UTS
UNIVERSITY
OF TECHNOLOGY
SYDNEY

FACULTY OF DESIGN, ARCHITECTURE AND BUILDING

HANDBOOK ♦ 1991

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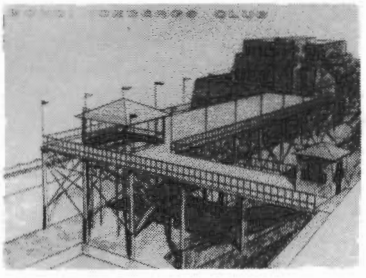

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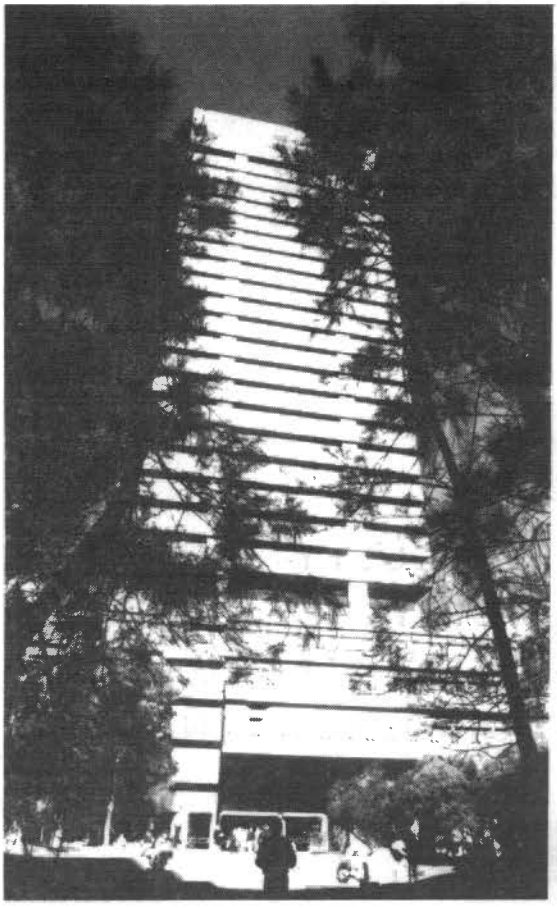
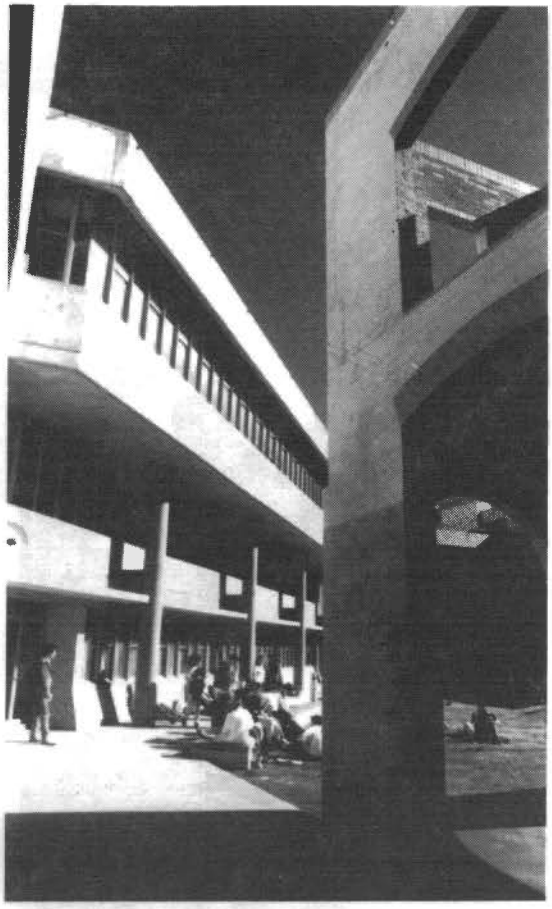
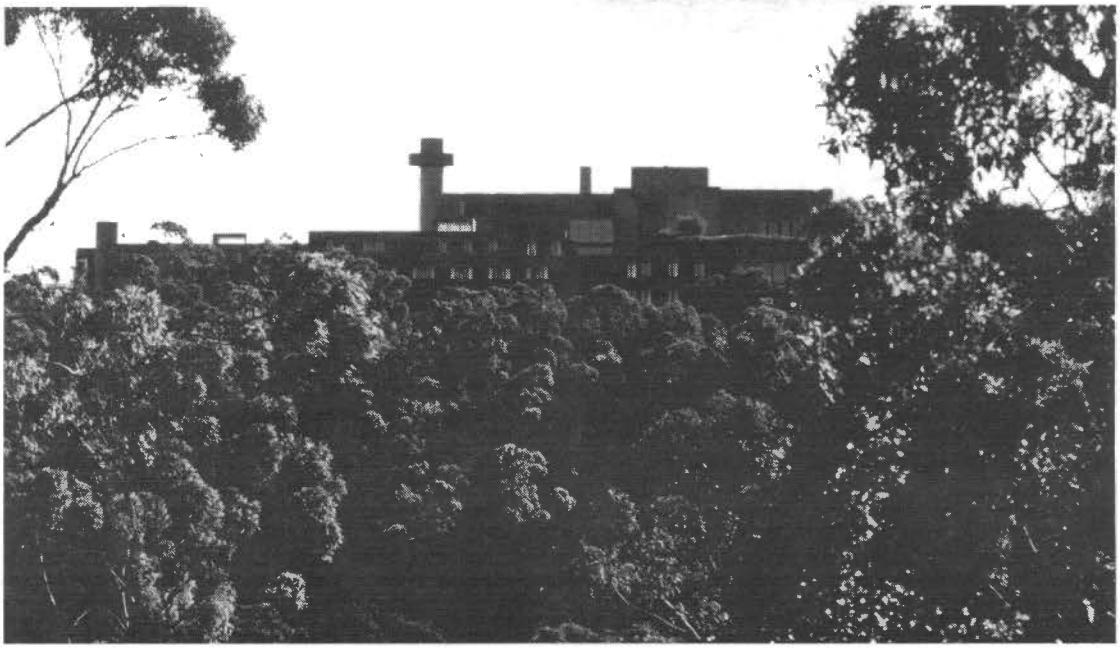






UNIVERSITY OF TECHNOLOGY, SYDNEY

UTS has nine Faculties and each one has a separate Handbook which provides a detailed introduction to the Faculty's Undergraduate Courses.

Each Faculty also has a separate Postgraduate Studies Guide.

Reading these publications will show you how all courses at UTS aim to equip graduates for their professional career. Most courses can be undertaken with part-time attendance. Some are also offered with full-time and sandwich attendance. You do not have to be employed at the time you enrol in a sandwich pattern. And you can usually transfer from one attendance pattern to another at the end of a stage, provided the Head of School approves and there is space available in the class.

UTS does not offer external or correspondence Courses.

Further information

The UTS Information Service is open all year in the Tower building at 15-73 Broadway (near Central Railway). If you can't visit them, write to PO Box 123 Broadway 2007 Australia or telephone (02) 20930.

Representatives of UTS attend Careers Days held in the Sydney region through the year.

The University Open Days - on 24 & 25 May 1991 - are your chance to visit the campus and discuss your career plans and Course preferences with members of the Academic staff.

At Kuring-gai campus there is an Inquiries Desk in the main foyer.

Applications for admission

If you want to be admitted or readmitted to a UTS Undergraduate course, apply to the Universities Admissions Centre by 27 September.

(There are some courses for which you can apply direct to UTS - the deadlines for these are advertised separately.)

If you want to enrol in a Doctoral programme or a Masters by Thesis, UTS will generally accept your application at any time.

For a Master of Arts, Master of Business or other higher degree by Coursework, you should lodge your application with the University by 31 October.

UNIVERSITY E.E.O. POLICY

It is the policy of the University of Technology, Sydney to provide equal opportunity for all persons regardless of race, sex, marital status, physical disability or homosexuality.

MISSION

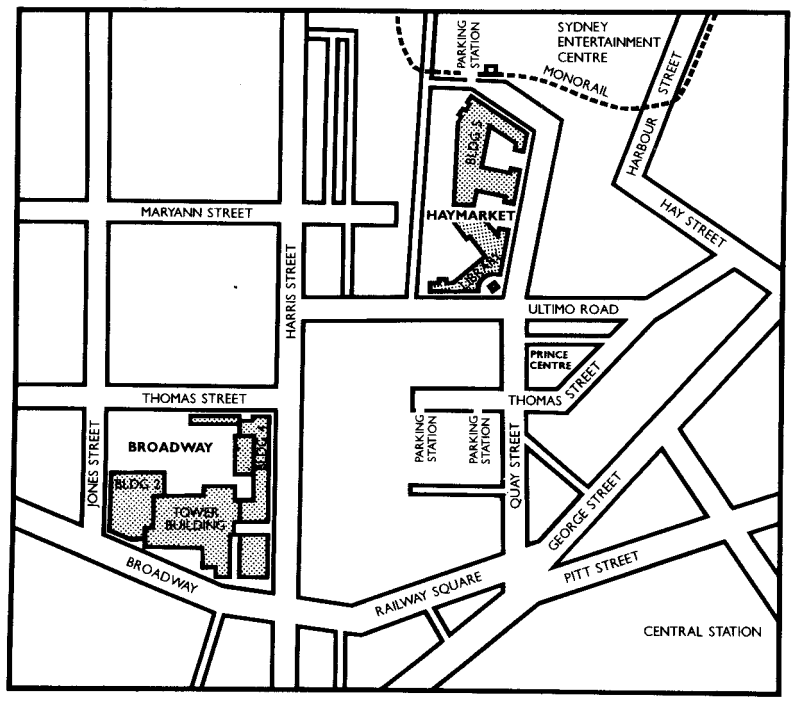
The mission of the University of Technology, Sydney is to provide higher education for professional practice which anticipates and responds to community needs and the effects of social and technological change. The University offers access to its human, physical and technological resources for the advancement of society. It is committed to freedom of enquiry and the pursuit of excellence in teaching, scholarship and research, and to interaction with the practising professions.

The University seeks to accomplish its mission in the following ways:

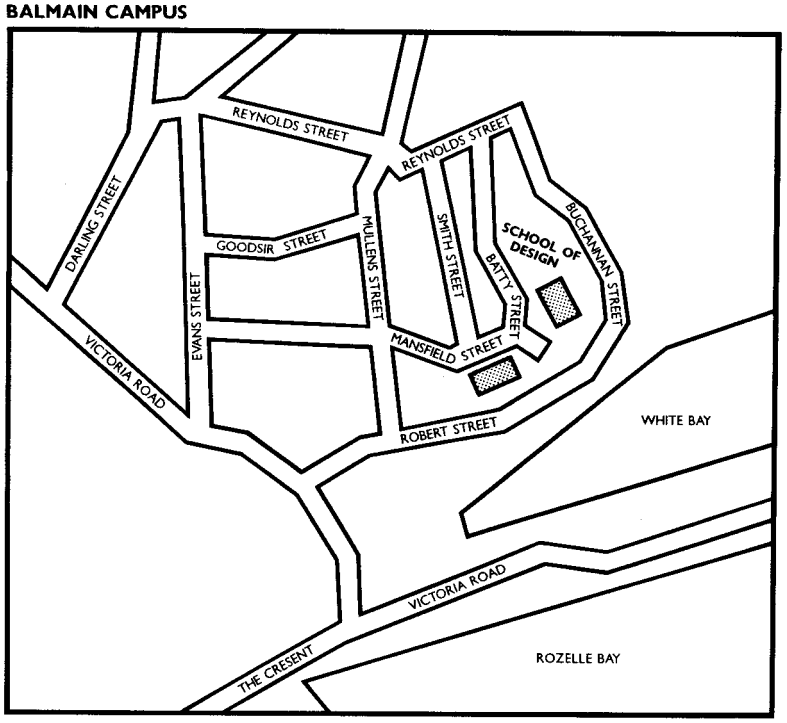
- by teaching an appropriate range of undergraduate, postgraduate and other educational programmes in a variety of attendance patterns for students wishing to enter the workforce at a professional level, those already employed at that level and those in employment who wish to attain that level.
- by ensuring that its courses are designed to enable gradutes to carry out full professional practice in their chosen field. The courses aim to develop students' ability to learn, to solve problems, to adapt to change, and to communicate. Students should gain a broad understanding of social as well as technological issues, and acquire a greater perception of the nature and needs of modern society and of their responsibility to play a leading part in shaping it.
- by recognising that it has been established to serve the community as a major resource in vocational higher education. It therefore makes its technological expertise and facilities available to industry, commerce, government, and professional and community organisations. The means by which this is achieved include co-operative education, continuing education, pure and applied research and development, consulting, technology transfer and management, and contribution to national and regional policy development in education and technology.
- by promoting effective teaching and scholarship, professional activity and research by members of the University community to ensure the maintenance of high educational standards and their recognition at national and international levels.
- by continuing to develop and promote policies that ensure equality of opportunity in all its aspects.
- by seeking effective support for its educational activities
- by conducting regular consultative reviews of its mission and objectives.

FACULTY LOCATION MAPS

CITY CAMPUS



BALMAIN CAMPUS



Faculty of Design, Architecture and Building

Faculty Office:
Level 7, Building 2,
15-73 Broadway

Postal Address:
PO Box 123,
Broadway NSW 2007

School of Architecture
Level, Building 2,
City Campus
Telephone: (02) 20930

School of Building Studies
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City Campus
Telephone: (02) 20930

School of Design
Mansfield and Batty Streets,
Balmain Campus
Telephone: (02) 20930

CONTENTS

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School of Design - Geoffrey McGeachin
Other - Sherran Evans

MESSAGE FROM THE DEAN

Professor Vernon Ireland

The creation of the Faculty of Design, Architecture and Building brings together two of the most eminent of the faculties in old UTS. The traditions of both are enviable: there has been significant public acknowledgement of excellence through prizes and awards gained by their students.

The combined Faculty has both diversity in the range of courses offered and common themes in the design of artifacts and the management of the production process. The property studies work of the Faculty includes these processes and also emphasises the valuation and management of the asset.

Both the undergraduate and postgraduate courses are underpinned by the study of a number of disciplinary areas, including the symbols of our society, the technology available to our professionals, the process and controls used in production and the most efficient use of the assets created. Preserving our environment and our rich heritage is an essential part of the Faculty emphasis.

The Faculty staff are dedicated to contributing to knowledge in the relevant disciplines by research and professional practice.

