3. Admission and Enrolment
   (1) An applicant for admission to candidature shall satisfy the requirements of the Regulations Governing Admission and Enrolment and such other additional requirements as may be specified in the Schedule.
   (2) In any year a candidate shall enrol only in those subjects approved by the Dean or his nominee.

4. Standing
   (1) The Faculty Board, on the recommendation of the Head of the Department concerned, may grant a candidate standing in specified subjects in recognition of work completed in this University or elsewhere, on such conditions as the Faculty Board may determine.
   (2) The standing granted under this Regulation shall not exceed the limit specified in the Schedule.

5. Prerequisites and Corequisites
   Except with the approval of the Dean, a candidate may not enrol in a subject unless he or she has passed any subject prescribed as its prerequisite and has already passed or concurrently enrols in or is already enrolled in any subject prescribed as its corequisite.

6. Withdrawal
   (1) A candidate may withdraw from enrolment in a subject or the degree only by informing the Secretary to the University in writing and the withdrawal shall take effect from the date of receipt of such notification.
   (2) A candidate who withdraws from any subject after the relevant date shall be deemed to have failed in that subject unless granted permission by the Dean to withdraw without penalty. The relevant date shall be:
      (a) in the case of any subject offered only in the first half of the academic year, the last Monday of first term;
(b) in the case of any subject offered only in the second half of the academic year, the fourth Monday of third term;
(c) in the case of any other subject, the last Monday of second term.

7. Subject Requirements
(1) To complete a subject, a candidate shall attend such lectures, tutorials, seminars, laboratory classes and field work and submit such written or other work as the Department shall require.
(2) To pass a subject a candidate shall complete it and pass such examinations as the Faculty Board shall require.

8. Grading of Degrees
(1) The degree shall be conferred as an ordinary degree except that in cases where a candidate's performance in the course has reached a standard determined by the Faculty Board, the degree may be conferred with merit or with honours as provided in the Schedule.
(2) A degree with honours shall be conferred in one of the following grades:
   (a) Class I;
   (b) Class II.

9. Admission to Degree
To qualify for admission to the degree a candidate shall satisfy the requirements prescribed in the Schedule.

10. Exceptional Circumstances
In order to provide for exceptional circumstances arising in a particular case, the Senate on the recommendation of the Faculty Board may relax any provision of these Regulations.

SCHEDULE 1 — BACHELOR OF SCIENCE (ARCHITECTURE)

1. To qualify for admission to the degree of Bachelor of Science (Architecture) a candidate shall pass all the subjects listed in the Appendix to this Schedule in accordance with the following conditions:
   (a) In any year a candidate shall enrol only in the Part I subjects or in the Part II subjects or in the Part III subjects specified in the Appendix to this Schedule, unless the Dean approves otherwise.
   (b) A candidate shall not enrol in a subject designated as a Part III subject until that candidate has passed all current or former Part I subjects.
   (c) Electives shall be selected from the list of subjects approved for this purpose by the Faculty Board and offered by the Department of Architecture and departments outside the Faculty.

2. A candidate may be granted standing in Architecture I and a maximum of two other subjects under the provisions of Regulation 4 of these Regulations.

3. The degree of Bachelor of Science (Architecture) may be conferred with merit.

APPENDIX TO SCHEDULE 1

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<tr>
<th>Part I Subject</th>
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<td>Architecture IIA and Architecture IIB</td>
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<td>Architecture IIA</td>
<td>Architecture IIA and Architecture IIB</td>
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<table>
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SCHEDULE 2 — BACHELOR OF ARCHITECTURE

1. To be eligible for admission to candidature an applicant shall:
   (a) have satisfied the requirements for admission to the degree of Bachelor of Science (Architecture) in the University of Newcastle; or
   (b) have satisfied the requirements for admission to a degree in another university or a qualification approved by the Faculty Board as a degree or qualification equivalent to the University's degree of Bachelor of Science (Architecture); or
   (c) in exceptional circumstances hold such academic and professional qualifications as may be approved by the Faculty Board.

2. To qualify for admission to the degree of Bachelor of Architecture a candidate shall pass all the subjects listed in the Appendix to this Schedule in accordance with the following conditions:
   (a) Except with the permission of the Dean given in exceptional circumstances, a candidate shall not enrol in more than four subjects in any academic year.
   (b) Electives shall be selected from the list of subjects approved for this purpose by the Faculty Board and offered by the Department of Architecture and departments outside the Faculty.

3. A candidate may be granted standing in a maximum of four subjects under the provisions of Regulation 4 of these Regulations.

4. The degree of Bachelor of Architecture may be conferred with honours.

APPENDIX TO SCHEDULE 2

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<tr>
<th>Subjects</th>
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11
REGULATIONS GOVERNING THE DEGREE OF
MASTER OF ARCHITECTURE

Part I — General

1. (1) These Regulations prescribe the conditions and requirements relating to the degrees of Master of Architecture, Master of Arts, Master of Commerce, Master of Education, Master of Educational Studies, Master of Engineering, Master of Engineering Science, Master of Mathematics, Master of Psychology (Clinical), Master of Psychology (Educational), Master of Science, Master of Medical Science, Master of Scientific Studies, Master of Special Education and Master of Surveying.

(2) In these Regulations and the Schedules thereto, unless the context or subject matter otherwise indicates or requires:

"Faculty Board" means the Faculty Board of the Faculty responsible for the course in which a person is enrolled or is proposing to enrol;

"programme" means the programme of research and study prescribed in the Schedule;

"Schedule" means the Schedule of these Regulations pertaining to the course in which a person is enrolled or is proposing to enrol; and

"thesis" means any thesis or dissertation submitted by a candidate.

(3) These Regulations shall not apply to degrees conferred "honoris causa.

(4) A degree of Master shall be conferred in one grade only.

2. An application for admission to candidature for a degree of Master shall be made on the prescribed form and lodged with the Secretary to the University by the prescribed date.

3. (1) To be eligible for admission to candidature an applicant shall:

(a) (i) have satisfied the requirements for admission to a degree of Bachelor in the University of Newcastle as specified in the Schedule; or

(ii) have satisfied the requirements for admission to a degree or equivalent qualification, approved for the purpose by the Faculty Board, in another tertiary institution; or

(iii) have such other qualifications and experience as may be approved by the Senate on the recommendation of the Faculty Board or as otherwise specified in the Schedule.

(b) have satisfied such other requirements as may be specified in the Schedule.

(2) Unless otherwise specified in the Schedule, applications for admission to candidature shall be considered by the Faculty Board which may approve or reject any application.

(3) An applicant shall not be admitted to candidature unless adequate supervision and facilities are available. Whether these are available shall be determined by the Faculty Board unless the Schedule otherwise provides.

4. To qualify for admission to a degree of Master a candidate shall enrol and satisfy the requirements of these Regulations including the Schedule.

5. The programme shall be carried out:

(a) under the guidance of a supervisor or supervisors either appointed by the Faculty Board or as otherwise prescribed in the Schedule; or

(b) as the Faculty Board may otherwise determine.

6. Upon request by a candidate the Faculty Board may grant leave of absence from the course. Such leave shall not be taken into account in calculating the period for the programme prescribed in the Schedule.

7. (1) A candidate may withdraw from a subject or course only by informing the Secretary to the University in writing and such withdrawal shall take effect from the date of receipt of such notification.

(2) A candidate who withdraws from any subject after the relevant date shall be deemed to have failed in that subject unless granted permission by the Dean to withdraw without penalty.

The relevant date shall be:

(a) in the case of a subject offered in the first half of the academic year — the eighth Monday in first term;

(b) in the case of a subject offered in the second half of the academic year — the second Monday in third term;

(c) in the case of any other subject — the sixth Monday in second term.

8. (1) If the Faculty Board is of the opinion that the candidate is not making satisfactory progress towards the degree then it may terminate the candidature or place such conditions on its continuation as it deems fit.

(2) For the purpose of assessing a candidate's progress, the Faculty Board may require any candidate to submit a report or reports on his progress.

(3) A candidate against whom a decision of the Faculty Board has made under Regulation 8(1) of these Regulations may request that the Faculty Board cause his case to be reviewed. Such request shall be made to the Dean of the Faculty within seven days from the date of posting to the candidate the advice of the Faculty Board's decision or such further period as the Dean may accept.

(4) A candidate may appeal to the Vice-Chancellor against any decision made following the review under Regulation 8(3) of these Regulations.

9. In exceptional circumstances arising in a particular case, the Senate, on the recommendation of the Faculty Board, may relax any provision of these Regulations.

Part II — Examination and Results

10. The Examination Regulations approved from time to time by the Council shall apply to all examinations with respect to a degree of Master with the exception of the examination of a thesis which shall be conducted in accordance with the provisions of Regulations 12 to 16 inclusive of these Regulations.

11. The Faculty Board shall consider the results in subjects, the reports of examiners and any other recommendations prescribed in the Schedule and shall decide:

(a) to recommend to the Council that the candidate be admitted to the degree; or

(b) in a case where a thesis has been submitted, to permit the candidate to resubmit an amended thesis within twelve months of the date on which the candidate is advised of the result of the first examination or within such longer period of time as the Faculty Board may prescribe; or

(c) to require the candidate to undertake such further oral, written or practical examinations as the Faculty Board may prescribe; or

(d) not to recommend that the candidate be admitted to the degree, in which case the candidature shall be terminated.
Part III — Provisions Relating to Theses

12. (1) The subject of a thesis shall be approved by the Faculty Board on the recommendation of the Head of the Department in which the candidate is carrying out his research.

(2) The thesis shall not contain as its main content any work or material which has previously been submitted by the candidate for a degree in any tertiary institution unless the Faculty Board otherwise permits.

13. The candidate shall give to the Secretary to the University three months' written notice of the date he expects to submit a thesis and such notice shall be accompanied by any prescribed fee.*

14. (1) The candidate shall comply with the following provisions concerning the presentation of a thesis:

(a) the thesis shall contain an abstract of approximately 200 words describing its content;

(b) the thesis shall be typed and bound in a manner prescribed by the University;

(c) three copies of the thesis shall be submitted together with:

(i) a certificate signed by the candidate that the main content of the thesis has not been submitted by the candidate for a degree of any other tertiary institution; and

(ii) a certificate signed by the supervisor indicating whether the candidate has completed the programme and whether the thesis is of sufficient academic merit to warrant examination; and

(iii) if the candidate so desires, any documents or published work of the candidate whether bearing on the subject of the thesis or not.

