FACULTY OF ARCHITECTURE
HANDBOOK 1976

THE UNIVERSITY OF NEWCASTLE
NEW SOUTH WALES 2308
Telephone — Newcastle 68 0401
One Dollar
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Faculty of Architecture

The colour band on the spine of this Handbook is the lining colour of the hood worn by Bachelors of Architecture of this University.

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Faculty of Architecture

Dean
Professor E. C. Parker

Sub-Dean
S. C. Morton

Faculty Secretary
R. J. Archer

Professor
E. C. Parker, HonMArch, ASTC, FRAIA

Associate Professor
R. M. Deamer, MArch, ASTC, FRAIA

Senior Lecturers
H. G. Appleby, MArch; DipTCP(Sydney), FRAIA
N. H. Clouten, BArch(Sydney), MArch(Ohio State), PhD(Edinburgh), FRAIA, ARIBA
E. L. Harkness, BArch, MBdgSc(Sydney), ARAIA

Lecturers
H. C. Clarke, BArch(Auckland), ARAIA, ARIBA, ANZIA
R. J. Donaldson, BArch, ARAIA, ARIBA
P. Drew, BArch(New South Wales)
S. C. Morton, ASTC, FRAIA, ARIBA, MRAPI
M. F. Park, BArch(New South Wales), ASTC, ARAIA

Senior Tutor
A. H. Chowdhury, BScEng(Civ)(East Pakistan Engineering & Technology), MS, PhD(Cornell), AMASCE, MACI, MIAHS

Departmental Secretary
Vicki Lloyd

TECHNICAL STAFF

Technical Officer
P. J. Thomas

Laboratory Craftsman
D. W. H. Mudway

Laboratory Assistant
P. R. Muller
Part-time Teaching Staff

W. Ashton BArch(Sydney)
D. N. Binh BEng(Mech)
M. G. Burkett Interior Designer
I. Eckford BArch, ARAIA
C. R. Filmer BSc(Arch), BArch
A. J. Guy FRAIHS
L. T. Khoa BEng(Mech)
D. McKenzie ASTC, ARAIA
P. Myers BArch(New South Wales), ARAIA
I. E. Eckford BArch,· ARAIA
C. R. Filmer BSc(Arch), BArch
A. J. Guy FRAIHS
L. T. Khoa BEng(Mech)
D. McKenzie ASTC, ARAIA
P. Myers BArch(New South Wales), ARAIA
I. E. Eckford BArch,· ARAIA
C. Resovsky BEng, MBldgSc, ASTC
Y. M. Tjong BEng

Servicing Staff

L. W. B. Browne BE(Sydney), PhD
G. Cowper-Hill LLB(Bristol)
J. G. Fryer BSurv, PhD(New South Wales), LS, MISAust
R. W. Gibbins BCom(Queensland), ASA
P. W. Kleeman BE(Adelaide) FSASM
D. Mitchell BA, LLB(Australian National)
T. Presbury LLB(Sydney)
J. A. Ramsey MSc(Melbourne), PhD, FAIP
M. E. Spautz MA, PhD(California Los Angeles)

Visiting Staff

G. Cutcher Cutcher & Neale, Accountants, Newcastle.
A. Disney Norman, Disney & Young Pty Ltd, Consulting Engineers, Sydney.
P. Edmonds Rawlinson, Edmonds & Partners Pty Ltd, Quantity Surveyors, Sydney.
J. Hardy Technical Officer, Timber Development Association, Sydney.
Dr M. Herman BArch(Sydney), MArch(Melbourne), Hon DLitt, LFRAIA, Architect and Architectural Historian, Sydney.
K. McDonald Director, Urban Systems Corporation Pty Ltd, Sydney.
A. McKillop BSc(London), Energy Consultant, British Columbia Hydro Authority.
V. McGovern Architect, Newcastle.

R. Morrison Assistant Lecturer, Newcastle College of Advanced Education.
R. Parker Principal, R. T. Parker Pty Ltd, Master Builder, Newcastle.
D. Phillips District Architect, Department of Public Works, Newcastle.
K. Rice Fombertaux, Rice, Hanley Pty Ltd, Architects, Sydney.
B. J. Suters BArch(New South Wales), ASTC, Brian Suters & Associates Pty Ltd, Architects, Newcastle.
A. Snodgrass Lecturer in Asian Art and Architecture, Sydney.
T. Tressider Industrial Design Council of Australia, Sydney.
J. Werrick Lecturer on Walter Burley Griffin and Castelcrag and Recipient of one year grant from the Australian Council.
J. Wyatt Architect, Newcastle.