STAFF

Professor of Building and Dean of Design, Architecture and Building
V. Ireland, BE (NSW), BA, MEngSc, PhD (Syd), ASTC FAIB, MIEAust

Secretary to the Dean
M. Makris

Administrative Officer
C. Johnson, DipT (MCAE), BEd (CCAE)

Student Liaison Officer
J. Lanagan, BA (Macq)

Word Processor Operator/Clerk
R. Burnside

Senior Technical Officer
G. Moor

Technical Officers
J. Pickering
A. Pearson

SCHOOL OF ARCHITECTURE

Associate Professor and Head of School
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Secretary to Head of School
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Professor of Architecture
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Senior Lecturers
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M.D. Chapman, ASTC, LFRAIA, ARIBA, FIArbA
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P.G. Towson, MEngSc (NSW), PhD (Syd), MIEAust

Lecturers
H. Dietrich, BSc (Sheff), CertEd, MSc (Sussex)
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Visiting Professor
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SCHOOL OF BUILDING STUDIES

Associate Professor and Head of School
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Secretary to Head of School
L.P. Stoneman

Postgraduate & Continuing Education

Associate Professor and Director
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Visiting Professor
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Department of Building

Senior Lecturer and Head of Department
Vacant

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Lecturers
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K. Heathcote, BE, GradDipEd (Tech) (ITATE), MEngSc, MCom (NSW), MIEAust
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D.B. Morgan, BE (NSW) DipEd (SCAE), MIEAust, LGE, MTPC, MAIB
N.R. Shooter, BAppSc (Bldg) (NSWIT), AAIM, AAIB

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Department of Land Economics

Head of Department
Vacant

Visiting Associate Professor
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P. Waxman, BS, DipEd (SUNY), DipEc (Stockholm), MBA (Wash)

Lecturer
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Department of Quantity Surveying

Senior Lecturer and Head of Department
C.F. Roberts, LLB (NSW), ASTC, AAIQS, Barrister of the Supreme Court of NSW

Senior Lecturer
C.A. Langston, BAppSc, MAppSc (NSWIT), AAIQS

Lecturer
P. Smith, BAppSc (NSWIT)

SCHOOL OF DESIGN

Associate Professor and Head of School
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Administration Officer, Finance and Properties
R. Squirchuk

Administration Secretary, Secretary to head of School
I. Ternel

Executive Assistant, P/T Personnel and Student Enquiries
A. Bastock, BA (Macq)

Secretary
V. Cains

Equipment Co-ordinators
O. Berlin
D. Moss

Department of Fashion and Textile Design

Senior Lecturer and Head of Department
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Senior Lecturer
G. Hardwick, DA (Manc Coll Art)

Lecturers
E. Hagen, MDes (RCA)
R. Landers, BA (SCA)

Textile Assistant, Textiles
P. Inwood, CertTypDipTextDes (Wgtn Poly)

Technical Officer, Fashion
M. Spear

Technical Assistant, Fashion
D. Czar

Department of Industrial Design

Associate Professor and Head of Department
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Associate Professor
C. Nielsen, MA (Design) (SCA), FDIA, FRSA

Lecturers
A. Elton, MDIA (Ed)
V. Kokotovich, BSc (IndEd), MA (IndDes) (Purdue), MIED (Maryland), IDSA

Workshop Manager, Industrial Design Workshop
W. Feinberg

Technical Officer, Industrial Design Workshop
L. Brown

Department of Interior Design

Senior Lecturer and Head of Department
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Senior Lecturer
G. Wilkie, GradDip T&C Planning (Syd), GradDipEd (STC), ARAIA

Lecturers
N. Bradley, BA (IntDes) (RMIT)
K. Hanton, Dip (IntDes) (SCA)

Research Officer
J. Powell, DipIntDes (SCA)

Department of Visual Communication

Senior Lecturer and Head of Department
J. Wilson, DipAD P/Grad (Edin)

Senior Lecturer
C. McGregor, BA (Syd)

Lecturers
C. Beard, NatCertEng, Higher NatCertStructural Eng (Leic Coll of Tech)
J. Gothe, Graphic Design Dip (Randwick TC)
B. Hart
M. Hill, CertGroupwork (SAIT), GradDipMedia (AFTS), ASIFA
R. Hugonnet, BA (VisComm) (SCA)
J. Kesteven, BA (NSWIT)

Production Co-ordinator, Film & Video
G. Trad, DipTeach (Arm CAE)

Production Co-ordinator, Printery
M. Watson

Production Co-ordinator, Photography
M. Roxburgh, BA (Visual Arts), GradDip (Visual Arts) (CAI)

Technical Officer, Typesetting
Vacant

Unit for Design Computing

Senior Lecturer and Head of Unit
K. Smith, BComm (NSW)

Lecturer
R. Trembath, CertStructuralEng (STC), GradDipDesStudies (UTS), MDIA (Ed)

Laboratory Manager
M. Hacker

Technical Assistant, Computing
Vacant

Unit for Integrated Design Studies

Senior Lecturer and Head of Unit
Vacant

Senior Lecturer
D. Harman, BSc, DipTech (Nth Polytechnic), MSc (Manc), AMUIT

Lecturers
J. Broadbent, BSc, PhD (Reading), GradDipEnvStudies (Macq)
R. Hayes, BArch (Syd), MEnvStudies (Macq)

Unit for Postgraduate Studies

Senior Lecturer and Head of Unit
D. Denne, MA (York), DipBldSc (Syd), GradDipLD (NSW), GradDipEd ASTC (Hons), MDIA, RAIA

GENERAL INFORMATION

The Faculty comprises three Schools: Design, Architecture and Building Studies. The School of Design is located at the Balmain campus in the White Bay and Mansfield Street buildings, Mansfield Street, Balmain. The School consists of four departments: Fashion and Textile Design; Industrial Design; Interior Design; and Visual Communication, and three units: Design Computing; Integrated Design Studies; and Postgraduate Studies.

The Schools of Architecture and Building Studies are located at the Broadway campus. The School of Building Studies consists of three departments: Building, Quantity Surveying and Land Economics.

COURSES

School of Architecture

Doctor of Architecture (thesis)
Master of Architecture (thesis)
Master of the Built Environment (coursework)
Bachelor of Architecture

School of Building Studies

Master of Applied Science (thesis)
Master of Project Management (coursework)
Master of Planning (coursework)
Graduate Diploma in Planning (coursework)
Graduate Diploma in Urban Estate Management (coursework)
Bachelor of Applied Science (Building)
Bachelor of Applied Science (Quantity Surveying)
Bachelor of Applied Science (Land Economics)

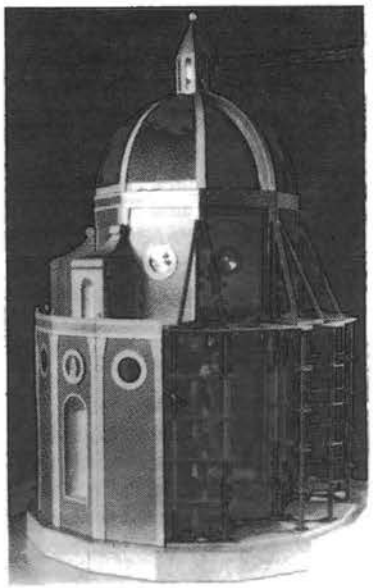
School of Design

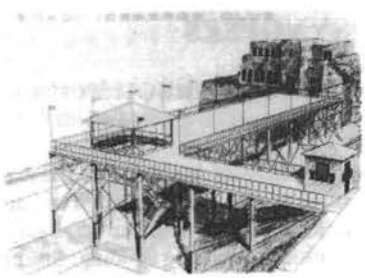
Bachelor of Design in:
▲ Fashion and Textile Design
▲ Industrial Design
▲ Interior Design
▲ Visual Communication

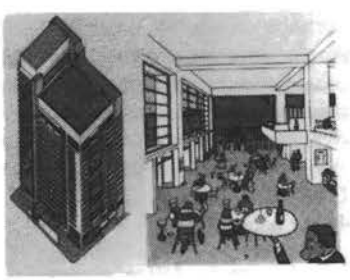
▲ Graduate Diploma in Design Studies ▲ Master of Design (coursework) ▲ Master of Design (thesis)

Full particulars of these courses and their requirements are given in the sections relating to the respective schools.

PhD programmes are offered in Architecture and Building and associated fields.







SCHOOL OF ARCHITECTURE

UNDERGRADUATE COURSE

The School of Architecture offers a six year course of co-operative education leading to the award of Bachelor of Architecture which can be conferred with first or second class honours (see following pages in this section on rules for awards).

Students usually attend twelve hours of formal class work per week during one full day and two evenings. Students also carry out substantial assignment work, while simultaneously gaining practical experience in the industry through appropriate employment.

BACHELOR OF ARCHITECTURE

Year 1	**Hours/Week**
11011 Construction 1	4
11012 Design 1	2
11013 Materials and Systems	2
11014 Contextual Studies 1A	1
11015 Contextual Studies 1B	1
11016 Contextual Studies 1C	1
11017 Services 1	1
Practical Experience Requirements	
13999 Architectural Experience	3

Year 2	
11021 Construction 2	3
11022 Design 2	4
11023 Structural Analysis 1	1
11024 Contextual Studies 2A	1
11025 Contextual Studies 2B	1
11026 Contextual Studies 2C	1
11027 Services 2	1
Practical Experience Requirements	
13999 Architectural Experience	3

Year 3	
11031 Construction 3	2
11032 Design 3	4
11033 Structural Analysis 2	1
11035 Contextual Studies 3B	1
11036 Contextual Studies 3C	1
11037 Services 3	3
Practical Experience Requirements	
13999 Architectural Experience	3

Year 4	
11042 Design 4	4
11043 Structural Design	2
11045 Contextual Studies 4B	1
11046 Contextual Studies 4C	1
11047 Services 4	1
11048 Architectural Practice 1A	1
11049 Architectural Practice 1B	2
Practical Experience Requirements	
13999 Architectural Experience	3

Year 5	
11052 Design 5	4
11055 Contextual Studies 5B	2
11056 Contextual Studies 5C	2
11058 Architectural Practice 2A	1
11059 Architectural Practice 2B	1
11071 Elective Project	2
Practical Experience Requirements	
13999 Architectural Experience	3

Year 6	
11062 Design 6	4
11066 Elective Studies	3
11068 Architectural Practice 3A	2
11069 Architectural Practice 3B	1
11071 Elective Project	2
Practical Experience Requirements	
13999 Architectural Experience	3

SYNOPSES

11011 CONSTRUCTION 1
2 year hours

The nature of buildings as interlocking systems and subsystems. The production of buildings: traditional, rationalised, component and systems building. Authorities controlling building. Site investigation, survey instruments and methods.

An introduction to small-scale (domestic) building construction by detailed examination of function, forms, materials, methods, costs and detailing on an elemental basis.

11012 DESIGN 1
4 year hours

Introduction to design processes. Development of graphic communication skills and model making. Anthropometrics, site analyses, design exercises.

11013 MATERIALS & SYSTEMS
2 year hours

Identification, classification and testing of soils. Elements of materials science: relationship between structure and properties. Concepts of stress, strain, yield and fracture strengths for timber, steel, concrete, masonry, rubbers and plastics.

Functions of the structural system. Examination of structural forms, action and behaviour by load path analysis. Posts and beams, arches, planar and three-dimensional frames, load transfer and jointing methods.

11014 CONTEXTUAL STUDIES 1A
1 year hour

An introduction to the study of the natural physical environment as it affects the human habitat.

11015 CONTEXTUAL STUDIES 1B
1 year hour

An introduction to concepts, language, communication and criticism in architectural design.

11016 CONTEXTUAL STUDIES 1C
1 year hour

Basic concepts of sociology: culture, institutions, social class, pressure groups as social contexts within which architecture is performed.

11017 SERVICES 1
1 year hour

Elementary physical principles underlying the architectural context of heat, light and sound.

11021 CONSTRUCTION 2
3 year hours
Prerequisites: 11011 Construction 1, 11013 Materials & Systems

Extended examination of small-scale building construction, developing into a detailed examination of more complex forms: wall and roof framing for small buildings, external cladding systems, internal linings and finishes. Windows, doors, glass, glazing, cabinet work and hardware. Basement construction. Roofing systems.

11022 DESIGN 2
4 year hours

Development of design processes and languages. Relationship of human activities, construction systems and building ecologies.

11023 STRUCTURAL ANALYSIS 1
1 year hour

Introduction to mathematics for structural design purposes: calculus, co-ordinate geometry, trigonometry. The concepts and conditions of static equilibrium, resolution forces, bending moments, centroids. Algebra and its application to structural theory.

11024 CONTEXTUAL STUDIES 2A
1 year hour

A study of human ecology related to the emergence and development of the city. Evolution of cultures and social practices and their relationship to settlement patterns.

11025 CONTEXTUAL STUDIES 2B
1 year hour

Presentation of aspects of architectural history with reference to design concepts and theoretical models drawn from both historic and contemporary works.

11026 CONTEXTUAL STUDIES 2C
1 year hour

Presentation of a series of topics, selected to develop an understanding and critical analysis of communications between individuals and social groups.

11027 SERVICES 2
1 year hour

The provisions of thermal comfort by means of passive and active services, fundamentals of thermal comfort, effects of temperature, humidity, air velocity. Principles of air-conditioning and ventilation, systems and equipment. Principles of passive design.

11031 CONSTRUCTION 3
2 year hours
Prerequisite: 11013 Materials & Systems

Load bearing masonry, multi-storey. Concrete materials and methods: normal and prestressed reinforced concrete construction and floor systems. Structural steel materials and methods: low and high rise frames, jointing and detailing. Patent structural/construction systems. Alternate systems: grids, nets, shells, domes, membranes and air supported structures.

Footings for large buildings, piles and pile caps. Internal subdivision of more complex buildings. Facade elements including precast concrete, in situ concrete, curtain walls.

Communication of design intent: documentation systems, dimensional co-ordination, specifications and scheduling. Administration of the building process:

introduction to network diagrams and time scheduling, builders plant and site organisation, materials handling as a constraint on construction and design decisions.

11032 DESIGN 3
4 year hours

Application of design theory to the resolution of planning relationships, structure construction, services, environment and human needs to the design of buildings.

11033 STRUCTURAL ANALYSIS 2
1 year hour
Prerequisite: 11023 Structural Analysis 1

An examination of statically determinate structures; conditions of equilibrium, determination of reactions, shear and axial forces, bending moments; conditions for maximum moment. Review of centroids and extension to the second moment of area. Determination of deflection of beams by integration and use of formulae. Wind loads on buildings, theory of wind derived from fluid mechanics and application of the Wind Code to particular buildings.

11035 CONTEXTUAL STUDIES 3B
1 year hour

History of architecture in Europe and the Mediterranean, from Greek to Gothic.

11036 CONTEXTUAL STUDIES 3C
1 year hour

The dynamics of social change, especially with reference to changing patterns of urbanism.

11037 SERVICES 3
3 year hours

Specialised design practices applied to lighting, acoustics, sound isolation, electrical and vertical transport systems. Hydraulics: water supply for domestic and commercial purposes, plumbing, soil and waste installations and sprinkler hydraulics.

11042 DESIGN 4
4 year hours

Continuation of the objectives of Design 3 into more complex buildings.

11043 STRUCTURAL DESIGN
2 year hours
Prerequisites: 11033 Structural Analysis 2, 11031 Construction 3

Structural design of beams, columns, trusses, frames and slabs in timber, steel and reinforced concrete as appropriate. System selection, member calculation and constructional method related to design project. Model analysis and testing.

11045 CONTEXTUAL STUDIES 4B
1 year hour

History of architecture from the Renaissance to the precursors of the Modern movement.

11046 CONTEXTUAL STUDIES 4C
1 year hour

Regional and urban planning issues in the social context, and an examination of planning decisions, their bases and implications. Urban sociology.

11047 SERVICES 4
1 year hour

Examination of the envelope of the building in detail with respect to thermal performance, daylight performance and urban planning considerations of daylight and sunshine/shade.

11048 ARCHITECTURAL PRACTICE 1A
1 year hour

Law and Management: (i) A background to statute and common law and the operative legal systems, together with the laws of torts, contracts and agency, in their implications to architectural practice. (ii) An introduction to management theory and the processes of forecasting, organising, planning, motivating, controlling, co-ordinating and communicating.

11049 ARCHITECTURAL PRACTICE 1B
2 year hours

Estimating and Cost Control: (i) Methods available to architects in establishing estimates at the briefing, schematic, design development and documentation phases of a project. The detailed base of estimating small projects and cost variations. (ii) Parameters of cost planning and elemental analysis, their use in design and documentation stages and the development of final cost analysis.

11052 DESIGN 5
4 year hours

Design exercises relating to large span buildings. Urban design exercises.

11055 CONTEXTUAL STUDIES 5B
2 year hours

Introduction to concepts and the practice of urban design. History, planning processes, urban structure and form, residential, commercial and public building infrastructures.

11056 CONTEXTUAL STUDIES 5C
2 year hours

A study of the Modern movement in architecture and its development into current considerations.

11058 ARCHITECTURAL PRACTICE 2A
1 year hour

Law and Ethics: Aspects of partnership, company law, taxation, insurances and the law of master and servant. Trade practice, the Architects Act and professional ethics.

11059 ARCHITECTURAL PRACTICE 2B
1 year hour

Financial management of architectural practices and of architectural projects, including relevant operations research.

11062 DESIGN 6
4 year hours

Development and presentation of a design thesis embodying all aspects of the design process and the achievement of buildings within the physical cultural environment.

11066 ELECTIVE STUDIES
3 year hours - Year 6

This subject provides an opportunity for students to extend their activities into areas which may not normally be covered by the formal course structure and to exercise choice and realisation of personal objectives.

11068 ARCHITECTURAL PRACTICE 3A
2 year hours

Building contracts: seminars on the legal base of the provisions of building contracts. Comparisons between forms of contract in current usage and their administration, with case studies of practice situations.

11069 ARCHITECTURAL PRACTICE 3B
1 year hour

Marketing: theory and practice related to architectural practice.

11071 ELECTIVE PROJECT
2 year hours, Years 5 & 6

An independent study, approved and supervised by staff, of an aspect of architecture. The study will consist of a written, graphic or audio-visual submission capable of being catalogued by the University Library and be completed by the end of Autumn Semester in Year 6. The study will consider separately, construction materials, methods or systems, structural components and systems, environmental services, or the integration of these into a comprehensive building design in relation to case studies of existing buildings, proposed buildings and/or design projects.

13999 ARCHITECTURAL EXPERIENCE
3 year hours

Students are required to accumulate at least the equivalent of 192 weeks of approved professional experience, concurrently with their studies, and must satisfy the requirements of Faculty Board in the relevant Experience subject, as determined from time to time, in order to graduate.

CREDIT POINT SCHEME

ARCHITECTURAL EXPERIENCE

An integral component of the Architecture course is practical work experience which is acquired concurrently with academic study. Approved work experience is a pre-condition of the award of the degree. Generally it takes approximately four years for a student to accumulate sufficient credit points as detailed below.