(2) The Faculty Board shall determine the course of action to be taken should the certificate of the supervisor indicate that in the opinion of the supervisor the thesis is not of sufficient academic merit to warrant examination.

15. The University shall be entitled to retain the submitted copies of the thesis accompanying documents and published work. The University shall be free to allow the thesis to be consulted or borrowed and, subject to the provisions of the Copyright Act, 1968 (Com), may issue it in whole or any part in photocopy or microfilm or other copying medium.

16. (1) For each candidate two examiners, at least one of whom shall be an external examiner (being a person who is not a member of the staff of the University) shall be appointed either by the Faculty Board or otherwise as prescribed in the Schedule.

(2) If the examiners' reports are such that the Faculty Board is unable to make any decision pursuant to Regulation 11 of these Regulations, a third examiner shall be appointed either by the Faculty Board or otherwise as prescribed in the Schedule.

*SCHEDULE 1 — MASTER OF ARCHITECTURE

1. The Faculty of Architecture shall be responsible for the course leading to the degree of Master of Architecture.

2. (1) To be eligible for admission to candidature an applicant shall:

(a) have satisfied the requirements for admission to the degree of Bachelor of Architecture from the University of Newcastle or any other approved university; or

(b) in exceptional cases produce evidence of such academic and professional attainments as may be approved by the Faculty Board.

(2) Diplomates of the New South Wales Department of Technical and Further Education seeking admission to candidature under the provisions of section 2(1) (b) of this Schedule shall be required to produce evidence of academic and professional progress over a period of at least five years from the time of gaining the diploma.

3. To qualify for admission to the degree a candidate shall complete to the satisfaction of the Faculty Board a programme consisting of:

(a) such work and examinations as may be prescribed by the Faculty Board; and

(b) a thesis embodying the results of an original investigation or design.

4. The programme shall be completed in:

(a) not less than two academic years except that, in the case of a candidate who has completed the requirements for a degree of Bachelor with honours or a qualification deemed by the Faculty Board to be equivalent or who has had previous research experience, the Faculty Board may reduce this period to not less than one academic year; and

(b) except with the permission of the Faculty Board, not more than 5 years.

* At present there is no fee payable.
Faculty Board policies of special interest to students are as follows —

Criteria for the Award of the Degree with Merit and Honours
(a) To qualify for the degree of Bachelor of Science (Architecture) with Merit, a candidate's performance expressed as an average of the marks obtained for all subjects of that course shall be 65% or better and there shall be no failure in any subject of that course.
(b) To qualify for the degree of Bachelor of Architecture with Honours Class I, a candidate's performance expressed as an average of the marks obtained for all subjects of that course shall be 72% or better and there shall be no failure in any subject of that course.
(c) To qualify for the degree of Bachelor of Architecture with Honours Class II, a candidate's performance expressed as an average of the marks obtained for all subjects of that course shall be less than 72% and equal to or better than 65% and there shall be no failure in any subject of that course.

For the purposes of this policy, a failure in a subject shall be deemed to result when the marks gained in each unit or sub-unit of the subject aggregate to less than 50%, or where the individual mark in any unit amounts to less than 50%, except that in the case of one unit only per subject the mark may amount to no less than 45%.

Student Progression
A student who is required to repeat a subject may, in exceptional circumstances and at the discretion of the Head of the Department, be granted standing in any passed unit or sub-unit of that subject. A student who has failed a subject should apply to the Head of the Department to determine whether any standing will be granted in units/sub-units of that subject.

A student who is required to repeat Architecture I shall not be entitled to standing in any part of the subject.

Unsatisfactory Progress
Under the Regulations Governing Unsatisfactory Progress the Faculty Board may review the academic performance of a student who does not maintain a rate of progress considered satisfactory by the Faculty Board. The following statement has been approved by the Faculty Board, Faculty of Architecture, with respect to its powers of review under the Regulations Governing Unsatisfactory Progress.

1. A student shall be considered to have failed to maintain a satisfactory rate of progress if:
   (a) he or she fails Architecture I in the Bachelor of Science (Architecture) degree course or Architecture IVA, IVB, IVC and Elective IV in the Bachelor of Architecture degree course at the first attempt; or
   (b) he or she fails a subject for a second time.

2. The academic progress of students who fail into either or both of the above categories shall be reviewed by a Faculty Progress Review Committee consisting of the Sub-Dean of the Faculty and the Head of the Department of Architecture, which may determine, under regulation 3(1) of the Regulations Governing Unsatisfactory Progress:
   (a) that the student be permitted to continue the course;
   (b) that the student be permitted to continue the course subject to such conditions as the Dean may decide;
   (c) that the student be excluded from further enrolment:
      (i) in the course; or
      (ii) in the course and any other course offered in the Faculty; or

(d) that the case be referred to the Admissions Committee together with a recommendation for such action as the Dean considers appropriate.

Subjects incompatible with the elective requirements for the B.Sc.(Arch.) and B.Arch. degree courses.
The following subjects offered by departments other than the Department of Architecture, shall not be approved as elective subjects for the B.Sc.(Arch.) degree or the B.Arch. degree because their content overlaps substantially with core subjects in the degree courses:

- Introductory Quantitative Methods
- Commercial EDP
- Legal Studies I

Students may not enrol in the units CE111 Statics and ME111 Graphics and Engineering Drawing offered by the Faculty of Engineering.

List of subjects approved by the Faculty Board as electives to be offered by the Department of Architecture.

B.Sc.(Arch.) Degree Course
Elective I (for those repeating this subject in 1985) may be chosen from:
- Landscape Design
- Urban Design A

Electives II and III may be chosen from:
- Architectural Research
- Landscape Design
- Urban Design A
- Urban Design B

B.Arch. Degree Course
Electives IV and V may be chosen from:
- Architectural Research
- Landscape Design
- Urban Design A
- Urban Design B

Year in Practice
Students are encouraged to spend a year working in the office of an architect or related professional upon completion of the B.Sc.(Arch.) degree and before commencing the B.Arch. programme. This year will be recognised by the Board of Architects as contributing towards the overall minimum seven year period of training/experience which is required of the architectural student, provided it is undertaken with the guidance of the Faculty. Advice on potential employers, log books and other relevant issues is available from the Faculty.

Part-time Students
The architecture courses are generally considered to require a high level of commitment and time, and students who attempt them on a part-time basis often find this to be a particularly onerous and difficult route. For this reason students are recommended to undertake full-time study wherever possible, but where circumstances prevent this, arrangements for part-time study are available. Currently the Faculty policy for part-time study is

Part I
the first year of the B.Sc.(Arch.) degree can be taken as two independent semesters.
Parts II-V the remainder of the B.Sc.(Arch.) and the B.Arch. degrees can be undertaken by enrolling in individual subjects (subject to prerequisite requirements), so that a part-time course comprising one or two subjects per year can be followed.

Part-time students entering the course in 1985 should note the Faculty’s intention to extend the Part I arrangement to other Parts in future years. Those undertaking outside employment are recommended to do so in a field which will support their coursework studies, and to seek advice from the Faculty in this respect.

### DESCRIPTION OF COURSES

**Introduction**

The Bachelor of Science (Architecture) and Bachelor of Architecture degrees comprise three and two parts respectively, these five parts corresponding to the five years study of an uninterrupted full-time programme leading to professional registration. Part I of the B.Sc.(Arch.) comprises a single subject, Architecture I, in which the various study areas covered by the course are integrated in a series of problem-based exercises. Parts II and III of the B.Sc.(Arch.) and IV and V of the B.Arch. are each made up of four subjects, in which the study areas are grouped broadly into Humanities, Technical, Studio Design and Elective subjects, the last of which may be taken, subject to Faculty approval, in other departments of the university.

It is the intention of the Department of Architecture that the integrated format of Architecture I, first introduced in 1985, will be subsequently extended to other parts of the two degree courses. For those students who entered the Department before 1985, however, the prerequisites for Part II subjects will be the earlier corresponding Part I subjects, Architecture IA, IB, IC and Elective I, as before. For details of these subjects, students are referred to the 1984 handbook.

Provision will be made for those students who fail Part I subjects in 1984 to undertake a transitional programme in 1985.

In the description of Part II-V subjects:

- **prerequisites** are compulsory, and are those subjects which a student must have passed before enrolling in the subject;
- **hours** refers to formal contact hours, whether in lectures, tutorials or studio periods, which are included in the timetable;
- **texts** are essential books which students are recommended to purchase;
- **references** are additional sources which students are recommended to read.

#### 211000 Architecture I (full-time students only)

#### 211001 Architecture I (Part-time 1) (part-time students only)

#### 211002 Architecture I (Part-time 2)

**Objectives**

The overall objectives of the first year programme, Architecture I, are to introduce students to the work of the Faculty and to the architectural context of the Hunter Region, and to begin the development of architectural skills, both cognitive and practical. Although the development of knowledge and expertise in the individual disciplines which contribute to the practice of architecture are important, it is equally important that the interaction between areas of knowledge is appreciated, and that the integrative nature of design is understood. For this reason the organisation of Architecture I resembles a matrix in which the individual study areas are introduced and developed through their successive application in problem exercises:

<table>
<thead>
<tr>
<th>Study Areas</th>
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<tr>
<th>Problem-based Exercises</th>
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<td>1</td>
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</table>
Problem-based Exercises

The overall theme and focus of the Architecture I exercises is "Problems of the Workplace". This introduces the student immediately to architectural problems arising from clearly perceived needs, and in a relatively direct and unambiguous form. The individual exercises are of varying length, but are grouped into five phases, each lasting about 5 weeks and having a common client, situation or location.

Phase I : Introduction to Problem-Solving
- forms an introduction to the history, climate and geography of the Hunter Region, to the observation and recording of the technical and social aspects of a simple agricultural building, and the development of basic language and graphic skills.

Phase II : Problems of the Work-Station
- concerns the relationship between the human body, work tasks and the immediate environment, and the generation of building form by the internal functions of the programme.

Phase III : Problems of the Envelope
- the relationship between building form and the external influences upon its envelope is examined in a small building in an urban setting.

Phase IV : Problems of the Plan
- strategies for assembling a number of functionally related spaces are considered, and an introduction is made to the full production cycle of a building, from inception to hand-over.

Phase V : Problems of the Section
- investigates the three-dimensional arrangement of a more varied number of functional spaces for professional offices on a tight urban site.