External Examiners

B.Sc.(ARCH.) COURSE
L. P. Kollar Associate Professor in Architecture, University of New South Wales.
B.Arch. COURSE
C. Robertson Professor of Architecture, University of Melbourne.

This schedule lists the names of those who were associated with the Department of Architecture in 1975. Some changes are anticipated in 1976.
Location
The Faculty of Architecture functions in a self-contained building on the University's Shortland campus where it is located across the western footbridge from the Library and Union over the ring road and adjacent to the Metallurgy building. The nearest general car park is west 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 680401.
The Departmental Office extension number is 361.

General Information
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 entitled to be registered as architects under the New South Wales Architects Act (No. 8, 1921, as amended) and the Regulations under that Act as amended. 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.

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.

Advisory Prerequisites for Entry to the Bachelor of Science (Architecture) in 1976 and 1977
Students intending to enter the Faculty of Architecture will find the Building Science and Structures content of the undergraduate course offered by the Faculty easier to handle if:
(a) at the 1975 Higher School Certificate examination they have attempted the second level short course in Mathematics and Science;
(b) at the 1976 Higher School Certificate examination they have attempted at least 2 units of Mathematics, 2 units of Physics and 2 units of Chemistry. The multistrand 4 unit Science course is a suitable alternative to the Physics and Chemistry mentioned above.
However, students who have not studied these subjects but who satisfy the matriculation requirements of the University will still be eligible for entry to the Faculty and should be able to handle the subjects offered by the Faculty.

Student Representation in Faculty Affairs
Provision is made for student representatives to be elected to the Departmental Committee and the Faculty Board of the Faculty. The Faculty Board has responsibility for the teaching and research activities of the Faculty and determines such examinations as may be held within the Faculty.
The Departmental Committee considers any matters related to the academic and other activities of the Department of Architecture referred to it by its members or by the Faculty Board, Faculty of Architecture and reports or make recommendations as it sees fit to the Head of the Department of Architecture or the Faculty Board as may be appropriate.

Financial Assistance
Financial assistance is available to full-time students attending the University subject to certain conditions. Information on these conditions is available from Student Administration.

Selection for Admission
Selection for admission to the Faculty of Architecture is competitive and is based primarily upon academic merit judged by reference to the results achieved at the Higher School Certificate (or equivalent) examinations.
Criteria for the Award of the Degree with Merit and Honours

(a) **Condition for the Award of the B.Sc(Arch.) degree with Merit.**
   To be eligible for consideration for the award of the degree of B.Sc.(Arch.) with Merit, a student's averaged results in all subjects of that course should be of credit grade or above and there should be no continuing record of failure in any subject.

(b) **Condition for the Award of the B.Arch. degree with Honours.**
   To be eligible for the award of the degree of Bachelor of Architecture with Honours, a student's averaged results in all subjects of that course shall be of credit grade or above and there shall be no record of failure in any subject.

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

**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 Architecture IB, Architecture IIB and Architecture IIIIB.

**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.

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

Drawing Office Equipment

Each student should acquire the following essential equipment prior to commencing the course:

- A double elephant drawing board for home use with tee square to match.
- 12" adjustable set square.
- Set of drawing instruments including spring bows and a pair of 6" compasses adaptable for pencil, pen and divider attachments.
- 12" architectural (not engine divided) composition scale with 1:100, 1:50; 1:20 and 1:10 scales.
- Ruling and freehand pens, pencils varying from hard (H) to soft (B).
- Water and poster colours.
- One 6' steel tape, combined for inches and metric.
- Steel erasing shield.
- Dusting brush.

Conditions for the Granting of Standing as determined by the Faculty Board, Faculty of Architecture pursuant to clause 11 of B.Sc.(Arch.) and Clause 12 of the B.Arch degree requirements

(a) Subject to the approval of the Dean of the Faculty of Architecture, standing may be granted in a subject, subject-unit or subject sub-unit in recognition of work completed in another course in this University or any other tertiary institution.

(b) For the purpose of determining eligibility for the award of a degree with merit in the case of the B.Sc(Arch.) degree or with honours in the case of the B.Arch. degree, of students admitted to either degree course with standing, results of those subjects completed within the University of Newcastle, N.S.W., only shall be taken into account in accordance with the relevant degree requirements.

Student Progression

As indicated in the degree requirements and the schedule of subjects, students proceed by subject rather than by year. 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 unit or sub-unit of that subject in which he has passed. The student who has failed a subject should consult the Head of the Department to determine whether any standing will be granted in units/sub-units of that subject.

Academic Dress

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

Gowns

(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**
Men — a black cloth trencher cap
Women — 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.