All students are required to enrol in the subject 13999 Architectural Experience and gain credit points for their experience. A student must gain a total of 60 credit points in order to satisfy the practical experience requirements for graduation. A student must also gain the following minimum number of points at various stages in the course in order to be eligible for progression:

Entry to Year 3 - 15 credit points
Entry to Year 5 - 35 credit points
Entry to Year 6 - 50 credit points

Students are required to record their practical experience in the log book of the Architects Accreditation Council of Australia, and these log books and work experience sheets must be submitted each year by all students. Students who do not submit log books by the dates set down on the school notice board will have a failure recorded in the subject.

Students who have gained 60 credit points or more and have had this verified by the Head of School are not required to submit log books.

Log books may be obtained from the Faculty Office.

Students who have been granted advanced academic standing may also be eligible for an allowance of credit points in respect of approved practical experience acquired prior to enrolment in the course.

Table 1 ALLOCATION OF CREDIT POINTS

Employment Category	Duration (D) whole weeks	Weighting Factor(W)	Sub-Total (DxW)	Maximum Credit Points Allowed
1. Not Architectural		0.1		9
2. Architectural Employee (refer to log book for details of level)				
Level A		0.2		24
Level B		0.3		24
Level C		0.4		Unlimited
Level D		0.5		Unlimited
Level E		0.6		Unlimited
3. Self Employed with Architect Advisor				
Level B or C		0.2		30
Level D		0.3		30
Level E or F		0.5		30
4. Self Employed in Architectural Capacity without Architect Advisor		0.3		24

RULES GOVERNING PROGRESSION

These rules shall be read in conjunction with the University's By-Laws and Rules:

1. The appropriate Examination Review Committee, in making its decisions, shall take into consideration the student's performance in all subjects and may concede a pass in an individual subject.
2. On the recommendation of the appropriate Examination Review Committee, Faculty Board may in exceptional circumstances exempt a student from provision of the rules relating to progression.
3. The year/stage in these rules is defined as the programme for a year shown in the current edition of the Calendar.
4. A student who fails one or more subjects in any year/stage will normally be required to repeat and pass those subjects failed before progressing to the next year/stage.
5. Notwithstanding Rule 4 a student in any year/stage may be permitted at the discretion of the Head of School:
   (i) to undertake one or more subjects from the following year/stage; or

(ii) in exceptional cases where the Examination Review Committee is satisfied as to the resultant workload in relation to the student's capacity and commitments to carry the subject or subjects in the next year/stage.

Architecture Design Review
The subject Design is assessed by a Design Review Panel which inspects the year's work of each student and the marks awarded by his/her tutors and then arrives at a final grading by consensus. The Panel comprised of Faculty members, eminent outside academics or practitioners, and student representation from the year being examined.

It is the Faculty's view that this is the fairest method that can be devised for assessing a subject in which absolute standards are difficult to define. It ensures that consistent standards can be applied. With these safeguards in place and mindful of the difficulties of reconvening the panel, asessments are not subject to review or appeal. However, the panel may award a mark which indicates to the Examination Committee of the Faculty Board that a conceded pass may be granted in the light of a student's results in other subjects.

Rules for Award of Honours in Degree Courses
The award of Honours in the degree courses of the school is recommended by the Faculty Board on the basis of the criteria listed below. The application of these rules is not totally automatic and Faculty Board modifies them in cases where it is felt that they do not give a true representation of an individual student's calibre, particularly in those cases which are very close to the diviving line between categories (on either side).

Bachelor of Architecture
On the basis of WAM averaged over the last two years of the course:

75% and over	Degree with 1st Class Honours
65% to 75%	Degree with 2nd Class Honours
50% to 65%	Degree

PROFESSIONAL MEMBERSHIP

Royal Australian Institute of Architects
Students enrolled in the Architecture Course are eligible to become student members of the Royal Australian Institute of Architects, and are encouraged to do so.

Application details may be obtained from the Secretary, NSW Chapter, RAIA, 'Tusculum', 3 Manning Street Potts Point 2011 (Telephone 356 2955).

The annual student membership subscription is approximately $35. Student members receive the Institute's journal 'Architecture Australia'.
Student participation is actively sought by the Institute, particularly as members of the various Committees and Working Groups. The RAIA notice board at the Broadway Campus on Level 7 displays programmes of RAIA activities and the monthly bulletins. Further information may be obtained from M.D. Chapman (Telephone 218 9056).

Student membership may be retained by graduates for a period of twelve months.
The requirements for Associate membership include:
(i) A degree in a recognised course of study, i.e. BArch (UTS).
(ii) A minimum of two years approved practical experience, at least one of which must be obtained after completing the course leading to the degree.

In the later years of their course students should check the categories of practical experience required for registration as an Architect. If registration is to be sought twelve months after graduation, students should seek practical experience involving a reasonably high level of responsibility. (Refer to Registration Requirements.)

Registration Requirements
Architects are required to be registered under the provisions of the Architects Act, administered by the Board of Architects of New South Wales. The essential requirements for registration include:

1. A degree in a recognised course of study, i.e. BArch (UTS).
2. A minimum of two years approved practical experience, at least one of which must be obtained after completing the course leading to the degree.
3. Approved practical experience in a number of categories, and some experience at a professional level.
4. Details of practical experience are to be recorded in an approved log book (i.e. AACA log book) with entries at maximum intervals of three months.
5. A pass in an examination in Architectural Practice, such as the AACA Examination conducted by the Board of Architects of NSW on behalf of the Architects Accreditation Council of Australia. A prerequisite to the examination is the completion of the periods of practical experience.

Further information is available from the Registrar, Board of Architects of NSW, 'Tusculum', 3 Manning Street Potts Point 2011, telephone 356 4900.

GRADUATE COURSES

DOCTOR OF ARCHITECTURE

The Doctor of Architecture programme has two main intentions:

- to encourage architects to contribute to the intellectual body of architectural theory and knowledge
- to enable students whose work is made public by construction, rather than in print, to receive academic recognition for their work when substantiated by a theoretical discourse at a doctoral level.

Admission requirements

To gain admission to the course, applicants must apply in writing to the Head of School and submit a documented portfolio of their built and projected architectural works over a period of at least the previous six years.

Applicants without a minimum of six years professional experience will not be considered.

Candidates will normally be expected to have a degree in architecture, with honours or equivalent, and extensive experience and achievement in architectural practice.

Candidates will be required to satisfy the admission panel of the Higher Degree Committee of the Faculty as to their standing as an architect and their ability to fulfil the theoretical discourse demands of the programme.

Study programme

Attendance pattern is six years part-time or three years full-time. Over the duration of the enrolment, candidates may continue in their architectural practice and document their design intentions, processes, conflicts, resolutions and achievements as this work proceeds.

The architectural work produced prior to and during the period of enrolment is the substance of the programme, together with a thesis of a theoretical nature.
No set coursework will be required. Candidates will submit work progressively during their enrolment period.

For final assessment, candidates will submit a portfolio of documented work, plus a theoretical dissertation of approximately 30 000 words.

In terms of quality, the work will be required to achieve the equivalent of doctoral thesis work, that is, to demonstrate professional practice at a standard of excellence as judged by professional peers, and an extent of innovation equivalent to that expected in PhD level work.

MASTER OF ARCHITECTURE (THESIS)

The School of Architecture wishes to encourage the study of Australian architecture. Academic staff within the School specialise in a number of areas which lend themselves to this purpose.

Specialists in both Federation and Modern architecture are involved with investigating the historical development of Australian architecture. At present scholars in the Faculty are engaged in investigation of the theoretical premises which underpin this development. The unique response of architecture to the Australian climate in terms of the form and siting of buildings is receiving the expert attention of staff engaged in environmental research. And the study of Australian urban development, encompassing all these areas, is being explored under the umbrella of urban design and the built environment.

Academic staff welcome enquiries from those interested in undertaking postgraduate studies in any of these areas.

MASTER OF THE BUILT ENVIRONMENT

This 3-year part-time postgraduate course, taught by coursework, is uniquely comprehensive, dealing with the design and management issues involved in the regeneration of buildings and their settings at all levels of planning. This is heightened by the multidisciplinary nature of the specialist teaching provided and the involvement of students from differing professional backgrounds working in groups on complex case studies.

Aims

The aim of the course is to enable students to lead and participate in the process of refurbishment and regeneration of existing buildings and groups of buildings. It is intended that graduates of the course will be competent in the following areas:

(a) designing and facilitating within interdisciplinary groups engaged in the regeneration of urban projects at both micro and macro levels of planning;
(b) understanding the roles and practices of all specialist consultants and contractors, and their integration in the design; the importance of design in the project process, especially in regard to obsolete or historic buildings and work settings;

(c) presenting sound design arguments in which the economic, social, financial, legal, aesthetic, technical and environmental issues have been properly assessed.

Structure

The course is structured to specifically meet the needs of society. The subjects are integrated across disciplines.

The subjects are grouped into three categories: social context, design technology and legal management. Complementary fields of study such as law, management, sociology and urban economics are also examined.

The subjects are introduced in the first two semesters via coursework and theoretical studies, laying the foundation for comprehensive examination of the issues involved in urban renewal and regeneration in the following three semesters.

In the final semester, groups of students present a 'design option' via a rigorously argued case for the future use of a building or group of buildings, representing a synthesis of their studies. This design option will include reports and drawings describing the proposal clearly, showing its viability and all aspects of financing and programmed implementation. It is intended that the results of these studies be published.

Educational Qualifications for Admission

A degree in one of the disciplines related to the built environment, e.g. Architecture, Building, Quantity Surveying, Engineering, Planning, Surveying or equivalent.

Special Additional Qualifications for Admission

Only students with a minimum of three years experience since graduation will be admitted.

Admission of Mature Age Students

Admission of mature age students or other special category students will be considered on their individual merits. However they must be equivalent in competence to those admissions with degrees.

Semester 1		**Hours/Semester**
12560	Urban Architecture (Introduction)	24
12561	Legal Procedures 1 (MBEnv)	24
12562	Building Technology 1 (MBEnv)	16
12563	Property Economics 1 (MBEnv)	32
12564	Urban Sociology (MBEnv)	16

Semester 2		
12565	Building Technology 2	32
12566	Property Finance (MBEnv)	16
12567	Property Economics 2 (MBEnv)	24
12568	Legal Procedures 2 (MBEnv)	24
12569	Urban Architecture	16

Semester 3		
12570	Urban Regeneration Process 1	56
12571	Design Management and Procedures 1	14
12572	Project Context and Constraints 1	14
12573	Opportunities and Needs	14
12574	Multi-Disciplinary Aspects 1	14

Semester 4		
12575	Urban Regeneration Process 2	70
12576	Design Management and Procedures 2	14
12577	Project Context and Constraints 2	14
12578	Project Appraisal	14

Semester 5		
12579	Urban Regeneration Process 3	70
12580	Marketing (MBEnv)	14
12581	Approvals Management	14
12582	Design Project - Research Methodology	14

Semester 6		
12583	Design Project - Submission	112

SYNOPSES

12560 URBAN ARCHITECTURE (Introduction)
1.5 semester hours

A general introduction to the subject is followed by a study of typologies; an analysis of historical precedents, and their influence and interaction on built form - land use policies and philosophies employed in the making of cities, and in particular on the development of Sydney.

12561 LEGAL PROCEDURES 1 (MBEnv)
1.5 semester hours
A short course in property law, both real and personal, and, although it begins with contracts and ends with the contract for sale of land, it contains an intensive coverage of many of the major principles relating to property law in NSW.

12562 BUILDING TECHNOLOGY 1 (MBEnv)
1 semester hour

A diagnostic study of the impact of the various technologies on building typologies, and their effect on the fabric of buildings studied.

12563 PROPERTY ECONOMICS 1 (MBEnv)
2 semester hours

An introduction to aspects of macro and micro economics relevant to property development and property management.

12564 URBAN SOCIOLOGY (MBEnv)
2 semester hours

Social theory; social values and population grouping in Australian society; housing; public participation in planning and community awareness; resident actions and effects of planning on communities and individuals.

12565 BUILDING TECHNOLOGY 2
1 semester hour

A diagnostic appraisal of buildings is undertaken to assess the implications of the concept of Long Life; Loose Fit; Low Energy when applied to buildings.

12566 PROPERTY FINANCE (MBEnv)
1 semester hour

The nature and methods of financing development of the built environment; basic formulae and the theory of finance including compound formulas. (Integrated with Property Economics 2).

12567 PROPERTY ECONOMICS 2 (MBEnv)
1.5 semester hours

An analysis of the needs of property owners. Investigation and selection of appropriate investment strategies in accordance with predetermined objectives. Investment, market analysis and appraisal, and a detailed investigation of capitalisation rates and rates of return in property investment decisions.

12568 LEGAL PROCEDURES 2 (MBEnv)
1 semester hour

Building Control and regulatory approach to conservation and regeneration projects; operation of the Land and Environment Court.

12569 URBAN ARCHITECTURE
1 semester hour

A study of the theories of urbanism which have influenced the making and transformation of existing cities this century, and particularly their impact since 1945.

12570 URBAN REGENERATION PROCESS 1
4 semester hours

The first of a three-part presentation of this subject, in which the process of urban renewal and regeneration is studied in depth, dealing initially with these issues at a strategic planning level; next, with the concept of obsolescence; and finally with a series of morphological studies of particular typologies and executed building case studies.

12571 DESIGN MANAGEMENT AND PROCEDURES 1
1 semester hour

The management of the project process, commencing with identification of opportunities for development resulting from the perceived or actual obsolescence of existing building stock, to the final commissioning and handing over of a regenerated building that will ensure customer satisfaction. The subject will concentrate on the management of the marketing and the initial development phases of the project process.

12572 PROJECT CONTEXT AND CONSTRAINTS 1
1 semester hour

The general and project environment in terms of the constraints that impinge on the Project Process and the response of project organisations.

12573 OPPORTUNITIES AND NEEDS
1 semester hour

Entrepreneurialism, stakeholder conflict, audits, client needs determination, Delphi methodology and case studies.

12574 MULTI-DISCIPLINARY ASPECTS 1
1 semester hour

The individual, interpersonal skills, group dynamics, project teams, negotiation and decision making.

12575 URBAN REGENERATION PROCESS
5 semester hours

This part of the renewal and regeneration process deals with the concept of obsolescence as it affects buildings in use; their technology, fiscal viability, and cultural significance.

12576 DESIGN MANAGEMENT AND PROCEDURES 2
1 semester hour

Project planning, design management, value management, quality assurance, building audits and post occupancy evaluation studies as design aids.

12577 PROJECT CONTEXT AND CONSTRAINTS 2
1 semester hour

Outline of environmental planning legislation, regional proposal strategies, principles of environmental law, integration of future building control requirements, case studies.

12578 PROJECT APPRAISAL
1 semester hour

Physical and economic feasibility studies, cost benefit analysis of regeneration/refurbishment of projects.

12579 URBAN REGENERATION PROCESS 3
5 semester hours

A series of morphological studies examining the changing pattern of use that generic building types undergo, and the impact which this changing pattern has on their operation and efficiency.

12580 MARKETING (MBEnv)
1 semester hour

Marekting system, marketing environment, market information, buyer and user behaviour, strategy, promotion and societal issues.

12582 APPROVALS MANAGEMENT
1 semester hour

Building control matters, 'engineered compliance', accreditation process, approval strategies, 'other' authorities and approvals.

12582 DESIGN PROJECT - RESEARCH METHODOLOGY
1 semester hour

A series of lectures and seminars dealing with the methodology of research programmes, with the principles of thinking, reasoning and argument, and with critical analysis of contemporary issues.

12583 DESIGN PROJECT SUBMISSION
8 semester hours

This piece of work will represent the culmination of the course. It will take the form of a group submission, in which each 'specialist' will contribute specifically and will document that contribution. The project will be a case study.

COURSE ADVISORY COMMITTEE

Ex-Officio Members
Head, School of Architecture
W. Barnett (Chair)
Dean, Faculty of Design, Architecture and Building
V. Ireland
Head, School of Building Studies
D. Lenard
Professor of Architecture
N.D. Quarry
Registrar and Secretary's Representative
Vacant
Other Members
M. Davies, Arhitect in Private Practice
R. Dyke, Architect in Private Practice
D. Gazzard, Architect in Private Practice
W. Koll, Senior Architect, Public Works Department
J. Lang, Professor of Architecture, UNSW
M. Willett, Architect in Private Practice
Nominees of the Following Organisations
Association of Consulting Architects, NSW
R. McWilliam
Board of Architectural Education, RAIA (NSW Chapter)
R.S. Sheldon
Board of Architects of New South Wales

SCHOOL OF BUILDING STUDIES

UNDERGRADUATE COURSES

The School of Building Studies offers three courses of co-operative education leading to Bachelor of Applied Science degrees relating to the built environment: Building, Quantity Surveying, and Land Economics.