Study Areas

The problem-based exercises are the vehicle by which knowledge and skills in specific study areas are developed. At the start of each exercise its detailed objectives in terms of seven broad study areas are defined. An outline of the study areas and of these objectives runs as follows:

Professional Skills : first level competence in each of the basic areas of architectural communication;
ability to carry out simple tests of design performance using prepared computer programmes;

User Studies : understanding of patterns of work in the community and the need generated for buildings;
ability to elicit needs from client and user for simply defined problems;
knowledge of ergonomics of the workplace;

Site Studies : introduction to the variety of landscape conditions in the Hunter Valley and of its natural elements;
introduction to the patterns of development in the Hunter Valley and of their urban elements;
ability to carry out a measured drawing of a simple structure;

Precedent Studies : introduction to the architectural history of the Hunter Valley;
introduction to the functional tradition in western architecture, from 1800 to the present;
introduction to the strengths and limitations of the functionalist philosophy in modern architecture;

Design Studies : ability to generate, assess and develop appropriate design solutions for relatively clearly defined needs and activities, up to a level of complexity of about 10 discrete functional spaces on 3 physical levels;

Technical Studies : introduction to basic structural types;
ability to appraise a simple timber frame structure;
introduction to the design of simple single-storey timber, steel and concrete frame structures;
ability to appraise the environmental characteristics of a rural and an urban site;
ability to appraise the effects of differing heating, lighting, ventilation and acoustic conditions on some simple tasks;
ability to appraise the environmental performance of a small existing building;
introduction to the design of plumbing and drainage systems;
introduction to the design of the elements of construction for a small frame building;
introduction to major cost variables;
ability to carry out a simple cost feasibility costing for a small project;

Implementation Studies : introduction to the scope of the law in relation to building;
introduction to the management of individual and small group activities and to the use of consultants;
introduction to the complete job cycle for a small project;
introduction to the scope and responsibilities of the architect;
introduction to the range of suppliers, sub-contractors and contractors appropriate to a small building project in the Hunter Valley.

Working Method

Students will usually work in groups of eight with a group tutor. In addition tutors with particular knowledge of the study areas will act as specialist consultants in running the problem-based exercises.

Hours

Contact hours for full-time students will be in the range of 12-20 hours per week.

Assessment

At the completion of each phase, students will review the outcome of their work with their group tutor against the objectives set out at its start, and, where necessary, obtain help in rectifying areas of difficulty. Students will be responsible for keeping a portfolio of all their work carried out through the five phases, and this will form the basis of assessment by examiners at the end of this period.

Texts

At the start of each problem-exercise phase students will be advised of relevant texts and references.
212800 Architecture IIA

Prerequisites
Architecture IA

Hours
See individual unit requirements

Assessment
See individual unit requirements

Content
Arch. IIA consists of the following units:
(i) 212801 Visual Studies
(ii) 212802 Data Processing
(iii) 212805 Man Environment Studies

(i) 212801 VISUAL STUDIES

Hours
4 hours per week

Content
Projects will include:

Term I
A. Field Sketching — Part I
B. Building recording and rendering

Term II
C. Building Detail Project
D. Art Project

Term III
E. Field Sketching — Part II
F. Urbanscape Project

Unit Requirements
(a) Weekly Studio and/or Field sessions will be held.
(b) Submissions.
The work as carried out in the various projects will be submitted as required.

Assessment
Each project will have a percentage value as follows:
A — 15%
B — 15%
C — 30%
D — 20%
E — 10%
F — 10%

The marks awarded will be used as the basis to determine the Final Mark and Grade for the Unit — however, the development of a student may also be taken into account, and consequently a student may be requested to resubmit all or part of the year's work for review at the end of Term 3.

Texts and References
There are no texts recommended for this unit. A reading list will be issued to students enrolled in this unit at the beginning of first term.

(ii) 212802 DATA PROCESSING

Content
Data Processing consists of the following sub-unit:
(a) 212804 Computing Studies

(a) 212804 COMPUTING STUDIES

Hours
2 hours per week

Content
Lectures, tutorials and laboratory work on the application of computers to the practice of architecture. High level computing languages will be studied, involving the development of simple applications programs. Use of computer packages developed to solve specific problems. A study of the areas where the computer can be of assistance to the professional in practice will be undertaken.

Assessment
A series of assignments developing programs, using computer packages and at least one essay/report.

Reference

(iii) 212805 MAN ENVIRONMENT STUDIES

Content
Man Environment Studies consists of the following sub-units:
(a) 212806 Social Sciences
(b) 212807 History of Architecture

(a) 212806 SOCIAL SCIENCES

Hours
1 hour per week

Content
Social Sciences sets out to examine how Architecture serves man's spiritual, aesthetic and physical needs. The transmission of value systems through the built environment are illustrated by discussion on the influences of social, political and economic thought on the designer. Studies on the history of technological innovation, human institutions and ideas of social progress will portray how ideals and movements shape society and determine architectural expression. Selected assignments into the social aspects of Architecture aim to assist the student's development and awaken his professional convictions by exercising his ability to refine research material, define social objectives, and understand the complexity of social phenomena.

The Social Sciences courses are being formed into a sociological and philosophical study of Architecture and cover those social and political aspects of life that have shaped the profession, its practitioners and their work. The meaning and purpose of Architecture is central to this debate and hence emphasis has been put on an understanding of the theories of Architecture and historical movements within Architecture. These have been approached from multidisciplinary points of view, such as architectural psychology, urban sociology and social history, and seek to complement the analysis of styles proper to architectural history.
The subject of the course in the first semester is the development of Renaissance, Mannerist and Baroque architecture of Europe which is analysed in terms of spatial composition, corporeal form, visible form and purposive intention. The second semester will be devoted to the development of architectural theory and its application to built works will be emphasised.

Two essay assignments 30% each
One 3-hour examination 40%
References
Engel, L. Structural Principles (Prentice-Hall 1984)
Gordon, J. E. The New Science of Strong Materials or Why You Don't Fall Through the Floor (Penguin)
Salvadori, M. Structure in Architecture; the Building of Building (Prentice-Hall 1975)
& Heller, R. Structures (Prentice-Hall 1980)
Schodeck, D. L. Strength of Materials Part I (Van Nostrand)

(ii) 212822 CONSTRUCTION

Hours
A total of 3 hours per week including lectures, studio work and excursions.

Content
Following the precept that design is indivisible and that the subject and its units, the technologies, the unit construction is considered as an area of study in collaboration with the projects required to be accomplished and integrated with the synthesis subject of Group II.

The constructional studies are concerned with the basic technology of load bearing wall construction up to five stories in height.

The student should become acquainted with technical literature, constructional detail, methods appropriate to the course content. The series of lectures includes consideration of:

Foundations
- Soils,
- Safe bearing values,
- Cut and fill,
- Larger projects with mixed foundations,
- Site, including sampling and testing methods of soil strata,
- Excavation and earth moving,
- Requirements of local Government Building Ordinance No. 70.

Footings
- Use and application of all types of footings for various structural systems.

Basements and Cellars
- Retaining walls,
- Sub soil drainage,
- Waterproofing,
- Cantilever slabs,
- Hydrostatic pressure,
- Methods of de-watering.
The University of Newcastle Calendar consists of the following volumes:

Volume 1 — Legislation:
- Part 1 — The University of Newcastle Act,
- Part 2 — By-laws and Regulations,
- Part 3 — Bodies Established by Resolution of Council,
- Part 4 — Scholarships, Prizes and Financial Assistance.

Volume 2 — University Bodies and Staff:
- Part 1 — Principal Officers, Council, Senate, Boards and Committees,
- Part 2 — The Professors and Staff.

Volume 3 — Handbook, Faculty of Architecture
Volume 4 — Handbook, Faculty of Arts
Volume 5 — Handbook, Faculty of Economics and Commerce
Volume 6 — Handbook, Faculty of Education
Volume 7 — Handbook, Faculty of Engineering
Volume 8 — Handbook, Faculty of Mathematics
Volume 9 — Handbook, Faculty of Medicine
Volume 10 — Handbook, Faculty of Science
Volume 11 — Annual Report

All volumes, except Volume 1 — Legislation, are published annually.

Volume 1 — Legislation is published irregularly the last issue being 1982.

All volumes except Volumes 2 Staff and 11 Annual Report are available on microfiche.

Other Publications
Undergraduate Prospectus
Postgraduate Prospectus
An ABC for New Students
University News
Gazette

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1 PRINCIPAL DATES 1985

January
1 Tuesday     Public Holiday — New Year’s Day
11 Friday     Last day for return of Re-Enrolment Forms — Continuing Students
14 Monday     Deferred Examinations begin
25 Friday     Deferred Examinations end
28 Monday     Public Holiday — Australia Day
31 Thursday   Closing date for applications for residence in Edwards Hall

February
6 Wednesday   New students attend in person to enrol and pay charges
8 Friday      Late enrolment session for new students
19 Tuesday    First Term begins
25 Monday     First Term ends

April
5 Friday      Good Friday — Easter Recess commences
9 Tuesday     Lectures resume
25 Thursday   Public Holiday — Anzac Day
29 Monday     Last day for withdrawal without academic penalty from first half year subjects (See page (vii) for Dean’s discretion)

May
3 Friday      First Term ends
20 Monday     Examinations begin
24 Friday     Examinations end
27 Monday     Second Term begins

June
10 Monday     Public Holiday — Queen’s Birthday
14 Friday     Last day for return of Confirmation of Enrolment forms
29 Saturday   Examinations begin
30            Closing date for Applications for Selection to the Bachelor of Medicine course in 1986

July
13 Saturday   Examinations end

August
12 Monday     Last day for withdrawal without academic penalty from full year subjects (See page (vii) for Dean’s discretion)
16 Friday     Second Term ends
19 Monday     Examinations begin
23 Friday     Examinations end

September
9 Monday      Third Term begins
30 Monday     Last day for withdrawal without academic penalty from second half year subjects (See page (vii) for Dean’s discretion)

October
1 Tuesday     Closing date for Applications for Enrolment 1986 (Undergraduate courses other than Medicine)
7 Monday     Public Holiday — Labor Day

November
1 Friday      Third Term ends
11 Monday     Annual Examinations begin
27 Wednesday  Annual Examinations end

Note: Term dates for students in the Bachelor of Medicine course are printed in Calendar Volume 9 — Medicine Handbook.

1986

January
13 Monday     Deferred Examinations begin
24 Friday     Deferred Examinations end

February
24 Monday     First Term begins

(iv)

(v)
II GENERAL INFORMATION
Enrolment of New Students
Persons offered enrolment are required to attend in person at the Great Hall early in February to enrol and pay charges. Detailed instructions are given in the Offer of Enrolment.