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STUDENTS ENROLLED UNDER DEGREE REQUIREMENTS INTRODUCED IN 1973 SHOULD CONSULT THE 1975 FACULTY HANDBOOK

**REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE (ARCHITECTURE)**

1. **Definitions**
In these Requirements, unless the contrary intention appears, “the Faculty” means the Faculty of Architecture and “the Faculty Board” means the Faculty Board of the Faculty of Architecture.

2. **Timetable Requirements**
No candidate may enrol in any year for any combination of subjects which is incompatible with the requirements of the timetable for that year.

3. **Annual Examinations**
The Annual Examinations shall normally be held at the end of Third Term.

4. **Special Examinations**
A candidate may be granted a special examination in accordance with the provisions of By-law 5.9.3.

5. **Examination Grades**
The results of successful candidates at Annual Examinations and Special Examinations shall be classified:
- Pass, Credit, Distinction, High Distinction.

6. **Grading of Degree**
The degree of Bachelor of Science (Architecture) may be conferred as an ordinary degree or as a degree with merit.

7. **Relaxing Clause**
In order to provide for exceptional circumstances arising in particular cases, the Senate, on the recommendation of the Faculty Board, may relax any requirement.

8. **Qualification for Degree**
To qualify for the degree, a candidate shall:
(a) pass the subjects prescribed in Schedule A; and
(b) satisfy the Elective Requirements prescribed in Schedule B.

9. **A Subject**
   (a) To complete a subject qualifying towards the degree, hereinafter called a subject, a candidate shall attend such lectures, tutorials, seminars, laboratory classes and field work and submit such written work as the Department concerned shall require.
   (b) To pass a subject a candidate shall satisfy the requirements of the previous clause and pass such examinations as the Faculty Board concerned shall require.

10. **Prerequisites and Corequisites**
   (a) A candidate shall not enrol in a subject for which a prerequisite subject or subjects is prescribed without having passed any such prerequisite subjects or having been granted standing in them.
   (b) A candidate shall not enrol in a subject for which a corequisite subject or subjects is prescribed unless he is enrolling concurrently in any such corequisite subjects prescribed.
   (c) A candidate shall not enrol in a Part III subject until he has passed all Part I subjects prescribed for the course.

11. **Standing**
    A candidate may be granted such standing in the course in recognition of work completed in another course, faculty or tertiary institution as may be determined by the Faculty Board.

12. **Withdrawal**
    (a) A candidate may withdraw from a subject or course only by informing the Secretary to the University in writing and the withdrawal shall take effect from the date of receipt of such notification.
    (b) A candidate who withdraws after the sixth Monday in second term from a subject in which he has enrolled shall be deemed to have failed in the subject save that, after consultation with the Head of Department concerned, the Dean may grant permission for withdrawal without penalty.

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**SCHEDULE OF SUBJECTS — SCHEDULE A**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part I</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture IA</td>
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<td>Architecture IA</td>
</tr>
<tr>
<td>Architecture IB</td>
<td></td>
<td>Architecture IB</td>
</tr>
<tr>
<td>Architecture IC</td>
<td></td>
<td>Architecture IA and Architecture IB</td>
</tr>
<tr>
<td>Elective I</td>
<td>See Schedule B</td>
<td></td>
</tr>
<tr>
<td><strong>Part II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture IIA</td>
<td>Architecture IA</td>
<td></td>
</tr>
<tr>
<td>Architecture IIB</td>
<td>Architecture IB</td>
<td></td>
</tr>
<tr>
<td>Architecture IIC</td>
<td>Architecture IC</td>
<td>Architecture IIA or Architecture IIB</td>
</tr>
<tr>
<td>Elective II</td>
<td>See Schedule B</td>
<td></td>
</tr>
<tr>
<td><strong>Part III</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture IIIA</td>
<td>Architecture IIA</td>
<td></td>
</tr>
<tr>
<td>Architecture IIIB</td>
<td>Architecture IIB</td>
<td></td>
</tr>
<tr>
<td>Architecture IIIC</td>
<td>Architecture IIC</td>
<td>Architecture IIIA or Architecture IIIB</td>
</tr>
<tr>
<td>Elective III</td>
<td>See Schedule B</td>
<td></td>
</tr>
</tbody>
</table>

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**SCHEDULE OF SUBJECTS — SCHEDULE B**

**ELECTIVE REQUIREMENTS**

**Elective I**
A candidate shall select a subject or subjects offered by a Department other than the Department of Architecture and approved by the Dean.