Part-time Attendance Pattern - Building and Land Economics

Students attending part-time normally take nine or eleven hours per week of formal class work, which requires one day and evening plus one other evening of attendance per week plus substantial assignment work. At the same time, students gain practical experience in a professional or industrial organisation.

For this purpose students are required to enrol each semester in the professional/industrial experience subject relevant to their course, and to supply details of the experience gained. A total of three years concurrent approved experience will normally satisfy this requirement of the course.

Full-time & Part-time Attendance Pattern - Building and Land Economics

Students may complete the courses by attending two years full-time and two years part-time. Full-time students normally attend classes for 26 hours per week. In addition, students are required to gain practical experience in a professional or industrial organisation.

Approved work experience amounting to three years for part-time students and one to one and a half years for full-time students will normally satisfy the course requirements.

The Quantity Surveying Degree Course comprises six stages of 'Flexi-Pattern attendance'. Stages may be undertaken by either a 'normal' or 'accelerated' attendance pattern. 'Normal' pattern comprises one stage per year, plus approved full-time employment. 'Accelerated' pattern comprises two stages per year, plus work experience for one day/week. Progress through the course requires practical experience credit point thresholds to be achieved.

BACHELOR OF APPLIED SCIENCE (BUILDING)

The Building graduate is concerned with management of the feasibility, design and construction of building projects. Extensive technological skills go hand in hand with the capacity to manage people, plant and materials in order to carry out this task as effectively as possible.

The programmes are offered on two attendance patterns: part-time, or full-time and part-time.

CONSTRUCTION MANAGEMENT CONCENTRATION

Two years full-time plus two years part-time

Year 1 Full-time		**Hours/Week**
16101	Construction 1F	4.5
16201	Drawing & Surveying	2
16211	Computations	3
16301	Services 1	3
16401	Management 1	1
16541	Quantities 1	1.5
16601	Contextual Studies 1	2
16701	Materials 1	2
16711	Building Science	1
16901	Structures 1	2
Practical Experience Requirements		
16199	Building Experience	4
Year 2 Full-time		
16102	Construction 2F	4
16402	Management 2	2
16403	Management 3	1
16531	Estimating 1	2
16542	Quantities 2	2
16602	Contextual Studies 2	2
16611	Building Design	2
16702	Materials 2	2
16801	Legal Studies 1	2
16902	Structures 2	3
Practical Experience Requirements		
16199	Building Experience	4
Year 3 Part-time		
16404	Management 4	2
16405	Management 5	2
16511	Economic Management 1	3
16802	Legal Studies 2	2
16903	Structures 3	2
Practical Experience Requirements		
16199	Building Experience	3
Year 4 Part-time		
16131	Professional Practice	1
16221	Project	4
16406	Management 6	2
16512	Economic Management 2	2
16532	Estimating 2	2
Practical Experience Requirements		
16199	Building Experience	3

CONSTRUCTION MANAGEMENT CONCENTRATION
Six years part-time

Year 1	**Hours/Week**
16111 Construction 1P	2.5
16201 Drawing & Surveying	2
16401 Management 1	1
16541 Quantities 1	1.5
16701 Materials 1	2
16711 Building Science	1
Practical Experience Requirements	
16199 Building Experience	3
Year 2	
16112 Construction 2P	2
16211 Computations	3
16301 Services 1	3
16542 Quantities 2	2
16901 Structures 1	2
Practical Experience Requirements	
16199 Building Experience	3
Year 3	
16113 Construction 3P	2
16402 Management 2	2
16601 Contextual Studies 1	2
16611 Building Design	2
16902 Structures 2	3
Practical Experience Requirements	
16199 Building Experience	3
Year 4	
16114 Construction 4P	2
16403 Management 3	1
16531 Estimating 1	2
16602 Contextual Studies 2	2
16702 Materials 2	2
16801 Legal Studies 1	2
Practical Experience Requirements	
16199 Building Experience	3
Year 5	
16404 Management 4	2
16405 Management 5	2
16511 Economic Management 1	3
16802 Legal Studies 2	2
16903 Structures 3	2
Practical Experience Requirements	
16199 Building Experience	3
Year 6	
16131 Professional Practice	1
16221 Project	4
16406 Management 6	2
16512 Economic Management 2	2
16532 Estimating 2	2
Practical Experience Requirements	
16199 Building Experience	3

SYNOPSES

16101 CONSTRUCTION 1F
4.5 year hours

As Construction 1P plus 2P

16102 CONSTRUCTION 2F
4 year hours

As Construction 3P plus 4P

16111 CONSTRUCTION 1P
2.5 year hours

Every part of typical domestic buildings is covered in detail. Reference is made to the relevant ordinances and standards. The present day building industry is placed in its historical context by reference to building practices through the ages.

16112 CONSTRUCTION 2P
2 year hours
Prerequisite: 16111 Construction 1P

The construction details for industrial and commercial (including multi-storey) buildings.

16113 CONSTRUCTION 3P
2 year hours
Prerequisite: 16112 Construction 2P or 16101 Construction 1F

The construction details for industrial and commercial (including multi-storey) buildings. Construction equipment and methods.

16114 CONSTRUCTION 4P
2 year hours
Prerequisite: 16113 Construction 3P

Construction methods, temporary works, building regulations.

16131 PROFESSIONAL PRACTICE
1 year hour

The history and definition of professionalism, the organisation of professions in the building field,

responsibilities of consultant to client, third party and community, conditions of engagement, indemnity insurance.

16199 BUILDING EXPERIENCE
3 year hours

Students are required to accumulate at least the equivalent of 144 weeks of approved professional/industrial experience concurrently with their studies, and will be required to satisfy the requirements of Faculty Board in the relevant Experience subject, as determined from time to time, in order to graduate.

16201 DRAWING AND SURVEYING
2 year hours

Drafting and graphic skills including lettering, plane and solid geometry and projections. Use of drawing to solve detailing problems. Selection of scales and mode of presentation to communicate. Use of drawings in the building process. Architectural floor plans, reconciliation of dimensions, the meaning of lines, building terms, use of references.

The process of setting out works; extractions of information from surveying drawings, levels, contours; the choice of setting out techniques; the use of tape, level, theodolite and optical plummets. The NSW Land Title Systems. Powers of public authorities.

16211 COMPUTATIONS
3 year hours

The exploration and application of functions and graphs, differentiation and integration. An introduction to matrix algebra. Chance and probability, permutations and combinations. Presentation of data. Average and means, central tendency. Scatter, standard deviation, variance.

Distribution: binomial, Poisson, normal, confidence. The computing course is aimed at developing the students' basic knowledge of computing skills and is structured to allow them to further develop these skills through the solving of suitable problems.

16221 PROJECT
4 year hours

A major project undertaken by each student involving the detailed study of an individual topic with the preparation of a comprehensive report.

16301 SERVICES 1
3 year hours

An introduction to hydraulic, electrical, mechanical and fire protection services and systems.

16401 MANAGEMENT 1
1 year hour

The subject is designed to give students entering the course an orderly approach to their studies, to acquaint them with the facilities available, and to structure their attitude to the construction industry. Simple management approaches.

16402 MANAGEMENT 2
2 year hours
Prerequisites: 16401 Management 1, 16111 Construction 1P or 16101 Construction 1F

Organisation theory, the individual in the workplace, leadership, needs hierarchy, motivation, communication, problem solving, organisational variables, buildability and construction planning of domestic scale projects.

16403 MANAGEMENT 3
1 year hour
Prerequisites: 16402 Management 2, 16113 Construction 3P or 16102 Construction 2F

Organisations as systems, company objectives, management of organisations to achieve objectives, management practice, personnel management and basic industrial relations, quality control and safety, site management, construction planning and time control.

16404 MANAGEMENT 4
2 year hours

The principles and practice of the writing and interpretation of specifications for building work; the impact of standard codes and building regulations; developments in the standardisation and computerisation of specifications. The administration of contracts. By case studies, an examination of the administrative requirements for efficient contracts.

16405 MANAGEMENT 5
2 year hours
Prerequisite: 16403 Management 3

Statistics, operations research techniques, construction management.

16406 MANAGEMENT 6
2 year hours
Prerequisites: 16405 Management 5, 16802 Legal Studies 2

Building process as a system, project constraints, project management, complex project analysis, roles of licensing boards, advanced site safety, safety and design, industrial relations.

16511 ECONOMIC MANAGEMENT 1
3 year hours

Principles of accounting and business finance. Profit and loss statements; balance sheets; cash budgets, services of funds and financial decision making are examined in detail.

16512 ECONOMIC MANAGEMENT 2
2 year hours

The financial control of construction projects which involves variances, budgets and development of various systems of control. The second part of the subject concentrates on the preparation of feasibility studies for development and investment projects.

16531 ESTIMATING 1
2 year hours
Prerequisites: 16112 Construction 2P or 16101 Construction 2F, 16542 Quantities 2 or 16504 Quantity Surveying 2

Estimating brings together a wide variety of construction industry practices and principles, particularly those of the operating trades, and translates these practices into costs. The builder's estimate, and the relevant unit rates, are related to the quantity surveyor's methods of measurement.

16532 ESTIMATING 2
2 year hours
Prerequisite: 16531 Estimating 1

A review of the techniques used in preparation of competitive tenders for building projects is undertaken. Specifically, tendering objectives, methods of preparing estimates and methods of predicting optimum mark-up are examined in detail.

16541 QUANTITIES 1
1.5 year hours

An introduction to quantity surveying purposes and methods. The measurement and calculation of quantities.

16542 QUANTITIES 2
2 year hours
Prerequisite: 16541 Quantities 1

Measurement of work involving most trades from documents prepared by the School.

16601 CONTEXTUAL STUDIES 1
2 year hours

The relationship of people to the physical environment. The function of human and natural systems; their responses. The environmental impact of cities.

16602 CONTEXTUAL STUDIES 2
2 year hours

Social and political systems in the urban situation. Urban planning.

16611 BUILDING DESIGN
2 year hours
Prerequisite: 16601 Contextual Studies 1

An examination of the parameters that affect building design; the problems that architects face in designing buildings; case studies of design, both professional and other. Design exercises.

16701 MATERIALS 1
2 year hours

An introductory course on the properties of building materials. Most commonly used materials are covered, but not in depth.

16702 MATERIALS 2
2 year hours
Prerequisite: 16701 Materials 1

A detailed course in concrete technology emphasising those aspects of concrete properties which are relevant to the building site. The properties and uses of those metals commonly used in building. The properties and uses of mastics and sealants. Properties of surface coatings.

16711 BUILDING SCIENCE
1 year hour

The physics of heat, light and sound are covered with reference to applications in buildings.

16801 LEGAL STUDIES 1
2 year hours

The legal system in Australia; sources of law; the court system; legal personalty; the law of business association; an introduction to criminal law, civil law, industrial law and the law of torts, commercial arbitration and insurances. A detailed study of contract law.

16802 LEGAL STUDIES 2
2 year hours
Prerequisite: 16801 Legal Studies 1

The tortious liability imposed by the law upon professionals, some major contractual problems and an outline of private land and statutory industrial regulations.

16901 STRUCTURES 1
2 year hours

Equilibrium; properties of sections; axial stress and strain; bending moment and shear force; bending and shear stress deflection.

16902 STRUCTURES 2
3 year hours
Prerequisite: 16901 Structures 1

Loading; structural timber, structural steel, soil properties, soil mechanics, small retaining walls, temporary soil retaining structures.

16903 STRUCTURES 3
2 year hours
Prerequisite: 16902 Structures 2

Deformation of statically indeterminate structures; ultimate strength of reinforced concrete, stress in prestressed concrete, cracking in buildings, joint movements, computing.

BUILDING SERVICES CONCENTRATION
Two years full-time plus two years part-time

Note: This course is no longer on offer to new students.

Year 1
Year 2

Year 3 Part-time		**Hours/Week**
16305	Services 5	1.5
16311	Fire Technology	2.5
16404	Management 4	2
16511	Economic Management 1	3
16802	Legal Studies 2	2
Practical Experience Requirements		
16199	Building Experience	3

Year 4 Part-time		
16131	Professional Practice	1
16221	Project	4
16306	Services 6	2
16406	Management 6	2
16532	Estimating 2	2
Practical Experience Requirements		
16199	Building Experience	3

BUILDING SERVICES CONCENTRATION
Six years part-time

Year 1
Year 2

Year 3		**Hours/Week**
16302	Services 2	2
16303	Services 3	3
16402	Management 2	2
16601	Contextual Studies 1	2
16922	Structures 2S	2
Practical Experience Requirements		
16199	Building Experience	3

Year 4		
16304	Services 4	3
16531	Estimating 1	2
16602	Contextual Studies 2	2
16611	Building Design	2
16801	Legal Studies 1	2
Practical Experience Requirements		
16199	Building Experience	3

Year 5		
16305	Services 5	1.5
16311	Fire Technology	2.5
16404	Management 4	2
16511	Economic Management 1	3
16802	Legal Studies 2	2
Practical Experience Requirements		
16199	Building Experience	3

Year 6		
16131	Professional Practice	1
16221	Project	4
16306	Services 6	2
16406	Management 6	2
16532	Estimating 2	2
Practical Experience Requirements		
16199	Building Experience	3

SYNOPSES

16131 PROFESSIONAL PRACTICE
1 year hour

The history and definition of professionalism, the organisation of professions in the building field, responsibilities of consultant to client, third party and community, conditions of engagement, indemnity insurance.

16199 BUILDING EXPERIENCE
3 year hours

Students are required to accumulate at least the equivalent of 144 weeks of approved professional/industrial experience, concurrently with their studies, and will be required to satisfy the requirements of Faculty Board in the relevant Experience subject, as determined from time to time, in order to graduate.

16221 PROJECT
4 year hours

A major project, undertaken by each student involving the detailed study of an individual topic with the preparation of a comprehensive report.

16302 SERVICES 2
2 year hours
Prerequisite: 16301 Services 1

The effects of aural, visual and thermal performance of buildings on individuals, the design of buildings to produce particular environmental performances.

16303 SERVICES 3
3 year hours
Prerequisite: 16301 Services 1

Theory of fluid mechanics and hydraulic design of pipes and channels.

16304 SERVICES 4
3 year hours
Prerequisite: 16301 Services 1

Theory of thermodynamics and application to the design of air-conditioning systems.

16305 SERVICES 5
1.5 year hours
Prerequisite: 16301 Services 1

Design and installation of gas and electrical systems in accordance with theory and regulations.

16306 SERVICES 6
2 year hours

The co-ordination of the installation of services; overview of design and installation of all services.

16311 FIRE TECHNOLOGY
2.5 year hours
Prerequisite: 16303 Services 3

Fire fighting media and extinguishment; early warning systems; automatic sprinkler systems, fire growth and development pre- and post-flashover; fire hydrants and fire hose reels; fire prevention; emergency lighting.

16402 MANAGEMENT 2
2 year hours
Prerequisites: 16401 Management 1, 16111 Construction 1P or 16101 Construction 1F

Organisation theory, the individual in the workplace, leadership, needs hierarchy, motivation, communication, problem solving, organisational variables, buildability and construction planning of domestic scale projects.

16404 MANAGEMENT 4
2 year hours

The principles and practice of the writing and interpretation of specifications for building work; the impact of standard codes and building regulations; developments in the standardisation and computerisation of specifications. The administration of contracts. By case studies, an examination of the administrative requirements for efficient contracts.

16406 MANAGEMENT 6
2 year hours
Prerequisites: 16405 Management 5, 16802 Legal Studies 2

Building process as a system, project constraints, project management, complex project analysis, roles of licensing boards, advanced site safety, safety and design, industrial relations.

16511 ECONOMIC MANAGEMENT 1
3 year hours

Principles of accounting and business finance. Profit and loss statements; balance sheets; cash budgets, services of funds and financial decision making are examined in detail.

16531 ESTIMATING 1
2 year hours
Prerequisites: 16112 Construction 2P or 16102 Construction 2F, 16542 Quantities 2 or 16504 Quantity Surveying 2

Estimating brings together a wide variety of construction industry practices and principles, particularly those of the operating trades, and translates these practices into costs. The builder's estimate, and the relevant unit rates, are related to the quantity surveyor's methods of measurement.

16532 ESTIMATING 2
2 year hours
Prerequisite: 16531 Estimating 1

A review of the techniques used in preparation of competitive tenders for building projects is undertaken. Specifically, tendering objectives, methods of preparing estimates and methods of predicting optimum mark-up are examined in detail.

16601 CONTEXTUAL STUDIES 1
2 year hours

The relationship of people to the physical environment. The function of human and natural systems; their responses. The environmental impact of cities.