Transfer of Course
Students currently enrolled in an undergraduate Bachelor degree course who wish to transfer to a different undergraduate Bachelor degree course must complete an Application for Course Transfer form and lodge it at the Student Administration Office by 11 January 1985.

Enrolment of Continuing Students
The University makes arrangements for continuing students to enrol by mail. There are two steps involved:
- Lodging the Enrolment form with details of your proposed programme,
- Completing enrolment by lodging the Authority to Complete Enrolment form with the cashier with charges payable.

1. Lodging Enrolment Forms
Re-enrolment materials will be mailed to all undergraduate students in mid-December. Those who wish to enrol in 1985 and who are eligible to do so (see Regulations Governing Unsatisfactory Progress) should complete the enrolment form as soon as possible after the release of the 1984 annual examination results, and forward it to The Secretary, University of Newcastle, N.S.W., 2308.

Enrolment forms from continuing students are due by 11 January 1985 except in the case of a student who is required to take a special or deferred examination in which case the enrolment form must be submitted within seven days of the release of those examination results.

Submission of enrolment forms after the due date will render the student liable to a late lodgement charge of $14.00.

Students who, for good reason, are unable to submit their enrolment forms by the due date, may apply for an extension of time. The request, with details of the reason for the extension must reach the Secretary by the due date if the late lodgement charge is to be avoided. The By-laws provide that no enrolment will be accepted after the due date.

2. Completing Enrolment
When the proposed programme has been approved, an Authority to Complete Enrolment form will be mailed to the student showing charges payable. Students are required to complete enrolment by lodging the form with the Cashier with the charges payable. This can be done by mail or in person. The Cashier's office is open 10 am to 12 noon and 2 pm to 4 pm Monday to Friday. At least 14 days notice is allowed from the date of posting to the date by which charges must be paid if a late charge is to be avoided.

Student Cards
The Authority to Complete Enrolment form incorporates the student's identification card which is returned to him after payment of charges. It should be carried by students when at the University. It serves as evidence that the student is enrolled and must be presented when applying for travel concessions, a parking permit or to confirm membership of the University Union.

If a student loses his Student Card he should pay the replacement charge of 50 cents to the Cashier and present the receipt at the Student Administration Office when seeking a replacement card.

A student who withdraws completely from studies should return the Student Card to the Student Administration Office.

Library Cards
Students should present their Student Card to the Library desk to be issued with their Library Borrower Number. This card, with its machine readable lettering, must be presented when borrowing books from the Library.

Re-admission after Absence
A person wishing to resume an undergraduate degree course who has been enrolled previously at the University of Newcastle, but not enrolled in 1984, is required to apply for admission again through the Universities and Colleges Admissions Centre, Box 7049 G.P.O. Sydney. Application forms may be obtained from the UCAC or from the Student Administration Office and close with the UCAC on 1 October each year. There is a $30 fee for late applications.

Attendance Status
A candidate for any qualification other than a postgraduate qualification who is enrolled in three quarters or more of a normal full-time programme shall be deemed to be a full-time student whereas a candidate enrolled in either a part-time course or less than three-quarters of a full-time programme shall be deemed to be a part-time student.

A candidate for a postgraduate qualification shall enrol as either a full-time or a part-time student as determined by the Faculty Board.

Change of Address
Students are responsible for notifying the Student Administration Office in writing of any change in their address. A Change of Address form should be used and is available from the Student Administration Office.

Failure to notify changes could lead to important correspondence or course information not reaching the student. The University cannot accept responsibility if official communications fail to reach a student who has not notified the Student Administration Office of a change of address.

It should be noted that examination results, re-enrolment and other correspondence will be mailed to students in December and January. Students who will be away during the long vacation from the address given to the University for correspondence should make arrangements to have mail forwarded to them.

Change of Name
Students who change their name should advise the Student Administration Office. Marriage, deed poll or naturalisation etc. certificates should be presented for sighting in order that the change can be noted on University records.

Change of Programme
Approval must be sought for any changes to the programme for which a student has enrolled. This includes adding or withdrawing subjects, changing attendance status (for example from full-time to part-time) or transferring to a different degree or faculty.

All proposed changes should be entered on the Variation of Programme form available at the Student Administration Office. Reasons for changes and where appropriate documentary evidence in the form of medical or other appropriate certificates must be submitted.

Withdrawal
Application to withdraw from a subject should be made on a Variation of Programme form and lodged at the Student Administration Office or mailed to the Secretary.

Applications received by the appropriate date listed below will be approved for withdrawal without a failure being recorded against the subject or subjects in question.
Withdrawal Dates

<table>
<thead>
<tr>
<th>First Half-Year Subjects</th>
<th>Second Half-Year Subjects</th>
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<tr>
<td>Monday</td>
<td>Monday</td>
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<tr>
<td>12 August 1985</td>
<td>29 April 1985</td>
</tr>
<tr>
<td>29 April 1985</td>
<td>30 September 1985</td>
</tr>
</tbody>
</table>

Withdrawal after the above dates will normally lead to a failure being recorded against the subject or subjects unless the Dean of the Faculty grants permission for the student to withdraw without a failure being recorded.

If a student believes that a failure should not be recorded because of the circumstances leading to his withdrawal, it is important that full details of these circumstances be provided with the application to withdraw.

**Confirmation of Enrolment**

In May each year the University mails to all students a Confirmation of Enrolment form which also serves as the application to sit for examinations. This form should be checked carefully, signed and returned to all students (including non-degree students and postgraduate students not taking formal subjects) to confirm that they are actively pursuing subjects for which they are enrolled and that the information on University records is correct and complete.

**Indebtedness**

The Council of the University has directed that students who are indebted to the University because of unpaid charges, library fines or parking fines may not

- complete enrolment in a following year;
- receive a transcript of academic record; or
- graduate or be awarded a Diploma.

Students are requested to pay any debts incurred without delay.

**Leave of Absence**

A student who does not wish to re-enrol for any period up to three years should apply for leave of absence. Leave of absence is normally granted only to those students who are in good standing. Applications should be submitted before the end of first term in the first year for which leave of absence is sought. Leave of absence will not be granted for more than three years and will not be granted retrospectively.

Any student who does not enrol for a period of two years and does not obtain leave of absence, must apply for re-admission to the University when he wishes to resume his studies. Application for re-admission to undergraduate degree courses must be made through the UCAC (see p.vii).

**Attendance at Classes**

Where a student's attendance or progress has not been satisfactory, action may be taken under the Regulations Governing Unsatisfactory Progress.

In the case of illness or absence for some other unavoidable cause, a student may be excused for non attendance at classes.

All applications for exemption from attendance at classes must be made in writing to the Head of the Department offering the subject. Where tests or term examinations have been missed, this fact should be noted in the application.

The granting of an exemption from attendance at classes does not carry with it any waiver of the General Services Charge.

**General Conduct**

In accepting membership of the University, students undertake to observe the by-laws and other requirements of the University. Students are expected to conduct themselves at all times in a seemly fashion. Smoking is not permitted during lectures, in examination rooms or in the University Library. Gambling is forbidden.

Members of the academic staff of the University, senior administrative officers, and other persons authorised for the purpose have authority to report on disorderly or improper conduct occurring in the University.

**Notices**

Official University notices are displayed on the notice boards and students are expected to be acquainted with the contents of those announcements which concern them.

A notice board on the wall opposite the entrance to Lecture Theatre B01 is used for the specific purpose of displaying examination time-tables and other notices about examinations.

**Student Matters Generally**

The main notice board is the display point for notices concerning enrolment matters, scholarships, University rules and travel concessions, etc. This notice board is located on the path between the Union and the Library.

### III EXAMINATIONS

Tests and assessments may be held in any subject from time to time. In the assessment of a student's progress in a university course, consideration will be given to laboratory work, tutorials and assignments and to any term or other tests conducted throughout the year. The results of such assessments and class work may be incorporated with those of formal written examinations.

**Examination Periods**

Formal written examinations take place on prescribed dates within the following periods:

- **End of First Term:** 20 to 24 May, 1985
- **Mid Year:** 29 June to 13 July, 1985
- **End of Second Term:** 19 to 23 August, 1985
- **End of Year:** 11 to 27 November, 1985

Timetables showing the time and place at which individual examinations will be held will be posted on the examinations notice board near Lecture Theatre B01 (opposite the Great Hall).

Misreading of the timetable will not under any circumstances be accepted as an excuse for failure to attend an examination.

**Sitting for Examinations**

Formal examinations, where prescribed, are compulsory. Students should consult the final timetable in advance to find out the date, time and place of their examinations and should allow themselves plenty of time to get to the examination room so that they can take advantage of the 10 minutes reading time that is allowed before the examination commences. Formal examinations are usually held in the Great Hall area and (in November) the Auchmuty Sports Centre. The seat allocation list for examinations will be placed on the Noticeboard of the Department running the subject, and on a noticeboard outside the examination room.

Students can take into any examination any writing instrument, drawing instrument or calculating instrument. Logarithmic tables may not be taken into the examination room.

Members of the academic staff of the University, senior administrative officers, and other persons authorised for the purpose have authority to report on disorderly or improper conduct occurring in the University.

Calculators may be used, if permitted by the examiner in any examination. They must be hand held, battery operated and non-programmable* and students should note that no concession will be granted:

(a) to a student who is prevented from bringing into a room a programmable calculator;
(b) to a student who uses a calculator incorrectly; or
(c) because of battery failure.

* A programmable calculator will be permitted provided program cards and devices are not taken into the examination room.
Rules for Formal Examinations

Regulation 15 of the Examination Regulations sets down the rules for formal examinations, as follows:

(a) candidates shall comply with any instructions given by a supervisor relating to the conduct of the examination;
(b) before the examination begins candidates shall not read the examination paper until granted permission by the supervisor which shall be given ten minutes before the start of the examination;
(c) no candidate shall enter the examination room after thirty minutes from the time the examination has begun;
(d) no candidate shall leave the examination room during the first thirty minutes or the last ten minutes of the examination;
(e) no candidate shall re-enter the examination room after he has left it unless during the full period of his absence he has been under approved supervision;
(f) a candidate shall not bring into the examination room any bag, paper, book, written material, device or aid whatsoever, other than such as may be specified for the particular examination;
(g) a candidate shall not by any means obtain or endeavour to obtain improper assistance in his work, give or endeavour to give assistance to any other candidate, or commit any breach of good order;
(h) a candidate shall not take from the examination room any examination answer book, graph paper, drawing paper or other material issued to him for use during the examination;
(i) no candidate may smoke in the examination room.