**Elective II**
A candidate shall either
(a) select a subject or subjects offered by a Department other than the Department of Architecture but not previously passed as Elective I and approved by the Dean; or
(b) provided that he has passed Architecture IC, select a subject from one of the following:

**Elective III**

A candidate shall either

(a) select a subject or subjects offered by a Department other than the Department of Architecture but not previously passed as either Elective I or Elective II and approved by the Dean; or

(b) provided that he has passed Architecture IIC, select a subject from one of the following provided that a subject marked with an asterisk may not be chosen if it has already been passed as Elective II.

**Note:** Not all electives listed will necessarily be offered in any one year.

**Subject Corequisites**

Visual Studies
Data Processing
Man Environment Studies
Structures
Construction
Environmental Technology
Synthesis
Landscape Design
Interior Design
Decorative Building Elements

**Subject Corequisites**

*Visual Studies
*Data Processing
*Man Environment Studies
Structures
Construction
Environmental Technology
Synthesis
Urban Design A
Fine Arts
Australian Architecture
*Landscape Design
*Interior Design
*Decorative Building Elements

**REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARCHITECTURE**

1. **Definitions**

   In these Requirements, unless the contrary intention appears, "the Faculty" means the Faculty of Architecture and "the Faculty Board" means the Faculty Board of the Faculty of Architecture.

2. **Registration as a Candidate**

   (a) An application to register as a candidate for the degree shall be made on the prescribed form and lodged with the Secretary by the closing date indicated.

   (b) To be eligible for registration as a candidate an applicant shall —

   (i) have satisfied all requirements for admission to the degree of Bachelor of Science (Architecture) in the University of Newcastle; or

   (ii) have satisfied all requirements of another university for an equivalent qualification approved for this purpose by the Faculty Board; or

   (iii) in exceptional circumstances hold such other academic and professional qualifications as may be approved by Senate on the recommendation of the Faculty Board.

3. **Timetable Requirements**

   No candidate may enrol in any year for any combination of subjects which is incompatible with the requirements of the timetable for that year.

4. **Annual Examinations**

   The Annual Examinations shall normally be held at the end of Third Term.

5. **Special Examinations**

   A candidate may be granted a special examination in accordance with the provisions of By-law 5.9.3.

6. **Examination Grades**

   The results of successful candidates at Annual Examinations and Special Examinations shall be classified:

   Pass, Credit, Distinction, High Distinction.

7. **Grading of Degree**

   The degree of Bachelor of Architecture may be conferred as an ordinary degree or as a degree with honours.
8. **Relaxing Clause**
In order to provide for exceptional circumstances arising in particular cases, the Senate, on the recommendation of the Faculty Board, may relax any requirement.

9. **Qualification for Degree**
To qualify for the degree, a candidate shall:
(a) pass the subjects prescribed in Schedule C; and
(b) satisfy the Elective Requirements prescribed in Schedule D.

10. **Prerequisites and Corequisites**
(a) A candidate shall not enrol in a subject for which a prerequisite subject or subjects is prescribed without having passed any such prerequisite subjects or having been granted standing in them.
(b) A candidate shall not enrol in a subject for which a corequisite subject or subjects is prescribed unless he is enrolling concurrently in any such corequisite subjects prescribed.

11. **A Subject**
(a) To complete a subject qualifying towards the degree, hereinafter called a subject, a candidate shall attend such lectures, tutorials, seminars, laboratory classes and field work and submit such written work as the Department concerned shall require.
(b) To pass a subject a candidate shall satisfy the requirements of the previous clause and pass such examinations as the Faculty Board concerned shall require.

12. **Standing**
A candidate may be granted such standing in the course in recognition of work completed in another course, faculty or tertiary institution as may be determined by the Faculty Board.

13. **Withdrawal**
(a) A candidate may withdraw from a subject or course only by informing the Secretary to the University in writing and the withdrawal shall take effect from the date of receipt of such notification.
(b) A candidate who withdraws after the sixth Monday in second term from a subject in which he has enrolled shall be deemed to have failed in the subject save that, after consultation with the Head of Department concerned, the Dean may grant permission for withdrawal without penalty.