16602 CONTEXTUAL STUDIES 2
2 year hours

Social and political systems in the urban situation. Urban planning.

16611 BUILDING DESIGN
2 year hours
Prerequisite: 16601 Contextual Studies 1

An examination of the parameters that affect building design; the problems that architects face in designing buildings; case studies of design, both professional and other. Design exercises.

16801 LEGAL STUDIES 1
2 year hours

The legal system in Australia; sources of law; the court system; legal personalty; the law of business association; an introduction to criminal law, civil law, industrial law and the law of torts, commercial arbitration and insurances. A detailed study of contract law.

16802 LEGAL STUDIES 2
2 year hours
Prerequisite: 16801 Legal Studies 1

The tortious liability imposed by the law upon professionals, some major contractual problems and an outline of private land and statutory industrial regulations.

16922 STRUCTURES 2S
1.5 year hours
Prerequisite: 16901 Structures 1

Loading, structural steel beams and columns in relation to services, reinforced concrete beams, slabs and columns and services penetrations.

COURSE ADVISORY COMMITTEE

Building

Ex-Officio Members

Head, School of Building Studies
D.J. Lenard (Chair)
Dean, Faculty of Design, Architecture and Building
V. Ireland
Head, School of Architecture
W. Barnett
Registrar and Secretary's Representative
Vacant

Other Members

K. Jubelin, Building Services Corporation
J. Palmer, T.A. Taylor & Son
W. Parker, Safin Pty Ltd
W.A.C. Service, Leighton Contractors Pty Ltd
J. Sloman, Civil and Civic Pty Ltd
P. White, Concrete Constructions Pty Ltd

Nominees of the Following Organisations

Australian Institute of Building
R.A. Swane
Department of Architectural Science, University of Sydney
B. Forwood
Department of Local Government
R. Loveridge
Master Builders Association of NSW
A. Stewart
School of Building, University of NSW
G. Levido
Quantity Surveying Course Advisory Committee Nominee

BACHELOR OF APPLIED SCIENCE - (LAND ECONOMICS)

The objectives of the Land Economics course are:

(i) to produce a broadly educated graduate prepared for a career in the management of change in the use of real property;

(ii) to equip students with an understanding of the agencies, principles, and processes required in order that they can fill a professional role as valuer, real estate agent, property manager, or a number of these;

(iii) to develop the skills and techniques required to initiate, appraise and administer proposals for the protection, maintenance, and development of the physical environment;

(iv) to develop an appreciation of a professional ethic which emphasises responsibility and responsiveness to community needs;

(v) to provide knowledge of individual, social, political, economic, administrative, legal and physical systems which collectively contribute to the success or failure of the processes of land use management.

The course satisfies the educational requirements for licensing as a real estate agent, registration as a valuer and practice as a property manager or project manager.

The Land Economics course is offered part-time, or full-time and part-time.

Two years full-time plus two years part-time:

Year 1		**Hours/Week**
16161	Mathematics and Statistics	2
16162	Computing	2
16351	Introduction to Valuation	1.5
16361	Real Estate Fundamentals	2
16451	Communications	1
16551	Economics	3
16552	Financial and Trust Accounting	3
16652	Environmental Design	2
16851	Introduction to Law	2
Practical Experience Requirements		
16999	Land Economics Experience	3

Year 2

16152	Surveying	1
16153	Building Technology	3
16352	Valuation Methodology	2
16354	Rural Valuation	2
16453	Development Management	1.5
16456	Property Management and Maintenance	3
16553	Real Estate Finance	2
16651	Urban Planning	1.5
16853	Planning and Environmental Law	2
16854	Real Estate Law and Conveyancing	2
Practical Experience Requirements		
16999	Land Economics Experience	3

Year 3 Full-time/Part-time

16155	Facility Evaluation	2
16355	Specialised Valuation Topics	2
16454	Investment and Portfolio Management	1.5
16554	Urban Economics	2
16751	International Real Estate	1.5
Practical Experience Requirements		
16999	Land Economics Experience	3

Year 4 Full-time/Part-time

16353	Advanced Valuation Methods	2
16356	Statutory Valuation and Litigation	1.5
16452	Real Estate Organisation and Management Theory	1.5
16455	Professional Practice Review	2
16961	Project	4
Practical Experience Requirements		
16999	Land Economics Experience	3

Six years part-time

Year 1		**Hours/Week**
16161	Mathematics and Statistics	2
16351	Introduction to Valuation	1.5
16361	Real Estate Fundamentals	2
16451	Communications	1
16551	Economics	3
Practical Experience Requirements		
16999	Land Economics Experience	3

Year 2

16162	Computing	2
16352	Valuation Methodology	2
16552	Financial and Trust Accounting	3
16851	Introduction to Law	2
Practical Experience Requirements		
16999	Land Economics Experience	3

Year 3

16152	Surveying	1
16153	Building Technology	3
16355	Specialised Valuation Topics	2
16553	Real Estate Finance	2
16854	Real Estate Law and Conveyancing	2
Practical Experience Requirements		
16999	Land Economics Experience	3

		Hours/Week
Year 4		
16354	Rural Valuation	2
16453	Development Management	1.5
16456	Property Management and Maintenance	3
16651	Urban Planning	1.5
16853	Planning and Environmental Law	2
Practical Experience Requirements		
16999	Land Economics Experience	3
Year 5		
16155	Facility Evaluation	2
16454	Investment and Portfolio Management	1.5
16554	Urban Economics	2
16652	Environmental Design	2
16751	International Real Estate	1.5
Practical Experience Requirements		
16999	Land Economics Experience	3
Year 6		
16153	Advanced Valuation Methods	2
16356	Statutory Valuation and Litigation	1.5
16452	Real Estate Organisation and Management Theory	1.5
16455	Professional Practice Review	2
16961	Project	4
Practical Experience Requirements		
16999	Land Economics Experience	3

SYNOPSES

16152 SURVEYING
1 year hour

The interpretation of survey plans; types of surveys; use of instruments; aerial photography.

16153 BUILDING TECHNOLOGY
3 year hours

Technology of components and elements of domestic, commercial and industrial buildings, both low and high rise; structures; facades; partitions; services. Relevance of ordinances. Aspects of refurbishing.

16155 FACILITY EVALUATION
2 year hours

The objective is to assess the effects of aspects of the design of buildings on user comfort, energy usage, aesthetics and safety; orientation, use of materials, layout, services. Ageing of buildings. Relationships of buildings to structures.

16161 MATHEMATICS AND STATISTICS
2 year hours

The study of mathematical and statistical tools required for land economics; equations solution; indices and surds; logarithms; graphs, coordinate geometry; trigonometry; simple differentiation and integration. Descriptive statistics; probability; regression and multiple regression; time series analysis; statistical inference.

16162 COMPUTING
2 year hours

Introduction to computing: BASIC language and writing of simple programmes; problem solving techniques; use of software packages such as word processing, spreadsheet and statistical applications.

16351 INTRODUCTION TO VALUATION
1.5 year hours

An introduction to the valuation profession, its role and function within the real property industry. Basic methodology and technical tools of the valuer will also be studied.

16352 VALUATION METHODOLOGY
2 year hours
Prerequisites: 16351 Introduction to Valuation, 16161 Mathematics and Statistics, 16361 Real Estate Fundamentals

An indepth study of the role, functions and obligations of the valuation profession. Areas studied include: methods of valuation; time value of money; measures of rates of return; resumption and acquisition values.

16353 ADVANCED VALUATION METHODS
2 year hours

The subject is designed to provide an extensive and indepth knowledge of real estate feasibility studies for development and investment projects.

16354 RURAL VALUATION
2 year hours

An indepth study of the purpose and methodology of valuing non-urban and rural properties. Introduction to the importance of agriculture to the Australian economy.

16355 SPECIALISED VALUATION TOPICS
2 year hours
Prerequisite: 16352 Valuation Methodology

An indepth study of the more specialised areas in the valuation profession. Capitalisation, summation and replace cost approaches are developed.

16356 STATUTORY VALUATION AND LITIGATION
1.5 year hours

Valuation case law is discussed. Expert witness testimony and specialist report writing are covered with particular reference to professional negligence.

16361 REAL ESTATE FUNDAMENTALS
2 year hours

An introduction to the real estate industry including the main institutions, aspects of law and economic town planning and statutory controls, roles played by the public sector, analysis of the market.

16451 COMMUNICATIONS
1 year hour

This subject is intended to develop human communication skills and to promote understanding of the communication process. Emphasis is on business writing and effective speech communication. Intensive writing practice will be related to communication principles. Teaching will be by lecture for communication principles and in small group workshops for writing and oral communication.

16452 REAL ESTATE ORGANISATION AND MANAGEMENT THEORY
1.5 year hours
Prerequisite: 16361 Real Estate Fundamentals

Examination of the relevance of organisation theory to real estate, valuation and property departments: contributions of various theorists; technology, motivation, group behaviour, structure, goals, analysis of various organisational forms.

16453 DEVELOPMENT MANAGEMENT
1.5 year hours
Prerequisite: All year 1 and 2 subjects part-time / year 1 full-time

Aspects of the management of projects under development: client needs determination; procurement methods; design management including cost planning and buildability; approvals management.

16454 INVESTMENT AND PORTFOLIO MANAGEMENT
1.5 year hours
Prerequisite: All year 1 to 4 subjects part-time / year 1 to 2 full-time

Indepth study of the methods and techniques of real estate market and feasibility studies. A study of portfolio management with an introduction to the techniques of investment and portfolio analysis.

16455 PROFESSIONAL PRACTICE REVIEW
2 year hours

Definition of responsibilities of consultant to client, third party and community; conditions of engagement; indemnity insurance.

16456 PROPERTY MANAGEMENT AND MAINTENANCE
3 year hours
Prerequisite: Completion of years 1-3 part-time

The management of large complex properties. Development and administration of systems for market research, rent collection, tenancy management, investment taxation and negotiation. Development of maintenance standards for and estimate of live components of buildings. Maintenance budgets; assessing the effects of design on maintenance and recording operating cycles of plant and equipment.

16551 ECONOMICS
3 year hours

Microeconomics - largely traditional microeconomic theory but with property market slant. Each topic covered, e.g. consumer equilibrium theory, production theory, competition theory, and resource pricing theory, is directly and indirectly related to the property market to ensure student understanding of the relevance and application of each concept.

An introduction to Macroeconomics. Analytical tools are developed to provide insight into the nature and causes of major problems currently confronting Australia. The interrelationship of macroeconomic variables as well as the influence of microeconomic reform on the economy's overall efficiency is emphasised. Application to the property market is stressed in each topic covered.

16552 FINANCIAL AND TRUST ACCOUNTING
3 year hours

An introduction to basic accounting: the preparation and use of accounting information; the tools used.

Accounting concepts related to partnerships, corporations, manufacturing enterprise; accounting related to business funds and cash flows; trust accounting; use of data processing.

16553 REAL ESTATE FINANCE
2 year hours

An overview of the corporate financial system in Australia; concepts and techniques of financial evaluation; time value of money; risk management; financing of investments.

Real estate investment analysis and methods of financing. The institutional structure of financing; primary and secondary mortgage markets; financing techniques.

16554 URBAN ECONOMICS
2 year hours
Prerequisite: 16551 Economics

Economic theories of land use including location theory, urbanisation, demographics of cities, role of levels of government, urban problems, decentralisation and transportation.

16651 URBAN PLANNING
1.5 year hours

Introduction to the fundamental concepts about the structure and functioning of social organisations. The forms, functions, and dysfunctions of social differentiations, cross-culturally, and the social distinction arising from sex, age, ethnicity and race. Casts and class, indicators of class, consequences of stratification and mobility are also examined.

16652 ENVIRONMENTAL DESIGN
2 year hours

Introduction to the history of architecture and building design as an art form. The relationship of mankind to the physical environment. The function of human and natural systems; their responses. The environmental impact of cities.

16751 INTERNATIONAL REAL ESTATE
1.5 year hours

An examination of foreign investment in the real estate markets with particular focus on Australia and the Pacific regions.

16851 INTRODUCTION TO LAW
2 year hours

The structure and functioning of the Australian legal system: structure of the court system; the sources of law; statute and case law; the notion of precedent. An introduction to common law; the law of business association, commercial arbitration and insurance, especially contract law applicable to building and engineering works.

16853 PLANNING AND ENVIRONMENTAL LAW
2 year hours
Prerequisite: 16851 Introduction to Law

Social theory: analysis of planning theories; and environmental law; individual theories examined: contributions of theories to understanding society. Social values in Australia: effects of values and socialisation on behaviour norms. Housing in Australia: desired attributes; government policies. Public participation in community development. Resident actions. Effects of planning on individuals.

Introduction to the design of subdivisions: drainage; road and services design.
Transportation and its effects.

16854 REAL ESTATE LAW AND CONVEYANCING
2 year hours
Prerequisite: Completion of years 1 and 2 part-time / year 1 full-time

The principles and details of real estate law including: the law relating to agents; consumer protection; sale of goods and trade practices legislation. Principles associated with the transfer and acquisition of property. Titles of property.

16961 PROJECT
4 year hours

A detailed study, under supervision, of an individual topic with the presentation of a comprehensive report.

16999 LAND ECONOMICS EXPERIENCE
3 year hours

Students are required to accumulate at least the equivalent of 440 days of approved professional experience, concurrently with their studies, and will be required to satisfy the requirements of Faculty Board in the relevant Experience requirement, as determined from time to time, in order to graduate.

COURSE ADVISORY COMMITTEE
Land Economics and Urban Estate Management

Ex-Officio Members

Head, School of Building Studies
D. Lenard (Chair)
Dean, Faculty of Design, Architecture and Building
V. Ireland
Head, Department of Land Economics
Vacant
Postgraduate Course Leader, School of Building Studies
H. MacLennan

Organisation Representatives

Society of Land Economists Ltd
Valuer General's Dept
Real Estate Services Board
Council of Auctioneers & Agents
- Two representatives
Real Estate Valuers Registration Board
F. Egan
Aust. Institute of Valuers
Dept of Environment & Planning
Faculty of Business & Land Economy,
University of Western Sydney
Aust. Institute of Quantity Surveyors
Building Owners & Managers Assoc. (NSW)
Stock & Station Agents Assoc. of NSW
Vacant
Real Estate Institute of NSW

Nominees of the Following Organisations

Lend Lease Development
J. Banek
Jones Lang Wootton
Vacant
School of BAS, TAFE
R. Mellor
Australian Mutual Provident Society
J. Ritch
GIO Investments Property Management
W. Scicluna
Baillieu Knight Frank
C. Weir

BACHELOR OF APPLIED SCIENCE (QUANTITY SURVEYING)

The Quantity Surveyor is concerned with the measurement and definition of proposed building work for contractual and payment purposes and, with an increasing role as building economist, is involved in the financial side of feasibility studies and with the planning and control of the cost of projects.

The Quantity Surveying Degree Course comprises six stages of 'Flexi-Pattern attendance'. Stages may be undertaken by either a 'normal' or 'accelerated' attendance pattern. 'Normal' pattern comprises one stage per year, plus approved full-time employment. 'Accelerated' pattern comprises two stages per year, plus work experience for one day/week. Progress through the course requires practical experience credit point thresholds to be achieved.

Industrial Experience

Concurrent industrial experience is a course requirement and students have to obtain 144 industrial experience units (IEU) before graduation. The normal attendance pattern involves undertaking one stage of the course whilst in approved full-time employment and this attracts 48 IEU's. An accelerated attendance may be approved (24 IEUs per year) provided 24 IEUs are obtained by the end of Stage 2, 72 IEUs by the end of Stage 4 and 144 IEUs by the end of Stage 6. In exceptional cases advanced standing may be granted for substantial experience prior to entering the course. Where an accelerated attendance pattern is chosen approved work experience is required which will be supplemented with assignments and activity reports.

Flexi-pattern

Stage 1		**Hours/Week**
16111	Construction 1P	2.5
16161	Mathematics and Statistics	2
16501	Quantity Surveying 1	2.5
16721	Materials Science	3
Stage 2		
16112	Construction 2P	2
16162	Computing	2
16301	Services 1	3
16502	Quantity Surveying 2	3
		Minimum 24 IEUs

Stages 1 and 2 may be undertaken concurrently ('accelerated' pattern)

Stage 3		
16113	Construction 3P	2
16503	Quantity Surveying 3	3
16531	Estimating 1	2
16621	Design Evaluation	3
Stage 4		
16114	Construction 4P	2
16521	Building Economics 1	3

16622 Environmental Planning 3
16801 Legal Studies 1 2
Minimum 72 IEUs

Stages 3 and 4 may be undertaken concurrently ('accelerated' pattern)

Stage 5
16222 QS Project 1 2
16411 Contract Administration 3
16522 Building Economics 2 2
16802 Legal Studies 2 2
16511 Economic Management 1 3

Stage 6
16223 QS Project 2 2
16506 Quantity Surveying Practice 3
16512 Economic Management 2 2
16523 Building Economics 3 3
16532 Estimating 2 2
Minimum 144 IEUs

Stages 5 and 6 may be undertaken concurrently ('accelerated' pattern)

All years
16599 Quantity Surveying Experience 3

SYNOPSES

16111 CONSTRUCTION 1P
2.5 year hours

Every part of typical domestic buildings is covered in detail. Reference is made to the relevant ordinances and standards. The present day building industry is placed in its historical context by reference to building practices through the ages.