Any infringement of these rules constitutes an offence against discipline.

Examination Results

Examination results and re-enrolment papers will be available for collection from the Drama Studio in December. The dates for collection will be put on noticeboards outside the main examination rooms in November.

Results not collected will be mailed.

No results will be given by telephone.

After the release of the annual examination results a student may apply to have a result reviewed. There is a charge of $8.00 per subject, which is refundable in the event of an error being discovered. Applications for review must be submitted on the appropriate form together with the prescribed review charge by 7 January 1986.

However, it should be noted that examination results are released only after careful assessment of students' performances and that, amongst other things, marginal failures are reviewed before results are released.

Special Examinations

When considering the examination results Faculty Boards take into consideration any circumstances such as illness or personal problems which may have seriously affected a student's work during the year or during the examinations. Any student who considers that his work has been affected in this way or who is unable to attend for any examination and who wishes to apply for special consideration should write to the Secretary explaining the circumstances and, in the case of illness, enclosing a medical certificate (see Regulation 12 (2) of the Examination Regulations, Calendar Volume I).

If a student is affected by illness during an examination, and wishes to ask for a Special Examination he must report to the supervisor in charge of the examination and then make written application to the Secretary as soon as possible after the examination (see Regulation 12 (3) of the Examination Regulations, Calendar Volume I).

Deferred Examinations

The Boards of the Faculties of Architecture, Engineering, and Mathematics may grant deferred examinations. Such examinations, if granted, will be held in January-February and candidates will be advised by mail of the times and results of the examinations.

IV UNSATISFACTORY PROGRESS

The University has adopted Regulations Governing Unsatisfactory Progress which are set out below.

Students who become liable for action under the Regulations will be informed accordingly by mail after the release of the End of Year examination results and will be informed of the procedure to be followed if they wish to 'show cause'.

Appeals against exclusion must be lodged together with re-enrolment forms by Friday 11 January 1985.

The Faculty's progress requirements are set out elsewhere in this volume.

Regulations Governing Unsatisfactory Progress

1. (1) These Regulations are made in accordance with the powers vested in the Council under By-law 5.1.2.
2. (1) These Regulations shall apply to all students of the University except those who are candidates for a degree of Master or Doctor.
3. (1) In these Regulations, unless the context or subject matter otherwise indicates or requires:
    "Admissions Committee" means the Admissions Committee of the Senate constituted under By-law 2.3.5;
    "Dean" means the Dean of a Faculty in which a student is enrolled;
    "Faculty Board" means the Faculty Board of a Faculty in which a student is enrolled.
4. (1) A student's enrolment in a subject may be terminated by the Head of the Department offering that subject if that student does not maintain a rate of progress considered satisfactory by the Head of the Department. In determining whether a student is failing to maintain satisfactory progress the Head of Department may take into consideration such factors as:
    (a) unsatisfactory attendance at lectures, tutorials, seminars, laboratory classes or field work;
    (b) failure to complete laboratory work;
    (c) failure to complete written work or other assignments; and
    (d) failure to complete field work.
5. (1) The enrolment of a student in a subject shall not be terminated pursuant to regulation 2 (1) of these Regulations unless he has been given prior written notice of the intention to consider the matter with brief particulars of the grounds for so doing and has also been given a reasonable opportunity to make representations either in person or in writing or both.
6. (1) A student whose enrolment in a subject is terminated under regulation 2 (1) of these regulations may appeal to the Faculty Board which shall determine the matter.
7. (1) A student whose enrolment in a subject is terminated under this Regulation shall be deemed to have failed the subject.
8. (1) A Faculty Board may review the academic performance of a student who does not maintain a rate of progress considered satisfactory by the Faculty Board and may determine:
    (a) that the student be permitted to continue the course;
Where the progress of a student who is enrolled in a combined course or a Faculty Board to be unsatisfactory, the Faculty Board shall refer the matter back to the Admissions Committee with a recommendation for such action as the Faculty Board considers appropriate.

(2) Before a decision is made under regulation 3 (1) (b) or (c) of these Regulations the student shall be given an opportunity to make representations with respect to the matter, either in person or in writing or both.

(3) A student may appeal against any decision made under regulation 3 (1) (b) or (c) to the Admissions Committee which shall determine the matter.

4. Where the progress of a student who is enrolled in a combined course or who has previously been excluded from enrolment in another course or Faculty is considered by the Faculty Board to be unsatisfactory, the Faculty Board shall refer the matter to the Admissions Committee together with a recommendation for such action as the Faculty Board considers appropriate.

5. (1) An appeal made by a student to the Admissions Committee pursuant to Regulation 3 (3) of these Regulations shall be in such form as may be prescribed by the Admissions Committee and shall be made within fourteen (14) days from the date of posting to the student of the notification of the decision or such further period as the Admissions Committee may accept.

(2) In hearing an appeal the Admissions Committee may take into consideration any circumstances whatsoever including matters not previously raised and may seek such information as it thinks fit concerning the academic record of the appellant and the making of the determination by the Faculty Board. Neither the Dean nor the sub-Dean shall act as a member of the Admissions Committee on the hearing of any such appeal.

(3) The appellant and the Dean or his nominee shall have the right to be heard in person by the Admissions Committee.

(4) The Admissions Committee may confirm the decision made by a Faculty Board or may substitute for it any other decision which the Faculty Board is empowered to make pursuant to these Regulations.

6. (1) The Admissions Committee shall consider any case referred to it by a Faculty Board and may:

(a) make any decision which the Faculty Board itself could have made pursuant to regulation 3 (1) (a) or (b) of these Regulations; or

(b) exclude the student from enrolment in such other subjects, courses, or Faculties as it thinks fit; or

(c) exclude the student from the University.

(2) The Committee shall not make any decision pursuant to regulation 6 (1) (b) or (c) of these Regulations unless it has first given to the student the opportunity to be heard in person by the Committee.

(3) A student may appeal to the Vice-Chancellor against any decision made by the Admissions Committee under this Regulation.

V CHARGES

Enrolment is completed by lodging with the Cashier the approved Authority to Complete Enrolment form with a remittance to cover all charges due or written evidence that a sponsor will meet all charges.

New students are required to pay all charges when they attend to enrol. For re-enrolling students at least 14 days notice is allowed from the date of mailing the Authority to Complete Enrolment form to the date by which charges must be paid if late charges are to be avoided. The actual date, which will not be before mid February, will be printed on the form. A late date will be set if approval of the proposed programme has been delayed or if the student has taken Special or Deferred examinations.

<table>
<thead>
<tr>
<th>Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Services Charge</td>
<td>$154</td>
</tr>
<tr>
<td>(a) Students Proceeding to a Degree or Diploma</td>
<td>$148</td>
</tr>
<tr>
<td>Full-time students</td>
<td></td>
</tr>
<tr>
<td>Part-time students</td>
<td></td>
</tr>
<tr>
<td>Plus Students joining Newcastle University Union for the first time</td>
<td>$10</td>
</tr>
<tr>
<td>(b) Non-Degree Students</td>
<td></td>
</tr>
<tr>
<td>Newcastle University Union charge</td>
<td>$70</td>
</tr>
</tbody>
</table>

The exact amount must be paid in full by the prescribed date.
2. Late Charges
(a) Late Lodgement of Enrolment Form
   Where a continuing student does not lodge the
   Enrolment form by Friday, 11 January, 1985 ............. $14
   where a candidate for a special or deferred examination
   in January does not lodge the Enrolment form by
   Monday, 11 February, 1985 .................................. $14
(b) Late Lodgement of Authority to Complete Enrolment Form
    with Cashier
    Where the Authority to Complete Enrolment Form together
    with
    (i) General Services Charge payable; or
    (ii) evidence of sponsorship (e.g. scholarship voucher or letter
        from Sponsor); or
    (iii) an Extension of Time to Pay Charges form
    is not lodged with the Cashier by the Due Date prescribed
    by the Secretary on the Authority to Complete Enrolment
    form ............................................................ $14
(c) Late Payment of Charges
    Where all charges have not been paid by the Due Date
    (i) if not more than 14 days overdue ................................ $8
    (ii) if more than 14 days overdue ................................ $14
3. Other Charges
   (a) Examination under special supervision .................. $15 per paper
   (b) Review of examination results .......................... $8 per subject
   (c) Statement of matriculation status for non-members of the
       University ....................................................... $8
   (d) Academic statements in excess of six per annum ...... 15c per copy
   (e) Replacement of student cards ........................... 50c each

Payment of Charges
Enrolment is completed by lodging with the University Cashier the approved Authority to
Complete Enrolment Form with a remittance to cover all charges due or written evidence
that a sponsor will meet these charges. Payment by mail is encouraged. Money Orders
should be made payable at the Newcastle University Post Office, N.S.W. 2308. The
Cashier's Office is located on the First Floor of the McMullin Building, and is open from
10 am to 12 noon, and 2 pm to 4 pm.

Students are urged to pay charges by mail and a pre-addressed envelope will be forwarded
with the Authority to Complete Enrolment form.

Scholarship Holders and Sponsored Students
Students holding scholarships or receiving other forms of financial assistance must lodge
with the University Cashier their Authority to Complete Enrolment Form together with
warrants or other written evidence that charges will be paid by sponsors. Sponsors must
provide a separate voucher, warrant or letter for each student sponsored.

Extension of Time to Pay Charges
Students who have finalised their programme and been issued with their Authority to
Complete Enrolment form but who, due to circumstances beyond their control, are
unable to pay the charges due, may apply for an extension of time to pay charges. The
Extension of Time form should be completed and presented in person at the Student
Administration Office where arrangements will be made for the student to be interviewed.

Refund of Charges
Students who notify the Student Administration Office of a complete withdrawal from
their courses should also lodge a claim form for a refund of charges that they have paid. A
refund cheque will be mailed to the student or, if applicable, to the sponsor.
The refund will be based on the date of notification of withdrawal, as follows:
Notification on or before Monday, 25 February, 1985 .......................... 100%
Notification on or before Friday, 22 March, 1985 ........................... 90%
Notification on or before Friday, 28 June, 1985 ............................ 50%
No refund will be made before 31 March, 1985.

Higher Degree Candidates
Higher degree candidates are required to pay the General Services charge and Union
Entrance charge, if applicable. Where the enrolment is effective from First or Second
Term, the General Services charge covers the period from the first day of the term to the
Friday immediately preceding the first day of First Term in the following academic year.
Where enrolment is on or after the first day of Third Term, the General Services charge
paid will cover liability to the end of the long vacation following the next academic year.