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**SCHEDULE OF SUBJECTS — SCHEDULE C**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part IV</td>
<td></td>
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</tr>
<tr>
<td>Architecture IVA</td>
<td></td>
<td>Architecture IVA or Architecture IVB</td>
</tr>
<tr>
<td>Architecture IVB</td>
<td></td>
<td>Architecture IVB</td>
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<tr>
<td>Architecture IVC</td>
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<td></td>
</tr>
<tr>
<td>Elective IV</td>
<td>See Schedule D</td>
<td></td>
</tr>
<tr>
<td>Part V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture VA</td>
<td>Architecture IVA</td>
<td></td>
</tr>
<tr>
<td>Architecture VB</td>
<td>Architecture IVB</td>
<td></td>
</tr>
<tr>
<td>Architecture VC</td>
<td>Architecture IVC</td>
<td>Architecture VA or Architecture VB</td>
</tr>
<tr>
<td>Elective V</td>
<td>See Schedule D</td>
<td></td>
</tr>
</tbody>
</table>

**SCHEDULE OF SUBJECTS — SCHEDULE D**

**ELECTIVE REQUIREMENTS**

**Elective IV**
A candidate shall either
(a) select a subject or subjects offered by a Department other than the Department of Architecture but not previously passed as Elective I, Elective II or Elective III in the course leading to the degree of Bachelor of Science (Architecture) and approved by the Dean; or
(b) select a subject from one of the following, provided that a subject indicated by an asterisk may not be chosen if it has already been passed as Elective II or Elective III in the course leading to the degree of Bachelor of Science (Architecture):

<table>
<thead>
<tr>
<th>Subject</th>
<th>Corequisites</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Visual Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Data Processing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Man Environment Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structures</td>
<td>Architecture IVB</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Architecture IVB</td>
<td></td>
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<tr>
<td>Environment Technology</td>
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<td></td>
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<tr>
<td>Synthesis</td>
<td>Architecture IVC</td>
<td></td>
</tr>
<tr>
<td>*Urban Design A</td>
<td></td>
<td>Urban Design A</td>
</tr>
<tr>
<td>Urban Design B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Elective V**

A candidate shall either

(a) select a subject or subjects offered by a Department other than the Department of Architecture but not previously passed as Elective I, Elective II or Elective III in the course leading to the degree of Bachelor of Science (Architecture) or Elective IV, and approved by the Dean; or

(b) (provided that he has passed Architecture IVA or Architecture IVB). Select a subject from one of the following, provided that a subject indicated by an asterisk may not be chosen if it has already been passed as Elective II or Elective III in the course leading to the degree of Bachelor of Science (Architecture) or Elective IV:

<table>
<thead>
<tr>
<th>Subject Corequisites</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Visual Studies</td>
<td>Architecture IVB</td>
</tr>
<tr>
<td>*Data Processing</td>
<td>Architecture IVB</td>
</tr>
<tr>
<td>*Man Environment Studies</td>
<td>Architecture IVB</td>
</tr>
<tr>
<td>Structures</td>
<td>Architecture IVB</td>
</tr>
<tr>
<td>Construction</td>
<td>Architecture IVB</td>
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<tr>
<td>Environmental Technology</td>
<td>Architecture IVB</td>
</tr>
<tr>
<td>Synthesis</td>
<td>Architecture IVC</td>
</tr>
<tr>
<td>*Urban Design A</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Urban Design B</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Fine Arts</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Australian Architecture</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Landscape Design</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Interior Design</td>
<td>Urban Design A</td>
</tr>
<tr>
<td>*Decorative Building Elements</td>
<td>Urban Design A</td>
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<tr>
<td>Professional Practice</td>
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<td>Management for the Architect</td>
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<tr>
<td>Law for the Architect</td>
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<tr>
<td>Specifications</td>
<td>Urban Design A</td>
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<tr>
<td>Estimating</td>
<td>Urban Design A</td>
</tr>
</tbody>
</table>

**Note: Not all electives listed will necessarily be offered in any one year.**
6. Every candidate shall submit three copies of the thesis as provided under paragraph 4*. All copies of the thesis shall be in double-spaced typescript, shall include a summary of approximately 200 words, and a certificate signed by the candidate to the effect that the work has not been submitted for a higher degree to any other university or institution. The ORIGINAL copy of the thesis for deposit in the Library shall be prepared and bound in a form approved by the University. The other two copies of the thesis shall be bound in such a manner as allows their transmission to the examiners without possibility of disarrangement.

It shall be understood that the University retains the three copies of the thesis and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act (1968) the University may issue the thesis in whole or in part in photostat or microfilm or other copying medium.

7. No candidate shall be considered for the award of the degree until the lapse of six complete terms from the date from which the registration becomes effective, save that in the case of a full-time candidate who has obtained the degree of Bachelor of Architecture with Honours or who has had previous research experience, this period may, with the approval of Senate, be reduced by not more than three terms.

8. For each candidate there shall be two examiners appointed by Senate, one of whom shall, if possible, be an external examiner.