16112 CONSTRUCTION 2P
2 year hours
Prerequisite: 16111 Construction 1P

The construction details for industrial and commercial (including multi-storey) buildings.

16113 CONSTRUCTION 3P
2 year hours
Prerequisite: 16112 Construction 2P or 16101 Construction 1F

The construction details for industrial and commercial (including multi-storey) buildings. Construction equipment and methods.

16114 CONSTRUCTION 4P
2 year hours
Prerequisite: 16113 Construction 3P

Construction methods, temporary works, building regulations.

16161 MATHEMATICS AND STATISTICS
2 year hours

The study of mathematical and statistical tools required for land economics: equations solution; indices and surds; logarithms; graphs, coordinate geometry; trigonometry; simple differentiation and integration.

Descriptive statistics; probability; regression and multiple regression; time series analysis; statistical inference.

16162 COMPUTING
2 year hours

Introduction to computing: BASIC language and writing of simple programmes; problem solving techniques; use of software packages such as word processing, spreadsheet and statistical applications.

16222 QUANTITY SURVEYING PROJECT 1
4 year hours

Commencement of the preparation of a major project involving the detailed study of an individual topic in the field of quantity surveying.

16223 QUANTITY SURVEYING PROJECT 2
2 year hours
Prerequisite: Quantity Surveying 1

Completion of the project selected in Quantity Surveying 1, involving the submission of a comprehensive report.

16301 SERVICES 1
3 year hours

An introduction to hydraulic, electrical, mechanical and fire protection services and systems.

16411 CONTRACT ADMINISTRATION
3 year hours
Prerequisite: 16801 Legal Studies 1

The principles and practice involved in the administration of building contracts from the quantity surveyor's viewpoint, including preparation of variations, progress claims, activity reports, cash flows and package-deal documentation. Building price indices, cost escalation and rise and fall. General conditions of contract. Speci-

fication writing. Construction planning for residential projects.

16501 QUANTITY SURVEYING 1
2.5 year hours

An introduction to quantity surveying purposes and methods. The measurement and calculation of simple quantities. Principles of measurement set-out and notation. Professional quantity surveying activities and opportunities, including membership of the Australian Institute of Quantity Surveyors. Written communication skills.

16502 QUANTITY SURVEYING 2
3 year hours
Corequisite: Quantity Surveying 1

The preparation and uses of a bill of quantities and types of documentation formats in common use. The acquiring of competence in preparing trade packages within a bill of quantities in accordance with the current Australian Standard Method of Measurement of Building Works. Measurement rules and procedures.

16503 QUANTITY SURVEYING 3
3 year hours
Prerequisite: Quantity Surveying 2

Measurement of complex building trades, specifically hydraulics and bulk earthworks, in accordance with the current Australian Standard Method of Measurement. Measurement of civil projects in accordance with AS1181-1982. Computer measurement benefits and problems. Alternative methods of measurement.

16506 QUANTITY SURVEYING PRACTICE
Three year hours

A critical evaluation of the quantity surveying profession and an examination of non-technical areas essential to a profession.

16511 ECONOMIC MANAGEMENT 1
3 year hours

Principles of accounting and business finance. Profit and loss statements; balance sheets; cash budgets, services of funds and financial decision making are examined in detail.

16512 ECONOMIC MANAGEMENT 2
2 year hours

The financial control of construction projects which involves variances, budgets and development of various systems of control. The second part of the subject concentrates on the preparation of feasibility studies for development and investment projects.

16521 BUILDING ECONOMICS 1
3 year hours

An examination of principles and practices relating to building economics, including feasibility studies, cost planning, preliminary estimating, elemental cost analysis and budgeting. Cost modelling techniques and expert systems are discussed. Computer solutions are used to solve cost problems.

16522 BUILDING ECONOMICS 2
2 year hours

Basic macro and micro economic theories and their relationship with building economics are examined. Analysis of the economic forces that underlie design and construction processes. Investment in residential property.

16523 BUILDING ECONOMICS 3
3 year hours
Prerequisite: Building Economics 1

Techniques used by building economists in evaluating design alternatives are examined, specifically life-cost planning, taxation cost planning, cost-benefit analysis, multi-objective decision analysis, value analysis and post-occupancy evaluation.

16531 ESTIMATING 1
2 year hours
Prerequisites: 16112 Construction 2P or 16101 Construction 1F, 16542 Quantities 2 or 16504 Quantity Surveying 2

Estimating brings together a wide variety of construction industry practices and principles, particularly those of the operating trades, and translates these practices into costs. The builder's estimate, and the relevant unit rates, are related to the quantity surveyor's methods of measurement.

16532 ESTIMATING 2
2 year hours
Prerequisite: 16531 Estimating 1

A review of the techniques used in preparation of competitive tenders for building projects is undertaken. Specifically, tendering objectives, methods of preparing estimates and methods of predicting optimum mark-up are examined in detail.

16599 QUANTITY SURVEYING EXPERIENCE
3 year hours

Students are required to accumulate at least the equivalent of 144 weeks of approved professional experience, concurrently with their studies, and will be required to satisfy the requirements of Faculty Board in the relevant Experience subject, as determined from time to time, in order to graduate.

16621 DESIGN EVALUATION
3 year hours

An examination of the factors that affect building design; the problems that architects face in designing buildings; building orientation and thermal performance. Sun path diagrams. Solar and earth-sheltered housing. Structural evaluation of building systems. Design exercises.

16622 ENVIRONMENTAL PLANNING
3 year hours

Contextual issues relating to man's impact on the environment. Urban planning and sociology. Environmental impact statements. Economic theories of land use including urbanisation, effects of controls, provision of services, rehabilitation and renewal, welfare provision, transportation and decentralisation. Legal aspects of town planning.

16721 MATERIALS SCIENCE
3 year hours

An introductory course in the properties of building materials. Most commonly used materials are covered but not in depth. Heat, light and sound principles applied to materials are investigated.

16801 LEGAL STUDIES 1
2 year hours

The legal system in Australia; sources of law; the court system; legal personalty; the law of business association; an introduction to criminal law, civil law, industrial law and the law of torts, commercial arbitration and insurances. A detailed study of contract law.

16802 LEGAL STUDIES 2
2 year hours
Prerequisite: 16801 Legal Studies 1

The tortious liability imposed by the law upon professionals, some major contractual problems and an outline of private land and statutory industrial regulations.

COURSE ADVISORY COMMITTEE

Quantity Survying

Ex-Officio Members

Head, School of Building Studies
D.J. Lenard (Chair)
Dean, Faculty of Design, Architecture and Building
V. Ireland
Head, Department of Quantity Surveying
C.F. Roberts
Registrar and Secretary's Representative
Vacant

Other Members

G. Brookes, Leighton Contractors Pty Ltd
J. Burgess, Burgess & Partners Pty Ltd
S. Cox, Travis Partners Pty Ltd
E.B. Davies, Bayley Davies Associates Pty Ltd
V. Shaw, Rider Hunt & Partners
D.R. Summers, Harding, Widnell & Trollope
P. Woollard, Concrete Constructions (NSW) Pty Ltd

Nominees of the Following Organisations

Department of Administrative Services
Public Works Department
School of Building, University of NSW

GRADUATE COURSES

The school offers a limited number of places each year for suitably qualified students to read for the degree of Master of Applied Science by Thesis, in any of its disciplines.

To qualify for admission to a Masters Degree programme, applicants shall possess a Bachelors Degree of the University of Technology, Sydney, or an equivalent degree from another recognised tertiary education institution.

Non-graduates with outstanding professional qualifications may also apply and may be required to complete some undergraduate studies during a qualifying period prior to acceptance.

MASTER OF PROJECT MANAGEMENT

Project Management has emerged as a powerful method for administering complex tasks. It has been used to manage most of the large building and construction projects in this country. It is increasingly used in other industries and technologies to facilitate efficient and effective completion of complex tasks. As projects have become more complex and costly the need for greater efficiency in terms of cost, time and quality performance has become evident. Good management practices are generally enhanced by a sound, appropriate educational background. The purpose of the course is to provide such a background.

Aims

The aims of this course in Project Management are to produce project managers who shall be:

(a) competent to lead a group of specialist professionals engaged in the overall management planning and control of projects, particularly in building or civil engineering, but not excluding other industries or technologies;
(b) able to demonstrate an understanding of project management principles and practices in the management of the design and construction process and project delivery;
(c) able to demonstrate an understanding of the roles and practices of specialist consultants and contractors used in the design and construction of projects and how these can be effectively integrated;
(d) able to communicate effectively, and lead and motivate individuals and project teams;
(e) able to make decisions on the basis of either complete or incomplete information, and to formulate policies and/or solutions to complex problems;
(f) able to satisfy economic, social, financial, legal, environmental and building constraints;
(g) able to estimate the social costs and benefits of development and the community acceptance of this.

Teaching/Learning Strategies

The three year, part-time programme, unique to Australia, has been designed with ten week-unit attendance sessions so that senior executives and industry leaders can attend the course with minimal disruption to their working lives.

The programme is stimulating and demanding and has been designed for students who already have a degree and at least five years' experience.

The course consists of three parts. The first part contains the core subjects of generic project management, that is, project management which is independent of industry or technology. This will be presented by way of course work and assignments occupying the whole of the first three semesters.

The second part comprises significant blocks of the core subjects treated in greater detail, and on an industry-specific basis, with the building/construction industry as the primary exemplar industry. This will also be presented by way of coursework and assignments, and will occupy the fourth and fifth semesters. The sixth semester is set aside for the completion of a major project. In summary, the course structure resembles a project, the project process, its context and the management thereof.

Semester 1		**Hours/Semester**
17101	Project Process 1	24
17102	Project Management Science 1	24
17103	Project Context 1	16
17104	Specialist Studies 1	16
Semester 2		
17201	Project Process 2	24
17202	Project Management Science 2	24
17203	Project Context 2	16
17204	Specialist Studies 2	16
Semester 3		
17301	Project Process 3	24
17302	Project Management Science 3	24
17303	Project Context 3	16
17304	Specialist Studies 3	16
Semester 4		
17401	Building and Construction Project Process	30

17402	Building and Construction Project Management Practice 1	14
17403	Building and Construction Project Context	14
17404	Building and Construction Specialist Studies 1	12
17600	Major Report (Research Methodology)	10

Semester 5

17502	Building and Construction Project Management Practice 2	25
17504	Building and Construction Specialist Studies 2	25
17505	Building and Construction Specialist Studies 3	20
17600	Major Report (Research Methodology)	10

Semester 6

17600	Major Report	80

SYNOPSES

17101 PROJECT PROCESS 1
1.5 semester hours

Introduction to the four major generic phases of the project process (sometimes called the project life cycle); discussion of the first of these phases, project initiation and concept, in detail. Including basic needs determination, feasibility of alternative solutions, leading to product requirement determination, and approvals.

17102 PROJECT MANAGEMENT SCIENCE 1
1.5 semester hours

Examination of the first four generic project management functions most relevant to Project Process 1, namely time, cost, quality and risk management, plus the management of integration of these functions.

17103 PROJECT CONTEXT 1
1 semester hour

Identification of the general environmental constraints which impinge on projects, and examination of some aspects most relevant to Project Process 1, including economic constraints.

17104 SPECIALIST STUDIES 1
1 semester hour

The project organisation as an open system; the five primary subsystems, namely goals and values, structural, psycho-social, technology and management.

17201 PROJECT PROCESS 2
1.5 semester hours

The second of the four major generic phases of the project process: project planning and development, including institution of planning and controls, concept development, design and documentation, prototyping and approvals.

17202 PROJECT MANAGEMENT SCIENCE 2
1.5 semester hours

Examination of three further generic project management functions which are particularly relevant to Project Process 2, namely management of project scope, decision making and project organisation.

17203 PROJECT CONTEXT 2
1 semester hour

Examination of three further environmental constraints identified in Project Context 1, namely financial, political and legal constraints.

17204 SPECIALIST STUDIES 2
1 semester hour

Economic and financial aspects as they apply specifically to projects.

17301 PROJECT PROCESS 3
1.5 semester hours

The third and fourth of the four major generic project processes, namely project execution and implementation, and project commissioning and handover.

17302 PROJECT MANAGEMENT SCIENCE 3
1.5 semester hours

Examination of the three remaining generic project management functions, namely the management of project human resources, its closely associated function communications, and the management of project contracts and procurement.

17303 PROJECT CONTEXT 3
1 semester hour

Examination of the last two of the environmental constraints identified in Project Context 1, namely sociological/demographic and physical; and marketing and technology in the context of projects.

17304 SPECIALIST STUDIES 3
1 semester hour

Legal aspects applying specifically to projects and project organisations; some specific aspects of marketing at the project level; corporate social responsibility in project management; and computer applications in project management.

17401 BUILDING & CONSTRUCTION PROJECT PROCESS
2 semester hours

The four phases of the project process as they apply specifically to building and construction, namely initiation and concept, planning and development, project execution and implementation, and project commissioning and handover.

17402 BUILDING & CONSTRUCTION PROJECT MANAGEMENT PRACTICE 1
1 semester hour

Examination of seven of the basic project management functions as they apply specifically in building and construction, namely time, cost, quality, risk and scope management, management of project decision making, and management of project organisations.

17403 BUILDING & CONSTRUCTION PROJECT CONTEXT
1 semester hour

Examination of certain factors and constraints which are especially relevant to building and construction projects, namely town planning principles, building project law, approvals management, construction economics and finance, and aspects of construction technology.

17404 BUILDING & CONSTRUCTION SPECIALIST STUDIES 1
1 semester hour

Detailed examination of two specific topics from the project process which are particularly important in the context of building and construction, namely feasibility studies, and aspects of property management and project marketing.

17502 BUILDING & CONSTRUCTION PROJECT MANAGEMENT PRACTICE 2
2 semester hours

An examination of the remaining basic project management functions as they apply specifically to building and construction projects, namely management of project resources, management of project human resources, management of project communications, including building project negotiation, and management of construction project contracts and procurement.

17504 BUILDING & CONSTRUCTION SPECIALIST STUDIES 2
2 semester hours

Detailed examination of three further topics of particular importance for building and construction projects, namely planning methods and techniques, post-project analysis, and occupational health and safety.

17505 BUILDING & CONSTRUCTION SPECIALIST STUDIES 3
1.5 semester hours

Examination of industrial relations, and related matters, in the context of building and construction, namely industrial arbitration, organisations and policies, dispute resolution and cost of disputes.

17600 MAJOR REPORT (RESEARCH METHODOLOGY)
5.5 semester hours

A major study undertaken by each student and equal in value to 50% of the Degree, involving a detailed study of an individual topic and the preparation of a comprehensive report.

GRADUATE DIPLOMA OF URBAN PLANNING; MASTER OF URBAN PLANNING

Two new part-time postgraduate courses, taught by coursework, are proposed for 1991.

Attendance

The course involves full-time attendance of several one-week units over a period of two years (Graduate Diploma) or three years (Masters). This allows an intensive, integrated multidisciplinary approach structured around project work. Busy practitioners and other professionals, including those living in the country or interstate, will thus be able to attend the course.

Aims

The units within the course and the course as a whole will:

- address the major social and environmental issues of the cities and regions;
- emphasise the economics and the practicalities of how urban development takes place;

- treat the processes of statutory planning and development control as subjects of academic enquiry;
- adopt an integrated, skills-based educational approach; and
- provide practical experience of innovative planning techniques.

The Educational Approach

The above aims can best be met if a significant part of the course emulates planning practice. This is feasible in a part-time course if the students have had relevant work experience since gaining an appropriate first degree, if they are concurrently working in a related area, and if the attendance pattern provides for periods of full-time participation in lectures, seminars and group project work.

The core subject is urban planning, where the knowledge and ideas are put into practice, and where experience is gained in the techniques and methods of urban planning. This subject is built around a planning project. A site will be chosen which is sufficiently large and complex to raise questions of ownership, infrastructure, urban transport, environmental impact, social impact, heritage, regional implications, land use, built form, plan preparation, and development control. The other subjects have been structured to provide knowledge, context, concepts and techniques which can be applied in the project work.