VI CAMPUS TRAFFIC AND PARKING
Persons wishing to bring motor vehicles (including motor cycles) on to the campus are
required to obtain and display on the vehicle a valid permit to do so. Permits may be
obtained from the Attendant (Patrol) Office which is located off the foyer of the Great
Hall. Permit holders must comply with the University's Traffic and Parking Regulations
including parking in approved parking areas, complying with road signs and not
exceeding 35 k.p.h. on the campus.
If the Vice-Principal, after affording the person a period of seven days in which to submit a
written statement is satisfied that any person is in breach of Regulations, he may:
(a) warn the person against committing any further breach; or
(b) impose a fine; or
(c) refer the matter to the Vice-Chancellor.
The range of fines which may be imposed in respect of various categories of breach include:
- Parking in areas not set aside for parking ................. up to $10
- Parking in special service areas, e.g. loading bays, by fire hydrants,
  etc. ................................................................. up to $15
- Failing to display a valid permit ............................ up to $10
- Driving offences — including speeding and dangerous driving ... up to $30
- Failing to stop when signalled to do so by an Attendant (Patrol) .... up to $30
- Refusing to give information to an Attendant (Patrol) ........ up to $30
- Failing to obey the directions of an Attendant (Patrol) ........ up to $30

The Traffic and Parking Regulations are stated in full in the Calendar, Volume I.
Masonry Walls
Load bearing construction methods,
Jointing of dissimilar materials,
Wall thicknesses required by Ordinance 70,
Expansion joints,
Applications of damp proof courses and flashings,
Wall facings in brick, stone, masonry, veneers,
plastering,
Ceramic tiles,
Terracotta,
Applied finishes,
Floors,
Concrete floors on fill and suspended,
Formwork for concrete slabs,
Beams and columns,
Materials used for supporting formworks and stripping methods,
Upper timber floor constructions,
Floor finishes,
Granolythic terrazzo sheet and tile materials.

Roofs
Truss forms and their construction in timber and steel,
Jointings and fastenings,
Ventilation and glazing,
Sheet roof coverings,
Box gutters,
Parapets and verges.

Unit Requirements
The student will be expected to progressively read and carry out a literature research for each of the lectures and to prepare a report, including sketches, on each of the six major subsections of the unit subject and to prepare fully communicative detailed drawings for each subsection.
During the second or third term, depending on the synthesis project working drawings and give detail sheets of the students submission in the C subject is required. The prepared folio of working drawings and details is to be submitted with a report of 3,000 words, typed, fully describing and commenting on the constructional methods used.
Attendance at lectures and studio periods for discussions with lecturers is an essential co-requisite as will be seen from the method of assessment and examination.

Assessment
All assignments and submissions will be assessed and marked by the lecturer who will award marks in percentages for:
(a) Each of the six assignments.
(b) Working drawings and detail assignment which will have a factor of seven.
(c) Each of the two term tests set.
   (i) The total of the marks so awarded in a, b, and c, will be directly averaged to determine a year’s mark which shall form 60% of the final mark in the subject unit.
   (ii) The final end of year examination percentage mark will form 40% of the final mark in the subject unit.
By adding the resultant marks of (i) and (ii) so will be determined the final mark and grade in the subject unit.

Texts and References
To be advised.
(iii) 212823 ENVIRONMENTAL TECHNOLOGY

Content
Environmental Technology consists of the following sub-units:
(a) 212824 Building Science
(b) 212825 Building Services

(a) 212824 BUILDING SCIENCE

Hours 2 hours per week
Content Lectures, seminars, laboratory work and field survey studies in the assessment of the thermal environment, natural ventilation and solar radiation control.
Assessment Students' grading in the subject will be based upon 60% progressive assessment for assignments and seminars presented throughout the year, and 40% for an end of year examination.

Texts
Giovoni, B. Man, Climate and Architecture (Elsevier 1969)
Commonwealth Experimental Building Station, Sydney. Technical Studies:
No. 24 Climate and House Design
No. 26 Selected Australian Climate Data for use in Building Design
Bulletins:
No. 3 Climate and House Design
No. 6 Designing Houses for Australian Climate
Notes on the Science of Building:
No. 1 Design for Climate — Hot, Arid & Humid
No. 21 Design for Climate — Temperate Climate
No. 32 Design for Climate — Cold Winter Climate.

References
Bedford, T. Basic Principles of Ventilation and Heating (H. K. Lewis 1948)

(b) 212825 BUILDING SERVICES

Hours 1 hour per week
Content The sub-unit extending over 3 terms continues the investigation of Building Services. This section investigates the following:
1. Electrical services
2. Gas services
3. Communication services
4. Vertical and Horizontal Transport Services
5. Helio-thermal Services and the energy-efficient building

Sub-Unit Requirements
Assignments are set which involve the submission of research reports, diagrams, sketches, etc. of services under investigation. Students are expected to complement the course by personal investigation of and consequent reporting on selected examples of service installation. Students are expected to produce a complete set of services layouts to complement a current design project.

Assessment
The results of set projects are used to produce a progressively assessed result for the sub-unit. No formal examination is offered. The result produced is averaged with that for lighting/acoustics sub-unit to form 1/3 of the total result for Architecture II B along with structures and construction.

Texts and References
To be advised.

212840 Architecture IIC

Prerequisite Architecture IC
Corequisites Architecture IIA and IIB

Hours 6 hours per week
Content Design projects
Assessment Progressive assessment of project submissions.

213800 Architecture IIIA

Prerequisite Architecture IIA

Hours See individual unit requirements
Content See individual unit requirements
Assessment See individual unit requirements

Content Architecture IIIA consists of the following units:
(i) 213801 Visual Studies
(ii) 213802 Data Processing
(iii) 213804 Man Environment Studies

(i) 213801 VISUAL STUDIES

Hours 2 hours per week
Content Projects will include:
Term 1
A. Photography
B. Building Detail Project

Term 2
B. Continued
C. Life Drawing and Man/Space Projects

D. Visual Aspects of Architecture
E. Light/Kinetics
Unit Requirements
(a) Weekly Studio and/or Field Sessions will be held.
(b) Submissions:
   The work carried out in the various projects will be submitted as required.

Assessment
Each Project will have a percentage value as follows:
A — 12½%
B — 50%
C — 12½%
D — 12½%
E — 12½%
The marks awarded will be used as the basis to determine the Final Mark and Grade for the Unit - however, the development of a student may also be taken into account, and consequently a student may be requested to resubmit all or part of the year's work for review at the end of Term 3.

Texts and References
There are no texts recommended for this unit. A reading list will be issued to students enrolled in this unit at the beginning of first term.

(ii) 213802 DATA PROCESSING
Content
Data Processing consists of the following sub-unit:
(a) 213803 Statistics

(a) 213803 STATISTICS
Hours
2 hours per week over half the academic year

Content
1. Sampling Theory
2. Estimation Theory
3. Tests of Hypothesis
4. Computer Applications

Sub-Unit Requirements
Lectures, tutorials and assignments.

Assessment
Progressive assessment based on tutorials, class tests and examinations. Details to be advised.

Text

References
Clark, T. C. & Schkade, L. L. Statistical Methods for Business Decisions (South-Western)
Freund, J. F. Statistics — A First Course (Prentice-Hall)
Maxwell, E. A. Introduction to Statistical Thinking (Prentice-Hall)
Neter, J. & others Fundamental Statistics for Business and Economics (Allyn & Bacon)
Sherlock, A. J. An Introduction to Probability and Statistics (Edward Arnold)
Spence, P. Statistics in Action (Penguin)
Weaver, W. Lady Luck — The Theory of Probability (Penguin)

(iii) 213804 MAN ENVIRONMENT STUDIES
Content
Man Environment Studies consists of the following sub-units:
(a) 213805 Social Sciences
(b) 213806 History of Architecture

(a) 213805 SOCIAL SCIENCES
Hours
1 hour per week

Content
This subject extends and complements the Social Sciences course of the previous year by studying the effects of the built environment on individuals and communities. Architectural psychology examines questions of colour, space and place while sociological problems of group dynamics illustrate how far Architecture goes beyond the disciplines of art, building and business. The course is modified as new ideas derived from competitions, visiting lecturers or conferences arise. The papers throughout the year reinforce the direction of the lectures, although students are free at any time to select their own topic as interest or occasion demands - so long as their choice is directly applicable to architecture. The courses aim to strengthen the students' independence of thought, to trust their intuitive appreciation of the built environment and to encourage the logical formulation of positions they might take. The term papers should be seen as introductory exercises to the architectural research elective offered in the second degree course.

The aim of both streams of Social Sciences is to unite the immaterial and physical aspects of architecture and to emphasise the primacy of human over technological values, without denying either. However, the impulses of the whole man, his search for the divine, his need of community, personal identity and respect, physical well-being and shelter are inseparable from the profession of architecture.

The changing conditions of the profession and means of adaptation are discussed. Social Science projects are set in conjunction with those of Architectural Design and cover the preparation of architectural briefs, feasibility studies and post completion-post occupancy evaluation. These introduce the student to the breadth of the advisory service required of architects as offices move into project management.

Assessment
Term papers and seminar.

References
Hall, E. The Hidden Dimension (London 1969)
Lee, T. Psychology and the Environment (London 1976)
Lynch, K. The Image of the City (MIT 1960)
213806 HISTORY OF ARCHITECTURE

Hours 1 hour per week

Content The course includes a survey of developments occurring in the 19th Century and the evolution of the Modern Movement in the 20th Century.

Included in the course is a commentary on contemporary colonial developments especially those in N.S.W. and Australia.

Assessment Two essays, each of equal weighting

References
Boyd, R. The Puzzle of Architecture (Melbourne University Press 1965)
Freeland, J. J. Architecture in Australia: A History (Cassell, Melbourne 1968)
Giedion, S. Space Time and Architecture (Harvard University Press 1962)
Le Corbusier Towards a New Architecture (Melbourne University Press 1962)
Pevsner, N. Pioneers of Modern Design (Pelican Books)
Wright, F. L. Writings & Buildings (Horison Press)
The Open University: History of Architecture and Design 1890-1939 Units 1-22

213820 Architecture IIIB

Prerequisite Architecture IIIB

Hours See individual unit requirements

Assessment See individual unit requirements

Content Architecture IIIB consists of the following units:
(i) 213821 Structures
(ii) 213822 Construction
(iii) 213825 Environmental Technology

(i) 213821 STRUCTURES

Hours 2 hours per week

Content The following areas will be covered:
Review of SAA Building Codes and Material Specifications

Loading Codes, Steel Structures, Cold-formed Structures, Welding Code, High Strength Bolting Code, Lift Code, Crane and Hoist Code, Concrete Structures, Prestressed Concrete, Brickwork Code, Concrete Block Masonry Code, Light Timber Framing Code.