2. A candidate for registration for the degree of Doctor of Philosophy shall:—

(i) have satisfied all of the requirements for admission to the degree of master or the degree of bachelor with first or second class honours in the University of Newcastle or a degree from another university recognised by the Senate as having equivalent standing;

or

(ii) have satisfied all of the requirements for admission to the degree of bachelor with third class honours or without honours in the University of Newcastle or a degree from another university recognised by the Senate as having equivalent standing, and have achieved by subsequent work and study a standard recognised by the Senate as equivalent to at least second class honours;

or

(iii) in exceptional cases submit such other evidence of general and professional qualifications as may be approved by the Senate.

3. The Senate may require a candidate, before he is permitted to register, to undergo such examination or carry out such work as it may prescribe.

4. A candidate for registration for a course of study leading to the degree of Ph.D. shall:—

(i) apply on the prescribed form at least one calendar month before the commencement of the term in which he desires to register;

and

(ii) submit with his application a certificate from the Head of the Department in which he proposes to study stating that the candidate is a fit person to undertake a course of study or research leading to the Ph.D. degree and that the Department is willing to undertake the responsibility of supervising the work of the candidate.

5. Before being admitted to candidature, an applicant shall satisfy the Senate that he can devote sufficient time to his advanced study and research.
6. Subsequent to registration, the candidate shall pursue a course of advanced study and research for at least nine academic terms, save that any candidate who before registration was engaged upon research to the satisfaction of the Senate, may be exempted from three academic terms.

7. A candidate shall present himself for examination not later than fifteen academic terms from the date of his registration, unless special permission for an extension of time be granted by the Senate.

8. The course, other than field work, must be carried out in a department of the University, under the direction of a supervisor appointed by the Senate, or under such conditions as the Senate may determine, save that a candidate may be granted special permission by the Senate to spend a period of not more than three academic terms in research at another institution approved by the Senate.

9. Not later than three academic terms after registration the candidate shall submit the subject of his thesis for approval by the Senate. After the subject has been approved it may not be changed except with the permission of the Senate.

10. A candidate may be required to attend a formal course of study appropriate to his work.

11. On completing his course of study every candidate shall submit a thesis which complies with the following requirements:
   (i) The greater proportion of the work described must have been completed subsequent to registration for the Ph.D. degree.
   (ii) It must be a distinct contribution to the knowledge of the subject.
   (iii) It must be written in English or in a language approved by the Senate and reach a satisfactory standard of literary presentation.

12. The thesis shall consist of the candidate's own account of his research. In special cases work done conjointly with other persons may be accepted provided the Senate is satisfied on the candidate's part in the joint research.

13. Every candidate shall be required to submit with his thesis a short abstract of the thesis comprising not more than 300 words.

14. A candidate may not submit as the main content of his thesis any work or material which he has previously submitted for a University degree or other similar award.

15. The candidate shall give in writing three months' notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

16. Four copies of the thesis shall be submitted together with a certificate from the supervisor that the candidate has completed the course of study prescribed in his case and that the thesis is fit for examination.

17. The thesis shall be in double-spaced typescript. The original copy for deposit in the Library shall be prepared and bound in a form approved by the University. The other three copies shall be bound in such manner as allows their transmission to the examiners without possibility of disarrangement.

18. It shall be understood that the University retains four copies of the thesis and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act (1968) the University may issue the thesis in whole or in part in photostat or microfilm or other copying medium.

19. The candidate may also submit as separate supporting documents any work he has published, whether or not it bears on the subject of the thesis.

20. The Senate shall appoint three examiners of whom at least two shall not be members of the teaching staff of the University.

21. The examiners may require the candidate to answer, viva voce or in writing, any questions concerning the subject of his thesis or work.

22. The result of the examination shall be in accordance with the decision of a majority of the examiners.

23. A candidate permitted to re-submit his thesis for examination shall do so within a period of twelve months from the date on which he is advised of the result of the first examination.

24. In exceptional circumstances the Senate may relax any of these requirements.
Subject Description

Preface
Subject descriptions are currently under review in the Department of Architecture and any variations and additional information to that shown below will be issued from the Departmental Office after the 1st February, 1976.

Subject Outlines and Reading Lists are set out in a standard format to facilitate easy reference. The policy adopted in this Handbook for interpretation of the various sections is set out below. This may not necessarily be the same policy adopted for other Faculty Handbooks.

(1) Name
The official subject name as included in Schedule of the degree requirements. This name must be used when completing any forms regarding enrolment or variation of enrolment.

(2) Prerequisites
Before enrolling in the subject, a student shall have passed the subjects listed as prerequisites. In some cases an advisory prerequisite is stated and although this is not compulsory, it would be a distinct advantage for the student to have passed such a subject. An advisory prerequisite may be stated in terms of N.S.W. Higher School Certificate subjects.