The culmination of the course is a major planning project undertaken by a project team. Each team member will be responsible for an aspect of the project which will involve that individual in a major study and the preparation of a comprehensive report. This approach emulates planning practices in which the contributions of individual team members or consultants must be of high quality, and at the same time must be co-ordinated with the work of all the others to produce an integrated product.

Semester 1

Units 1 and 2		**Hours/Semester**
17510	Planning 1	32
17511	Urban Economics and Finance 1	16
17512	Environment and Infrastructure 1	16
17513	Urban Design and Management 1	16
17514	Law for Planners 1	16

Semester 2

Units 3 and 4		
17520	Planning 2	32
17521	Urban Economics and Finance 2	16
17522	Environment and Infrastructure 2	16
17523	Urban Design and Management 2	16
17524	Social and Political Aspects 1	16

Semester 3

Units 5 and 6		
17530	Planning 3	32
17531	Urban Economics and Finance 3	16
17532	Environment and Infrastructure 3	16
17533	Urban Design and Management 3	16
17534	Social and Political Aspects 2	16

Semester 4

Units 7 and 8		
17540	Planning 4	32
17541	Urban Economics and Finance 4	16
17542	Environment and Infrastructure 4	16
17543	Urban Design and Management 4	16
17544	Law for Planners 2	16
-	Graduate Diploma in Planning	

Semester 5

17750	Planning 5	48
17751	Specific Issues in Planning	16
17755	Graduate Project	32

Semester 6

17755	Graduate Project	100
-	Masters Degree	

SYNOPSES

17510 PLANNING 1
2.5 semester hours

The investigation of a major and complex site, through the documentation of its physical characteristics and its social and environmental context; the development of ideas for the site; the preparation of briefs and contracts; the development of skills in relevant aspects of planning practice.

17511 URBAN ECONOMICS AND FINANCE 1
1 semester hour

The concepts of micro and macro economics, and the analysis of externalities in an urban and regional context; the institutionalist and property rights approaches to land use regulation; market analysis and appraisal.

17512 ENVIRONMENT AND INFRASTRUCTURE 1
1 semester hour

The physical environment and development: ecology,

geomechanics, climate and noise measurement, with an examination of erosion, water pollution, solar access, air quality, wind effects and noise pollution; the source of design criteria for urban development.

17513 URBAN DESIGN AND MANAGEMENT 1
1 semester hour

Historiography; urban history, the history of state and local government in NSW, and local history. Aspects of the history of state regulation of urban development, of the history of town planning and the planning profession, and the ideologies of planning.

17514 LAW FOR PLANNERS 1
1 semester hour

(a) Environmental law. Relating to the air, water, waste and heritage; the law and practice of environmental impact assessment; the jurisdictions and procedures of the relevant courts.
(b) Development law. Legislative systems and models for statutory planning in Australia and elsewhere; legislative systems and models for health and building control in Australia and elsewhere; health and building control issues for planning.

17520 PLANNING 2
2.5 semester hours

The analysis of the planning issues relating to the chosen site, through a study of the opportunities and constraints, an analysis of the political context, an analysis of costs, the development of strategies and the generation of options; the development of skills in relevant aspects of planning practice.

17521 URBAN ECONOMICS AND FINANCE 2
1 semester hour

The analysis of location as a factor in urban development; methods and purposes of carrying out feasibility studies, valuation, costings and estimating rates of return.

17522 ENVIRONMENT AND INFRASTRUCTURE 2
1 semester hour

Management of land and services: the principles of soil and nature conservation and catchment management; the cultural significance of natural and historic environments, and heritage conservation; the design, construction and operation of water supply, sewerage, drainage, gas, electricity and telecommunications systems.

17523 URBAN DESIGN AND MANAGEMENT 2
1 semester hour

An introduction to the history of ideas of the city and of city form; aspects of the history of building and urban development; past and present attitudes and approaches to the management of the urban design process; principles, criteria and values used in urban design.

17524 SOCIAL AND POLITICAL ASPECTS 1
1 semester hour

(a) Social investigation. Constructing theories and test ing hypotheses; statistics, social survey research methods, and the collection and interpretation of demographic data.
(b) Decision making structures. The concepts of social structure, values, beliefs, attitudes and social jus tice; an examination of democratic institutions, inter est groups and public participation in planning.

17530 PLANNING 3
2.5 semester hours

The assessment of planning options for the chosen site, through an evaluation of alternatives, an analysis of feasibilities, an assessment of impacts, and an analysis of benefits and costs; the development of skills in relevant aspects of planning practice.

17531 URBAN ECONOMICS AND FINANCE 3
1 semester hour

Concepts of multipliers, accelerators and the nature of a local economy; techniques of cost benefit analysis.

17532 ENVIRONMENT AND INFRASTRUCTURE 3
1 semester hour

Managing movement: Current and projected practice in transportation engineering, traffic management, public transport provision and the design, construction and maintenance of roads; paratransit; pedestrian requirements and opportunities.

17533 URBAN DESIGN AND MANAGEMENT 3
1 semester hour

(a) The development process: the principles of the management of development and construction processes; the roles of the various players in urban development.

(b) Planning administration: the management of public sector planning agencies and the roles of planning staff; professional practice management.

17534 SOCIAL AND POLITICAL ASPECTS 2
1 semester hour

(a) Perception of the built environment. Environment psychology and the problems of settlements, with particular reference to the physical and spatial aspects of the neighbourhood community, security and safety.
(b Political issues. As a demonstration of the techniques of political analysis, and to examine issues in depth, an investigation of one or more of the following topics: urban consolidation; regional structure and centres policies; current developments such as office parks; access - physical and social, micro and macro.

17540 PLANNING 4
2.5 semester hours

The preparation of final plans for the chosen site: goals and objectives, policies, implementation mechanisms, visualisation; the presentation and promotion of the plan; the development of skills in relevant aspects of planning practice.

17541 URBAN ECONOMICS AND FINANCE 4
1 semester hour

Urban and regional economic issues: as a demonstration of economic method and so as to examine a topic in depth, one of the following topics will be studied: housing, recreation, tourism, transportation, public sector finances, the incidence of infrastructure costs.

17542 ENVIRONMENT AND INFRASTRUCTURE 4
1 semester hour

Current practice in the design and management of infrastructure: the values, concepts and methods used in engineering and related professions; the use of warrants and specifications, and approaches used in the design, construction, operation and maintenance of infrastructure and other elements in the built environment; the strengths and limitations of these practices.

17543 URBAN DESIGN AND MANAGEMENT 4
1 semester hour

The institutional context: case studies of the structure and operations of the Department of Planning, a major municipality, a major financial institution, and a major developer.

17544 LAW FOR PLANNERS 2
1 semester hour

(a) Property and administrative law. Aspects of property law (occupier's liability, tenancy, resumption and compensation) and historical aspects of nuisance; principles of administrative law, with particular reference to local government law.
(b) Legal innovations and controversies. An examination of current issues in the legal aspects of plan ning, including some or all of the following topics: developer contributions; designated development; integrated development control; recent and possible changes in the practices of the Land and Environment Court; changes in the treatment of legal standing in environmental litigation.

17750 PLANNING 5
3.5 semester hours

The integration of the work of the previous four semesters in relation to the chosen site; an examination of the costs and impacts of the planning and regulatory mechanisms; a review of the decision-making processes; the development of skills in relevant aspects of planning practice.

17751 SPECIFIC ISSUES IN PLANNING
1 semester hour

Planning in the contemporary world of electoral politics, bureaucracies, business, resident action and environmental campaigns: the detailed analysis of a small number of specific current issues.

17755 GRADUATE PROJECT
7 semester hours

The graduate project consists of a major planning project based on a real site. The project will be carried out by a project team. Each team member is responsible for a component which is assessed both on the quality of the work and on its integration with the work of the other members of the team.

GRADUATE DIPLOMA IN URBAN ESTATE MANAGEMENT

This course is offered on a part-time basis only.

The purpose of Urban Estate Management is to preserve or enhance the value of resource of the urban estate, for the benefit of the community.

Aims

The objectives of the course are:

(i) to provide knowledge of social, economic, managerial, legal and physical systems which collectively contribute to the success or failure of the development and management of the Urban Estate.

(ii) to initiate proposals for the development of property and, as part of the process, to:
- satisfy economic, financial, legal and planning constraints;
- establish an appropriate management structure (including joint ventures) to allow the development to be completed as efficiently as possible;
- monitor the development process ensuring that consultants, and contractors satisfy the needs of the client organisation;
- estimate the social costs and benefits of development and community acceptance of this.

(iii) to manage a group of properties or a property portfolio in order to:
- provide and maintain an adequate return to the owner/investor.
- satisfy the needs of the tenants.
- protect and maintain the urban environment.

(iv) to develop and advise on appropriate investment strategies in isolation or as part of an overall investment portfolio.

(v) to participate as a member of an organisations management team or as the leader of such a team, and develop corporate policy.

(vi) to develop an appreciation of a professional ethic which emphasises responsibility and responsiveness to community needs.

(vii) to operate as a specialist or a generalist with regard to the above.

(viii) to operate at middle to senior level in an organisation.

Semester 1*		**Hours/Week**
12511	Building Technology (UEM)	2
12515	Property Economics 1 (UEM)	2
12518	Legal Procedures 1 (UEM)	2
12524	Property Development Management 1	2

Semester 2		
12527	Property Finance (UEM)	1.5
12516	Urban Sociology (UEM)	2
12528	Legal Procedures 2 (UEM)	1.5
12525	Property Economics 2 (UEM)	2
12549	Organisational Policy and Management	1

Semester 3		
12517	Property Management	1.5
12526	Urban Planning 1	2
12543	Property Development Management 2	2
12535	Property Economics 3	2
12538	Legal Procedures 3	1.5

Semester 4		
12536	Urban Planning 2	1.5
12542	Marketing UEM)	1.5
12545	Property Economics 4	2
12550	Project **	4

* Students may be exempt from two of the four Semester One subjects depending on experience and qualifications.

** UEM Project may be substituted for any two of the above Semester Three and Four subjects.

SYNOPSES

12511 BUILDING TECHNOLOGY (UEM)

2 semester hours

This subject highlights some of the technological principles of the construction and operation of major buildings in order to introduce entrants, who have not come from an architectural, building, engineering or quantity surveying background, to these areas. The main systems are isolated and various forms for each discussed in the context of the development process and maintenance. Examples of typical building types are discussed.

12515 PROPERTY ECONOMICS 1 (UEM)

2 semester hours

An introduction to aspects of macro and micro economics relevant to property development and property management.

12516 URBAN SOCIOLOGY 1 (UEM)

2 semester hours

Social theory: analysis of theories; individual theories examined; contributions of theories to understanding society. Social values in Australia: effects of values and socialisation on behaviour; norms. Poverty and social justice: history; interpretation of concept. Housing in Australia: desired attributes; government policies. Public participation in community development.

12517 PROPERTY MANAGEMENT
1.5 semester hours

Appraisal of rent collection procedures and policies. Administration of tenancies and leases. Compensation. Taxation. Risk management. Investment portfolio analysis and management. Social responsibilities. Maintenance and building management. Acquisition and disposal. Budgeting and accounting requirements.

12518 LEGAL PROCEDURES 1 (UEM)
2 semester hours

This subject is a short course in property law, both real and personal, and although it begins with contracts and ends with the contract for sale of land it contains an intensive coverage of many of the major principles relating to property law in NSW.

12524 PROPERTY DEVELOPMENT MANAGEMENT 1
2 semester hours

Organisations as systems, buildings procurement, client needs determination, management of the development process, development of organisations.

12525 PROPERTY ECONOMICS 2 (UEM)
2 semester hours

An analysis of the needs of property owners, investigation and selection of appropriate investment strategies in accordance with predetermined objectives, investment, market analysis and appraisal, and a detailed investigation of capitalisation rates and rates of return in property investment decisions.

12526 URBAN PLANNING 1
2 semester hours

Physical and historical aspects of urban and regional planning: land use planning; urban design; drainage road and service design as it affects town planning; transportation, reuse of existing building stock.

12527 PROPERTY FINANCE (UEM)
1.5 semester hours

Rent collection, administration, compensation, taxation, risk management, portfolio management, social responsibilities, building management, acquisition and disposal, and accounting principles.

12528 LEGAL PROCEDURES 2 (UEM)
1.5 semester hours

Some time is devoted to landlord and tenant matters and also to common law relating to the ownership of real property in order to round out Legal Procedures 1. However, this subject deals mainly with legislative planning control and the operation of the Land and Environment Court.

12535 PROPERTY ECONOMICS 3
2 semester hours

The preparation of economic feasibility studies for individual projects including detailed analysis of income/expenditure and required rates of return, methods for determining the impact of critical variables.

12536 URBAN PLANNING 2
2 semester hours

Economics of development; environmental impact assessment; survey techniques and process; graphic and other communication techniques used in planning.

12538 LEGAL PROCEDURES 3
1.5 semester hours

Following from the overview of planning control from Legal Procedures 2, this subject confines itself in the main to local government matters involving subdivision, building control and changes in use.

12542 MARKETING (UEM)
1.5 semester hours

The student will be able to understand the role played by marketing generally and be able to apply it to all aspects of urban estate management.

12543 PROPERTY DEVELOPMENT MANAGEMENT 2
2 semester hours

Integration of the property development process from initiation of development proposal to completion of project in case studies and assignments. Aspects of professional practice: ethics, professional indemnity. industrial relations; the Australian system; unions, employer organisations.

12545 PROPERTY ECONOMICS 4
2 semester hours

Corporate strategy, investment market and portfolio analysis, property investment as a component, investment portfolio management, financing and risk management.

12549 ORGANISATIONAL POLICY AND MANAGEMENT
1 semester hour

The objective of this subject is to provide the student with an informed perspective of the corporate function; the formulation of objectives, policy and strategy; how corporate plans and strategic plans are prepared as an outgrowth of objectives and policy; the various styles of management with emphasis on the suitability of each; team building; the recruitment of executive and senior management personnel; the purpose, formation, and management of joint ventures.

12550 PROJECT
4 semester hours

Topics selected by students dealing with Urban Estate Management.
The Urban Estate Management Project may be substituted for any 2 of the semester 3 and 4 subjects.

RULES GOVERNING PROGRESSION

These rules shall be read in conjunction with the University's By-Laws and Rules:

1. The appropriate Examination Review Committee, in making its decisions, shall take into consideration the student's performance in all subjects and may concede a pass in an individual subject.
2. On the recommendation of the appropriate Examination Review Committee, Faculty Board may in exceptional circumstances exempt a student from provision of the rules relating to progression.
3. The year/stage in these rules is defined as the programme for a year shown in the current edition of the Calendar.
4. A student may not enrol in subjects spanning more than two consecutive years of the course.
5. A student may carry subjects totalling not more than 3 hours per week from the previous year while doing a full programme from the next year.
6. A full-time student who is required to repeat subjects totalling more than 3 hours per week may enrol in subjects from the next year which would bring the student's total programme to not more than 18 hours per week.
7. A part-time student who is required to repeat subjects totalling more than 3 hours per week, may enrol in subjects of the next year which would bring the student's total programme to not more than 11 hours per week.
8. In exceptional circumstances, course programmes at variance with the above rules may be approved by the Head of School.

Rules for Award of Honours in Degree Courses, and Graded Awards in Graduate Diploma Courses

The award of Honours in the degree courses of the school and graded awards in the Graduate Diploma in Urban Estate Management, are recommended by the Faculty Board on the basis of the criteria listed below. The application of these rules is not totally automatic and Faculty Board modifies them in cases where it is felt that they do not give a true representation of an individual student's calibre, particularly in those cases which are very close to the dividing line between categories (on either side).

Bachelor of Applied Science (Building, Quantity Surveying and Land Economics Courses)

On the basis of WAM averaged over the last whole six years of the part-time course, but with a double loading on the subjects of the final three years of the part-time course and equivalent subjects in the full-time course.

75% and over	Degree with 1st Class Honours
65% to 75%	Degree with 2nd Class Honours
50% to 65%	Degree

Graduate Diploma in Urban Estate Management

On the basis of WAM averaged over the whole four semesters.

75% and over	Graduate Diploma (with distinction)
65% to 75%	Graduate Diploma (with credit)
50% to 65%	Graduate Diploma

PROFESSIONAL MEMBERSHIP

Students who intend to apply for membership of a professional body in due course are strongly advised to become student members of the body concerned whilst they are enrolled at the University.

Students should note that the Faculty's rules regarding approved Practical Experience as set out above apply to the award of its Degrees, and may not meet the practical experience requirements demanded by the professional bodies as a condition of membership, the details of which are printed below.