Steel Structures AS1250
Design of Beams, Trusses, Columns and Struts, Tension Members, Design examples. Design Aids — AISC Safe Load Tables for Structural Steel.

Concrete Structures AS1480
Ultimate Strength and Working Stress Methods, Development Length Concept, Design of Slabs, Beams, Columns, Footings, Design examples, Design Aids


Subject Requirements
Lectures, tutorials, assignments and reports.

Assessment
The lecturer will award marks in grades for the assignments and term tests and these will be combined with the marks of the final examination to determine the final mark and grade in the subject.

Text
Cowan, H. J. The Design of Reinforced Concrete (Sydney University Press)

References
Gorenc Steel Designer’s Handbook (Univ. of N.S.W. Press)
Schodeck, D. Structures (Prentice-Hall 1980)
Warner, Rangan Reinfomed Concrete (Pitman 1977) & Hall

(ii) 213822 CONSTRUCTION

Content Construction consists of the following sub-units:
(a) 213823 Construction
(b) 213824 Estimating

(a) 213823 CONSTRUCTION

Hours Lectures: 1 hour up to 2 hours per week
Studio: 1 hour up to 2 hours per week

Content Lectures and assignments covering the following aspects of framed construction as applied to high-rise and heavy industrial buildings:
Performance and maintenance, foundations — footings — building failures, framing systems, bracing, connection of members, basements, floors, walls, roofs, cladding, internal elements and finishes, service installations, fire protection, fire resisting construction, special consideration of industrial building types, control joints, sealants, finishes and performance of materials.

Subject Requirements
Assignments, drawing, reports, and three or four organised field trips.

Assessment
Progressive assessment of assignments. Each assignment will have equal value and the final mark will be the average of marks awarded for the assignments set.
References

Architects’ Detail Sheets
Ornament 70 and N.S.W. Building Regulations
Handbook (Government Printers)
Precast Concrete Recommended Practice
(Concrete Institute of Australia, Sydney)
B.H.P. Structural Steel Design Sheets
(H.P. 1983)
Hodgkinson, A. A Handbook of Building Structure
(ed.) (Architectural Press)
Hodgkinson, A. A Handbook of Building Enclosure
(ed.) (Architectural Press)

(b) 213824 ESTIMATING

Hours 1 hour per week

Content The nature of estimating. Definitions of terms. The contractual and communication network in the building process with reference to basic financial matters. Functions of estimating in project planning, administration and management. Scope and responsibilities of architects providing estimates. Budgets, methods, variations, accuracy and presentation of estimates. Factors influencing building costs. Introduction to cost planning.

Assessment Class assignments 40%
2 hour examination in July 30%
2 hour examination in November 30%

Text Practice Note No. 3A Revised, January 1979
(R.A.I.A.)

References
Ferry, D. J. Cost Planning of Buildings 3rd edn metric
(Crosby Lockwood Staples)
Cordell’s Building Cost Book, New Construction
N.S.W. (Cordell Building Publications)

(iii) 213825 ENVIRONMENTAL TECHNOLOGY

Content Environmental Technology consists of the following sub-units:
(a) 213826 Building Science
(b) 213827 Building Services

(a) 213826 BUILDING SCIENCE

Hours 2 hours per week

Content Lectures, tutorials, seminars, laboratory work and field surveys in the assessment of, and design for, electric lighting, day lighting and architectural acoustics.

Assessment Progressive assessment of assignments, term tests, seminars will constitute a value of 60% of the student's final assessment. The remaining 40% will be based upon an end of year examination.

Texts
British Lighting Council Interior Lighting Design.
Lawrence, A. Acoustics in Building
Parkin, P. H. & Humphreys, H. R. Acoustics Noise and Buildings
Humphreys, H. R. Reference

— I.E.S. Lighting Review (Journal).
Burr, W. Music Acoustics and Architecture
Furrer, W. Room and Building Acoustics and Noise Abatement
Hopkinson, R. G. Architectural Physics: Lighting
Krudsen, V. O. & Harris, C. N. Acoustical Designing in Architecture

(b) 213827 BUILDING SERVICES

Hours 1 hour per week

Content This sub-unit, which is complementary to the Building Services sub-units of Architecture II B and II B, completes an overview of services connected to or located within a building.
It involves an investigation of the following services:
1. Ventilation
2. Air Conditioning and Heating
3. Refrigeration
4. Tenant Transport (lift, escalators)
5. Fire Precautions, Prevention, Control and Detection Systems
6. Dangerous Fuel Storage
7. Emergency Power Systems

Sub-Unit Requirements
Assignments are set which involve the submission of research reports, diagrams, sketches of the services under investigation. Students are expected to complement the formal sessions with personal investigation of and consequent reporting upon selected examples of services installations.

Assessment
The result of the set projects are used to produce a progressively assessed result for the sub-unit. No formal examination is set.
A component of the assessment will be based on the resolution of all building services related to the major Architecture IIC projects for the year.
The overall sub-unit result is averaged with that of the Building Science sub-unit to form 1/3 of the total result in Architecture IIB.

Texts
To be advised
Architecture IIIC

**Prerequisite**
Architecture IIIC

**Corequisites**
Architecture IIIA and IIIB

**Hours**
6 hours per week

**Content**
Design Projects

**Assessment**
Progressive assessment of project submissions

Architecture IVA

**Prerequisites**
Nil

**Hours**
See individual unit requirements

**Content**
Architecture IVA consists of the following units:
(i) 214701 Professional Practice
(ii) 214704 Management for the Architect
(iii) 214705 Law for the Architect

(i) **214701 PROFESSIONAL PRACTICE**

**Hours**
1 hour per week

**Content**
The architecture profession; aims, functions, education, registration, institutes and associations. Architectural services; description, client agreements, fees, briefs, responsibility. Consultants; description, services, agreements, fees, co-ordination. Sequence for a hypothetical project; obtaining commission, correspondence and communications; agreements; briefing; surveys; client and other approvals; project analysis; consultants and cost control; preliminary sketches and estimates; client meetings; minutes; final sketch plans and estimates; preliminary working drawings and schedules; tender documents and procedures; contract documents and formalities; bills of quantities; specifications; consultants' documents; contract administration; clerk of works, inspection, reports, instructions; site meetings and minutes; certificates; checks re bonds, insurances, times etc.; variations; trade detail; P.C. items; provisional sums and nominated sub-contracts; practical and final completion certificates; maintenance and defects liability period; maintenance manuals and work as executed drawings; final accounts. Competitions. Communication; verbal and written expression, letters, reports and specifications. Social patterns; human relationships and judgment, professional ethics, clients professionals, builders, sub-contractors, public and private works, building finance.

(ii) **214704 MANAGEMENT FOR THE ARCHITECT**

**Hours**
2 hours per week

**Content**
Studies are divided into two stages — Series I topics and Series II topics. Each stage requires class and group work involving the investigation, reporting and presentation to class of the following management topics:

Series I
- Communications
- Motivation
- Leadership
- Conflict
- Negotiation

Series II
- Systems Management
- Management by Objectives
- Decision Making Theory
- Organisational Development
- Project Management.

Topic reports and other class work comprise the material on which examinations are based.

**Assessment**
Group assignments selected from Series I topics 20%
Group assignments selected from Series II topics 20%
3 hour examination in July 30%
3 hour examination in November 30%

**References**
Byrt, W. J. Woolams, S. & others Transactional Analysis in Brief (Huron Valley Institute)

(iii) **214705 LAW FOR THE ARCHITECT**

**Hours**
2 hours per week over half the academic year

**Content**
Nature and source of law (including case law and the doctrine of precedent, Commonwealth and State court systems and statute law and statutory interpretation; derivation of the Australian legal system and the Australian federation; "the adversary system"

Assessment
Class assignments 40%
2 hour examination in July 30%
2 hour examination in November 30%

Texts
- R.A.I.A. Practice Notes Student Set (R.A.I.A.)
- Communicating in Writing: Training Handbook
  Public Service Board, Canberra (A.G.P.S.)
- Terms in Practice (R.A.I.A.)
- Handbook of Architectural Practice and Management 4th edn (R.I.B.A.)
- Beaton, Robert
  The Architect and the Law (R.A.I.A.)
- Challis, J. M.
  The Architect and Engineer and their Professional Liabilities (R.A.I.A.)
Assessment

Texts

Chisholm, R. & Nettheim, G. Understanding Law (Butterworths 1974)
Shtein, B. J. L. & Lindgren, K. E. An Introduction to Business Law 3rd edn (Law Book Co. 1977)
Notes supplied by Department of Legal Studies.
Vermeesch, R. B. Business Law of Australia 3rd edn (Butterworths)
& Lindgren, K. E.

214800 Architecture IVB

Prerequisites
Nil

Hours
See individual unit requirements

Assessment
See individual unit requirements

Content
Architecture IVB consists of the following units:
(i) 214801 Construction
(ii) 214802 Specifications
(iii) 214803 Estimating

(i) 214801 CONSTRUCTION

Hours
3 hours per week

Content
(i) Multi-storey Buildings
(ii) Floor Systems
(iii) Prestressed Concrete Structures
Introduction, materials; prestressing systems, end anchorages; loss of prestress; friction; analysis of sections for flexure, shapes of prestressed concrete sections, partial prestress and nonprestressed reinforcements, continuous beams, slabs, design examples, case studies.

(iv) Shell Structures

Assessment
Progressive assessment based on tutorials, studio work, film reviews, examination, projects and site visits. Details to be advised.

References
ASCE-IABSE Publications on Tall Buildings (1980)
Salvadori, M. & Heller, R. Structure in Architecture (Prentice-Hall)
Schodeck, D. Structures (Prentice-Hall 1980)
Schueller, W. High Rise Building Structures (Wiley Interscience 1977)

(ii) 214802 SPECIFICATIONS

Hours
1 hour per week

Content

Assessment
Class assignments 40%
2 hour examination in July 30%
2 hour examination in November 30%

Tests
Norman, D. A. Specifications 2nd edn (R.A.I.A.)
Standen, D. Terms in Practice (R.A.I.A.)