(3) Corequisite
A corequisite is a subject which should be taken concurrently with another subject if not previously passed.

(4) Hours
Subject hours may include lectures, tutorials or studio periods. The periods vary in length, but are normally of one or two hours duration. Students should read the timetable for details.

(5) Examination
The formal examination requirements are stated, however, progressive assessment is used in some subjects and students are required to make submissions of work as specified by lecturers and tutors. Periodic examinations are usually held during the year. Work completed during the year will be taken into account in assessing the students final resultant grading. Failure to submit written work may involve exclusion from examinations in accordance with the University By-Laws.

(6) Content
An outline of subject content.

(7) Suggested Preliminary Reading
A list of reading material which should help the student gain a basic understanding of a subject. This material should be read before attending the first lecture on the subject.

(8) Texts
Essential books which are recommended for purchase.

(9) References
Students should not restrict their reading to texts as other references are listed to cover various aspects of the subject. Students may need to read all or part of a reference to gain an appreciation of a particular topic.

(10) Electives
A list of subject electives with relevant details will be available from the Faculty Secretary.

211700 Architecture IA

Prerequisites Nil

Hours Approx. 7 hours per week

Examination To be advised

Content
This subject consists of three units.

1. 211701 Visual Studies
   This topic deals with such aspects of visual studies as Freehand drawing, Use of media, Life drawing, Study of natural forms, Exercises in 2D and 3D space, Construction and proportion, Elements of letter form, Tone and colour, Light and optics, Descriptive geometry, Architectural graphics.

2. 211702 Data Processing
   An introduction to data and literature storage, retrieval systems and Computing studies for Architects.

3. 211705 Man Environment Studies
   An introduction to Anthropometrics, Ergonomics, Studies in architectural history and theory.

Texts To be advised
211800  Architecture IB

Prerequisites  Nil

Hours  Approx. 5 hours per week

Examination  To be advised

Content
This subject consists of three units.

1. 211801  Structures
The equilibrium of two and three dimensional force systems.

2. 211802  Construction
Construction principles, Techniques and documentation, Site organisation, Cost control.

3. 211803  Environmental Technology
Properties of materials, Introduction to building, Equipment and services.

Texts  To be advised

211900  Architecture IC

Prerequisites  Nil

Corequisites  Architecture IA & IB

Hours  4½ hours per week

Examination  To be advised

Content
Information presented in the subjects above and other information is brought to a synthesis as the basis for design and as an intellectual and philosophical perspective of architecture. Lectures and tutorials relate directly to the physical environment, landscape design and architectural design methods.

Texts  To be advised

219100  Elective I

Content
A candidate shall select a subject or subjects offered by a Department other than the Department of Architecture and approved by the Dean. The prerequisites, corequisites, hours and examinations are determined by the Department offering the subject and it will be necessary to make reference to the appropriate Faculty Handbook.

212800  Architecture IIA

Prerequisites  Architecture IA

Hours  Approx. 6 hours per week

Examination  To be advised

Content
This subject consists of three units.

1. 212801  Visual Studies
Development of topics introduced in Architecture IA.

2. 212802  Data Processing
Introduction to Statistics, Development of computing studies introduced in Architecture IA.

3. 212805  Man Environment Studies
Introductory studies in sociology, economics, history, political science, psychology Studies in architectural history and theory.

Texts  To be advised

212820  Architecture IIB

Prerequisites  Architecture IB

Hours  Approxt. 6 hours per week

Examination  To be advised

Content
This subject consists of three units.

1. 212821  Structures
Stress, strain relationships, Behaviour of beams, shafts and columns, Instability of beams and columns.
2. 212822 Construction
   Extension of:
   Construction principles,
   Techniques and documentation,
   Site organisation,
   Cost control from Architecture IIB.

3. 212823 Environmental Technology
   Thermal, ventilation, sunshine and shade studies of
   the built environment,
   Equipment and services in building.

Texts
   To be advised

212840 Architecture IIC
Prerequisites
   Architecture IC
Corequisites
   Architecture IIA OR IIB
Hours
   4½ hours per week
Examination
   To be advised

Content
   Lectures and projects related to the built environment and involving
   data and conceptual inputs from other subjects offered in the course.

Texts
   To be advised

219200 Elective II
(See Schedule of Subjects — Schedule B)
Elective Requirements

213800 Architecture IIIA
Prerequisites
   Architecture IIA
Hours
   Approx. 4 hours per week
Examination
   To be advised

Content
   This subject consists of three units.