References
Lillyman, G. M. Building Industry Reference Specification (Murray)

(iii) 214803 ESTIMATING

Hours
1 hour per week

Content
Introduction to the financial control of building at all stages of design and construction; the financial management and completion of a project within a specific initial budget. This includes the coverage of:
1. Basic estimating — examples normally encountered in architects' offices.
2. Consultants — utilisation of their services with particular reference to available quantity surveying services.
3. Input and use of cost control from pre-design budget to the completion stage of a project.
4. Tendering systems used by the building industry. Information required and results expected.
5. Introduction to contract conditions relevant to cost control and administration.

**Assessment**

<table>
<thead>
<tr>
<th>Class assignments</th>
<th>20%</th>
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<tbody>
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<td>40%</td>
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</tbody>
</table>

**References**

- The Building Economist (Journal of the Australian Institute of Quantity Surveyors)
- Builder N.S.W. (Official Journal of the Master Builders Association of N.S.W.)
- Cordell's Building Cost Book, New Construction N.S.W. (Cordell Building Publications)
- Rawlinson's Australian Construction Handbook (Rawlhouse Publishing)

### 214900 Architecture IVC

**Prerequisites**

Nil

**Corequisites**

Architecture IVA and IVB

**Hours**

6 hours per week

**Content**

Design projects

**Assessment**

Progressive assessment of project submissions

### 215500 Architecture VA

**Prerequisite**

Architecture IVA

**Hours**

See individual unit requirements

**Assessment**

See individual unit requirements

**Content**

Architecture VA comprises the following units:

(i) 215501 Professional Practice
(ii) 215502 Management for the Architect
(iii) 215503 Law for the Architect

### (i) 215501 PROFESSIONAL PRACTICE

**Hours**

1 hour per week

**Content**

Traditional and non-traditional modes of practice; various architect/client/builder relationships and contracts; interaction with other professional consultants; prescribed curriculum of preparation for Board of Architects' examination (prerequisite to registration after meeting practical experience requirements); private practice and employment opportunities; traditional and non-traditional role opportunities including specialisation; development of individual skills and interests; and preparation for change in the practice of architecture, the operation of the industry, and the attitudes of society.

**Assessment**

3 hour examination in November (combined with 215502 Management for the Architect)

Management and Practice are assessed conjointly on the bases of a formal examination at the end of the year (30%); a major group research project in mid-year (30%); class participation, topical quizzes and assignments throughout the year (40%).

**References**

- Psychological Testing 2nd edn (Allyn & Bacon, Boston 1979)
- Pre-Planning for Better Building Performance (West, Sydney 1974)
- The Use of Lateral Thinking (Cape, London 1968)
- Teaching Thinking (Penguin 1978)
- An Introduction to Critical Path Analysis (Pitman, London 1967)
(iii) 215503 LAW FOR THE ARCHITECT

Hours 2 hours per week over half the academic year

Content Commercial arbitration and the Arbitration Act 1902; Parts XI-XIIb of the Local Government Act 1919 (NSW) and the general nature and structure of town-planning schemes in N.S.W.; a detailed study of the standard forms of building contract in use in N.S.W.; aspects of the law relating to copyright in architects' drawings and plans; the Architects Act 1921 (NSW); the Builders' Licensing Act 1973 (NSW).

Assessment To be advised

References To be advised.

215520 Architecture VB

Prerequisites Architecture IVB

Hours See individual unit requirements

Assessment See individual unit requirements

Content Architecture VB consists of the following units:

(i) 215521 Construction
(ii) 215522 Specifications
(iii) 215523 Estimating

(i) 215521 CONSTRUCTION

Hours 3 hours per week

Content Architecture IVB submissions indicated architectural preferences in the manipulation of forms and spatial organisation which is but a short way along the path in the development of a scheme to erect a building and have it perform in a predictable fashion over a number of years in a manner acceptable to the owners' and occupants' expectations.

The performance of the building is directly related, in real terms, to the building's cost effectiveness over its life cycle. A great proportion of the cost effectiveness will depend on material selection, the fixing and anchoring devices and structural and construction adequacy.

As money is just as much a resource as minerals or energy, it too must be husbanded if its full potential is to be realised and is not to be frittered away on what could be unnecessary and avoidable maintenance.

The assignment for the first half of the year is to be an evaluation of the structural and constructional themes inherent in the proposal together with detailed construction details and specified report including an outline anticipated performance and maintenance report.

During the period of the assignment each student will be required to give at least two seminars; one on the evaluation of the original submission and the other two on aspects of the developed structural and constructional proposals. These seminars will be taken into account in the final assessment mark for the assignment.

(ii) 215522 SPECIFICATIONS

Hours 1 hour per week

Content Detailed analysis of guide and master specifications for a range of building types from simple to complex construction. Review of preliminaries, all trade sections, services specifications, specification for nominated subcontractors and specialist works. Case studies and exercises in specification analysis, writing and production. Performance specifications, dimensional co-ordination, computer techniques, word processing and production. Building methods and products.

Assessment Class assignments 40%

Texts

References
Australian Building Specification 1984 edn

(iii) 215523 ESTIMATING

Hours 1 hour per week

Content Continuation and development of work undertaken in Unit 214803, Estimating. This includes the coverage of:
1. Detailed programming procedure for contract administration.
2. Detailed analysis of costs related to the administration of rise and fall, progress claims, variations, time claims.
3. Analysis of tenders and identification of information requirements.
4. Case study of a cost planned building.
5. Techniques for finalising the costs of a project; defects liability period, final accounts, final certificate.

Assessment Class assignments 20%

Texts
The Building Economist (Journal of the Australian Institute of Quantity Surveyors)
Builder N.S.W. (Official Journal of the Master Builders Association of N.S.W.)
215540 Architecture VC

Prerequisites

Architecture IVC

Corequisites

Architecture VA and VB

Hours

6 hours per week

Content

Design Projects

Assessment

Progressive assessment of project submissions

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ELECTIVES OFFERED BY THE DEPARTMENT OF ARCHITECTURE

216005 Architectural Research

Hours

5 hours per week

Content

The objective of this elective is to allow a student to carry out a piece of individual study in an area of particular interest to a depth not normally possible elsewhere in the course. The student may choose an area of study from among those offered by individual lecturers in the Department, being generally:

(a) History of Architecture
(b) Theory of Architecture
(c) Visual Studies
(d) Building Science
(e) Architectural Practice and Management
(f) Urban Design, including History and Theory of Urbanism
(g) Structural Engineering
(h) Computing
(i) Construction.

The form of the elective demands a considerable level of initiative from the student to pursue the line of study under the general guidance of a research tutor.

Assessment

Submission of material at end of year, generally in the form of an A4 thesis report, bound in black buckram with author’s surname, title of subject, “U of N”, and year printed in gold leaf lettering on front and spine. Students are reminded that this document becomes the property of the University.

216018 Landscape Design

Hours

5 hours per week

Content

This subject will provide an opportunity for understanding Landscape and the design process and the construction techniques used in the Landscape industry. The emphasis will be on the altered landscape, man’s apparent needs and his relationship to his environment. The “man-made” landscape is a product of pressure and changes brought about by agriculture, religion, shelter, industry, travel and recreation and one of our aims will be the understanding of these changes and the potential influence of the designer on their impact on the environment.

The programme will be developed to include —

a. Site appraisal techniques
b. Development of design analysis methods
c. Study of natural elements as design components
d. Study of the built environment, materials and techniques
e. Practical application of skills acquired, by developing proposals for specific problems.

The materials and techniques of construction will be studied in detail and through this study an appreciation will be developed of the controls and requirements of the built environment. A vocabulary of construction details and their appropriate application will be built up through a study of a variety of examples in the studio and through field trips to landscape projects.

Practical examples of completed works will be discussed and related assignments presented to allow a steady development of design ability. Observation and recording exercises will be used to provide readily available methods of establishing physical site data.
Lectures will be given on specific elements and wherever possible they will be illustrated by slide material or drawings. Studio sessions will be allotted to student design development of specific assignments both singly and in groups.

Some field trips are scheduled and these will include visits to landscape projects, and investigation of particular materials, techniques and environments.

A report on each field trip will be required.

Some attention will be given to relating the design studies to other subjects, particularly Architecture C-stream subjects.

Assessment
Examination is based on assignments which will vary from short exercises to more comprehensive take home studies. The majority of assignments will be marked and the final mark for each term arrived at using these marks and marks for class participation. Investigation and experimentation and working with others will be encouraged allowing maximum freedom of design thought and the steady development of individual skills.

Texts and References
To be advised

216012 Urban Design A

Hours
5 hours per week

Content
The elective aims to provide an introduction to the concepts and theories of urban design and to the background of town planning practice in Australia; to develop an understanding of the processes which shape urban environments and a familiarity with the techniques available for their analysis; and to consider alternative patterns of development possibilities within an existing urban context.

An initial lecture course and study of source material is followed by a field study and finally a design project based around an urban intervention in an existing area of Newcastle. Work is carried out partly in groups and partly on an individual basis.

Assessment
Submissions made during the course of the year.

Text
Gosling, D. & Maitland, B. S.

References
Alexander, C. et al.
Cullen, G.
Jacobs, J.
Krier, R.
Lynch, K.
Mumford, L.
Rowe, C. & Koetter, F.
Venturi, R. et al.

Concepts of Urban Design (Academy Editions 1984)
A Pattern Language (Oxford University Press 1977)
Townscape (Architectural Press 1961)
The Death and Life of Great American Cities (1961)
Urban Space (Academy Editions 1979)
The Image of the City (MIT Press 1960)
The City in History (Penguin Books 1961)
Collage City (MIT Press 1980)
Learning from Las Vegas (MIT Press 1972)

216003 Urban Design B

Hours
5 hours per week

Content
The student will examine some aspect of the urban environment and initiate a design project which explores its implications.

Assessment
Submission of project work and supporting documentation at end of year.

Texts and References
To suit the chosen project.
Subject Computer Numbers for Architecture Courses

The subjects selected should be written on the enrolment form in the following manner.

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<th>Subject Name</th>
<th>Computer Number</th>
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<td>(Part-time 1)</td>
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<td>(Part-time 2)</td>
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213800 Architecture IIIA

213801 Visual Studies
213802 Data Processing
213803 Statistics
213804 Man Environment Studies
213805 Social Sciences
213806 History of Architecture

213820 Architecture IIIB

213821 Structures
213822 Construction
213823 (A) Construction
213824 (B) Estimating
213825 Environmental Technology
213826 Building Science
213827 Building Services

213840 Architecture IIIIC

213800 Elective III

Electives Offered by the Department of Architecture

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