1. 213801 Visual Studies
   Extension of selected topics from Architecture IIA.

2. 213802 Data Processing
   Statistics.

3. 213804 Man Environment Studies
   Development of selected topics introduced in
   sociology, economics, history, political science and
   psychology.
   Studies in architectural history and theory.

213820 Architecture IIIB
Prerequisites
   Architecture IIB
Hours
   Approx. 7 hours per week
Examination
   To be advised

Content
   This subject consists of three units.

1. 213821 Structures
   Dead, live and wind load on buildings,
   Types of multi-storey frames and lateral bracing
   systems,
   Floor slab systems,
   Soil mechanics problems in foundations,
   Earth retaining structures,
   Prestressed concrete,
   Structural brickwork,
   Folded plate- and shell-structures.

2. 213822 Construction
   Estimating,
   Extension of,
   Construction principles,
   Techniques and documentation,
   Site organisation,
   Cost control from Architecture IIB.

3. 213825 Environmental Technology
   Artificial and natural lighting,
   Architectural acoustics,
   Equipment and services in buildings.

213840 Architecture IIIC
Prerequisites
   Architecture IIC
Corequisites or
Prerequisites
   Architecture IIIA OR IIB
Hours
   4½ hours per week
Examination
   To be advised
Lectures and projects related to the built environment and involving data and conceptual inputs from other subjects offered in the course.

219300 Elective III
(See Schedule of Subjects — Schedule B)
Elective Requirements

214700 Architecture IVA

Prerequisites Nil

Hours 3 hours per week

Examination To be advised

Content
1. 214701 Professional Practice
   Modes of practice,
   Conditions of engagement,
   Management functions,
   Statutory requirements.

2. 214704 Management for the Architect
   Case studies,
   Formal organisation,
   Managerial functions,
   Operations research,
   Decision making theory.

3. 214705 Law for the Architect
   Federal and State Law,
   General Law of Contract,
   Legal practice and procedure,
   R.A.I.A. Contracts.

Texts To be advised

214800 Architecture IVB

Prerequisites Nil

Hours Approx. 4 hours per week

Examination To be advised

Content
1. 214801 Construction
   Advanced building systems,
   Case study analyses,
   System design studies.

2. 214802 Specifications
   Legal significance,
   Types and purpose,
   Information sources,
   Schedules,
   Abstracts,
   Specified bills of quantities,
   Case studies.

3. 214803 Estimating
   The standard mode of measurements,
   On-cost charges,
   Awards,
   Insurance,
   Tax.

Texts To be advised

214900 Architecture IV C

Prerequisites Nil

Corequisites Architecture IVA OR IVB

Hours 4½ hours per week

Examination To be advised

Content
Lectures and projects related to the built environment and involving data and conceptual inputs from other subjects offered in this and the Bachelor of Science (Architecture) course.

Texts To be advised

219400 Elective IV
(See Schedule of Subjects — Schedule D)
Elective Requirements
215500 Architecture VA

**Prerequisites**
Architecture IVA

**Hours**
3 hours per week

**Examination**
To be advised

**Content**

1. **215501 Professional Practice**
   Cost control,
   Engagement of consultants,
   Documentation,
   Inter-disciplinary communications,
   Insurances.

2. **215502 Management for the Architect**
   Extension of the following topics from Architecture IV:
   Case studies,
   Formal organisation,
   Operations research,
   Decision-making theory.

3. **215503 Law for the Architect**
   Arbitration,
   Negligence,
   Duties,
   Liabilities,
   Defamation,
   Law of copyright,
   Easement and analogous rights.

**Texts**
To be advised

215520 Architecture VB

**Prerequisites**
Architecture IVB

**Hours**
Approx. 4 hours per week

**Examination**
To be advised

**Content**

1. **215521 Construction**
   Advanced building systems,
   Case study analyses,
   System design studies.

2. **215522 Specifications**
   Extension of the following topics from Building IV:
   Schedules,
   Abstracts,
   Specified bills of quantities,
   Case studies.

3. **215523 Estimating**
   Variations,
   Adjustments,
   Bulked cost rates,
   Cost comparisons,
   Transportation,
   Tenders.

**Texts**
To be advised

215540 Architecture VC

**Prerequisites**
Architecture IVC

**Corequisites**
Architecture VA OR VB

**Hours**
4½ hours per week

**Examination**
To be advised

**Content**

Lectures and projects related to the built environment and involving data and conceptual inputs from other subjects offered in this and the Bachelor of Science (Architecture) course.

**Texts**
To be advised

219500 Elective V

(See Schedule of Subjects — Schedule D)

Elective Requirements