Students should bear in mind their future professional intentions when satisfying the practical experience requirements for their degree.
The requirements of the various bodies for admission to fully qualified membership are as follows:

Australian Institute of Valuers and Land Administrators (Inc)

Student membership is actively sought by the Institute and students are encouraged to join the various study groups, details of which are available from the Registrar. On completion of the course, graduates may be admitted as full members with the post-nominals 'GAIV' or 'GAILA'.

The requirements for Associate Membership include:

(a) a degree in a recognised course of study, i.e. Bachelor of Applied Science (Land Economics) at the University of Technology, Sydney;
(b) a minimum of two years valuation experience prior to application.Under the provisions of the Valuers Registration Act, valuers are required to be registered. Full details can be obtained from the Valuers Registration Board.

Real Estate Institute of NSW (REI)

The REI is the main professional body for real estate agency practice. Student membership is available and encouraged.

Amongst other things, membership entitles the student to receive the REI journal and participate in any of their Chapters, such as Property Management, Commercial and Industrial, and Valuation.

Australian Institute of Quantity Surveyors

Persons eligible for membership of the Australian Institute of Quantity Surveyors must satisfy the requirements set out in 'Conditions of Membership of the Australian Institute of Quantity Surveyors', published by the AIQS.

Australian Institute of Building

Qualifications for election to the grade of member for a person who is not in membership.

A person considered for election under this section shall:

(a) have been awarded a degree or diploma fully recognised by the Council for Corporate Membership Examinations of the Institute, or have passed equivalent examinations approved by Council.
(b) (i) at the time of his/her application for election be following the profession of building; or
(ii) have followed the profession of building and, although at the time of his/her application for election s/he is not following the profession of building, it is in the interest of the Institute that s/he should be elected;
(c) be not less than twenty-eight years of age, or in the case of a graduate or a diplomate in building of a university or other academic institution recognised by Council, be not less than twenty-five years of age;
(d) have been engaged for a total of at least three years in professional level activities in building. *
(e) have achieved, in the opinion of the Council, an appropriate level of building knowledge and be prepared to discuss his/her knowledge and experi ence at an interview; ** and
(f) be of good standing and be so regarded by the members of the Institute.

Note:

* Professional level activities in building

The Council considers that professional level activities in building involve responsible, independent, consistent exercise of discretion and judgement in such fields as the management of the building process (including the management of design, construction and maintenance of buildings), the development of government and corporate policies in building, the administration of building legislation, the development of building systems and products, building research, building consultancy and the education of building professionals and building technicians.

** Interview

The interview is not an examination, but is a means of confirming and supplementing the information contained on the Proposition for election to membership form, and of providing the Admission to Membership Committee with adequate, reliable and detailed information on the applicant's experience and professional standing.

Qualifications for election to the grade of graduate of a person who is not in membership.

A person considered for election under this section shall:

(a) have been awarded a degree or diploma fully recognised by the Council for corporate membership; and
(b) be of good standing and be so regarded by members of the Institute.

EXAMINATIONS AND ASSESSMENT

Final grading for progression is determined by combining the total marks for class work and for final examinations, if any. Class assignments and quizzes are therefore of great importance.

Final examinations are held at the end of the year, but some examinations may also be held at the end of the Autumn Semester.

Arrangements for informal examinations, conducted in class, will be announced by the lecturer in each case. It is each student's responsibility to be present.

Conduct of the Examination Review Committee

The Faculty Board has determined that the following rules govern the operation of Examination Review Committees for each Course:

1. The Examination Review Committee is a sub-committee of Faculty Board with delegated power to make decisions on behalf of the Board.
2. The membership of the Examination Review Committee for each course shall be the full-time academic staff of the school offering the course; the Dean shall be a member ex-officio.
3. The Examination Review Committee may modify the assessment of any examiner, subject to rules 4 to 7 below.
4. A conceded pass in a subject may be awarded if the following are satisfied:
   (a) The subject mark is in the range 45% to 49%.
   (b) The student's Weighted Average Mark (WAM) for the stage or year is 55% or greater.
5. Rule 4 may be varied in exceptional circumstances.
6. Extenuating personal circumstances should not be taken into account in the examiners' assessments, but any such circumstances and recommendations may be brought to the attention of the Examination Committee.
7. (a) The Architecture Examination Committee delegates its powers to the Portfolio Review Committee in respect of subject Design, and shall make available to the Portfolio Review Committee any extenuating evidence which it has relating to a student's performance.
   The Portfolio Review Committee shall indicate to the Examination Committee, in the case of a student who is judged to have failed, whether:
   (i) failure is such that the student should not be permitted to progress.
   (ii) failure is such that the student should only be permitted to progress if results in the remainder of the course in that semester average 65% or more;
   (iii) failure is marginal, and Design shall not be specially treated in determining progression.
   (b) The decisions of the Portfolio Review Committee shall not be subject to review by the Examination Committee, except that the latter body shall be empowered to award a conceded pass in circumstances (ii) and (iii) above.
8. Results should not be withheld unless the issue is expected to be determined within a week (e.g. by the submission of further or revised work) of the commencement of the following semester. Otherwise a failure should be recorded.
9. The Dean or Head of School may amend the decisions of the Examination Review Committee in the case of obvious clerical or arithmetic errors.
10. Except as to (9), no alterations may be made to the subject assessments of the Examination Review Committee other than by the use of the official review procedure.
11. The Head of School may amend the progression of a student as determined by the Examination Committee in the light of subject reassessments.
12. All alterations made under (9) to be reported to the Faculty Board.

University Medal

A student who displays exceptional merit in any of the degree courses may be recommended for the award of the University Medal in addition to graduating with First Class Honours.

Checking of Enrolment Details

It is the student's responsibility to check that his/her enrolment is correctly shown on the listings which will be exhibited on the notice boards during the first few weeks of each semester, and to notify his/her Head of School of any errors.

Responsibility for Attendance

Assignment and Examination Work

It is the student's responsibility to attend lectures and carry out all assignment and examination work in every subject in which he/she is enrolled.

On rare occasions students repeating a subject may make special arrangements with the lecturer-in-charge regarding exemption from attendance at lectures for part of a course and/or credit for work previously completed.

Any such arrangement must be documented, and it is the student's responsibility to obtain, in writing, clear evidence of the details of the arrangement from the lecturer-in-charge.

Assignments

Assignments are to be handed in on or before the date and time specified in the programme. Late assignments will not be accepted unless accompanied by a medical certificate or the like. It is a student's responsibility to make sure that the receipt of his/her assignment is noted by the lecturer.

Lecturers may at their discretion accept late assignments (and exact appropriate penalties), only if students make arrangements in advance.

Submissions which cannot be handed directly to the lecturer concerned are to be left in the assignment box on Level 7 of Building 2 and are to be clearly marked for whom they are intended.

Withdrawal from Subjects

Under University rules a student is entitled to withdraw from any or all subjects in which he/she is enrolled without penalty (i.e. the subject concerned is deleted from his/her programme and abandon or fail is not recorded) at any time up to and including the eighth week of a semester.

Heads of Schools in the faculty normally grant approval for students to withdraw without penalty up to the end of Autumn Semester (and very occasionally beyond).

Students having problems with the course caused by personal or work-related pressures are advised that this option is available, and that the matter should, in the first instance, be discussed with the Head of School.

Queries and Counselling

Heads of School and subject co-ordinators are course counsellors; queries of a general nature should be addressed to them. However, matters concerning a single subject should be raised in the first instance with the lecturer in that subject.

Prizes and Awards

A number of prizes and awards are available to students in the Faculty (see relevant section in chapter titled Bequests, Prizes and Scholarships in the 1991 University Calendar).

SCHOOL OF DESIGN

SCHOOL AIMS

The School of Design aims to maintain the stimulating and supportive environment and the educational standards which will ensure that:

- its students are facilitated in the development of their intellectual, creative and critical abilities and its graduates can undertake successfully the professional practice of design.

The School aims to provide to its graduates the ability to solve design problems creatively and responsibly, based upon:

- understanding of the social, cultural, environmental and economic context within which designers operate
- understanding of the role and responsibilities of the professional designer
- knowledge of the nature and potential of technology
- knowledge of the means for identifying and assessing the wants and needs of those who will use their designs
- knowledge of the processes of management relevant to design practice
- command of the research, decision making and evaluation techniques upon which successful designing depends
- skills in communicating with others
- the motivation to continue to increase their knowledge and develop their abilities as designers.

COURSES

The School of Design provides four year courses of study leading to the degree of

Bachelor of Design in

- **Fashion and Textile Design**
- **Industrial Design**
- **Interior Design**
- **Visual Communication**

The School also provides the following postgraduate courses

- **Graduate Diploma in Design Studies**
- **Master of Design (by coursework)**
- **Master of Design (by thesis)**

In 1991 the School of Design is introducing a new curriculum based on a problem-solving approach to learning and on increased interdisciplinary activity between the major areas of design study.

The new first year curriculum will include a large component of common projects and activities. The new second and third year curricula, to be introduced in 1992 and 1993 respectively, will consist of more professionally focused coursework. The final year will be based largely upon personal research and professionally oriented project work, and the final semester of the course consists of a major project of the student's own choosing.

Approximately one quarter of a student's study load is made up of elective studies, which are of two kinds:

- Minor Studies subjects in professional areas including design computing, transportation design, design for sustainable futures, design for film and television, and environmental communication.
- General Studies in broad educational areas including cultural studies, environmental studies, film studies, and languages, can be taken within the School of Design or in other UTS Schools or other comparable institutions.

DEPARTMENTS AND UNITS

Fashion & Textile Design - responsible for undergraduate subjects concerned with the technology of fibres, textiles and garment construction and the design of textiles and fashion.

Industrial Design - responsible for undergraduate subjects concerned with the technology of manufacturing and the design of manufactured products.

Interior Design - responsible for undergraduate subjects concerned with the technology of building construction, finishes, furniture and furnishings, and the design of building interiors.

Visual Communication - responsible for undergraduate subjects concerned with the technology of the visual media and the design of messages for transmission via those media.

Design Computing Unit - responsible for undergraduate and postgraduate subjects and activities in computer assisted drawing, sketching, drafting, concept modelling and computer-aided video image generation.

Unit for Integrated Design Studies - responsible for undergraduate and postgraduate subjects, research and consultancy in the fields of design management, human factors, marketing, environmental studies and social/psychological studies.

Unit for Postgraduate Studies - responsible for coursework, project and thesis supervision. Studies are aimed at improving the design performance of industries.

UNDERGRADUATE COURSES

FASHION & TEXTILE DESIGN

Fashion and textile design is concerned with the design of fabrics and apparel to fulfil the needs and reflect the changing values and customs of our society. Fashion and textile designers work with manufacturers and marketers of fashion goods, and combine an awareness of current lifestyles and values with detailed understanding of the materials, skills and processes of the fashion and textile industries.

First Year Studies

The first year curriculum is aimed at giving students an appreciation of the discipline of design and the social, historical, environmental and economic context in which designers work.

In addition to common projects undertaken with students from other major areas of design study, first year Fashion and Textile Design students take classes in fashion design and technology, textile design and technology, objective drawing, costume and life drawing, design history, language expression and computing.

Later Year Studies

Major studies for fashion and textile design cover the technologies of the fashion and textile industries, construction of garments, design of garments and accessories and design of printed, knitted and woven fabrics. As students progress through the course they can begin to specialise in particular aspects of fashion and textile design, so that by the fourth year their core studies can be largely concentrated in either fashion or textiles.

Fashion design subjects cover many facets of garment design, including clothing for men, women and children, and day and evening wear. Student designs are assembled by technical staff so that students understand the translation of design ideas into production. Fashion accessories, fashion illustration and fashion photography are integral parts of the course.

Textile design subjects cover fibre characteristics, dyeing, fabric construction and the various printing and embellishing techniques. Students gain experience of the design and construction of woven and knitted fabrics and knitted garments. Printing techniques studied include silk screen, batik and tie dyeing and students print cloth to their own designs for incorporation into garments.

COURSE PROGRAMME

First and Second Stages - Autumn and Spring Semesters

The subject First Year Design continues through Autumn and Spring Semesters and involves:

- common design projects undertaken with students from other major areas of design study;
- incorporation into projects of contextual studies focusing on social, environmental, technological, historical and economic aspects of design activity;
- classes and workshops in fashion design and technology, textile design and technology, objective drawing, costume and life drawing, language expression, and computing.

	Semester Hours
First Stage - Autumn Semester	
82350 First Year Design	24
Second Stage - Spring Semester	
82350 First Year Design	24
Third Stage - Autumn Semester	
83315 Fashion Design & Technology 3	6
83316 Textile Design & Technology 3	6
83317 Fashion & Textile Special Projects 1	6
Fourth Stage - Spring Semester	
83418 Fashion Design & Technology 4	6
83419 Textile Design & Technology 4	6
83420 Fashion & Textile Special Projects 2	6
Fifth Stage - Autumn Semester	
83515 F&T Industrial Project 1	6
83516 Fashion Design & Technology 5	6
83517 Textile Design & Technology 5	6
Sixth Stage - Spring Semester	
83615 F&T Industrial Project 2	6
83616 Fashion Design & Technology 6	6
83617 Textile Design & Technology 6	6
Seventh Stage - Autumn Semester	
81705 Professional Practice	2
83702 Fashion & Textile Technology	4
83706 Specialisation F & T	12
Eighth Stage - Spring Semester	
83810 Major Project - Fashion & Textile	24

SYNOPSES

81705 PROFESSIONAL PRACTICE
1 Credit Point

Aim: To give a working knowledge of the professional and legal aspects of design practice. A series of lectures deal with the legal system; professional liability; finance; accounting; patents; registered designs; copyright; agency; management principles; contracts; job interviews; taxation; insurance; and real estate.

83315 FASHION DESIGN & TECHNOLOGY 3
3 Credit Points
Prerequisite: 83216 Fashion Design & Technology 2

Aim: To develop students' ability to design garments for manufacture. A series of seminar/tutorials, demonstrations and tasks concerned with fabric selection, preparation of roughs and finished drawings, toilles, developing patterns, and construction of sample garments.

83316 TEXTILE DESIGN & TECHNOLOGY 3
3 Credit Points
Prerequisite: 83217 Textile Design & Technology 2

Aim: To develop students' ability to create and realise new and appropriate designs for manufactured textiles. A series of seminar/tutorials, demonstrations and tasks concerned with design of weave, knit and print. Tasks are set to extend students' awareness of pattern design possibilities for a variety of base fabrics and applications and to develop their command of appropriate design methods.

83317 FASHION & TEXTILE SPECIAL PROJECTS 1
3 Credit Points
Prerequisite: 83216 Fashion Design & Technology 2, 83217 Textile Design & Technology 2

Aim: To develop students' ability to prepare and present well developed design proposals in response to a brief, and to expose students to a variety of areas of design practice in the fashion and textile fields. A series of projects are undertaken involving students in group or individual research and the preparation of design proposals.

83418 FASHION DESIGN & TECHNOLOGY 4
3 Credit Points
Prerequisite: 83315 Fashion Design & Technology 3

Aim: To further develop students' ability to create and realise new and appropriate designs for fashion items. A series of seminars, demonstrations and tasks concerned with selection of appropriate fabrics, the preparation of design from roughs through finished drawings and/or toilles to finished and accessorised sample garments. Tasks are set to extend students' awareness of particular fashion fields and to develop their command of principles of pattern cutting and construction methods.

83419 TEXTILE DESIGN & TECHNOLOGY 4
3 Credit Points
Prerequisite: 83316 Textile Design & Technology 3

Aim: To further develop students' ability to create and realise new and appropriate designs for manufactured textiles. A series of seminar/tutorials, demonstrations and tasks concerned with design for weave, knit and print. For printed fabrics the preparation of textile designs from sketches through finished drawings to screens and printing is covered. Tasks are set to extend students' awareness of pattern design possibilities for a variety of base fabrics and applications and to develop their command of appropriate design methods.

83420 FASHION & TEXTILE SPECIAL PROJECTS 2
3 Credit Points
Prerequisite: 83317 Fashion & Textile Special Projects 1

Aim: To develop students' ability to prepare and present well developed and innovative design proposals in response to a brief, and to expose students to a variety of areas of design practice in the fashion and textile fields. A series of projects involve students in group or individual research and the prerequisition of design proposals sometimes for submission to organisations external to the School. Opportunities may be presented, for example, for costume designs, the design of fabrics or accessories and the integration of diverse skills in the design of experimental garments and textiles.

83515 FASHION & TEXTILE INDUSTRIAL PROJECTS 1
3 Credit Points
Prerequisite: 83420 Fashion & Textiles Special Projects 2

Aim: To develop students' ability to prepare and present innovative and thoroughly resolved design proposals in response to a brief, and to expose students to a variety of real industrial situations. A series of projects are set in which students are briefed by industrial clients and are required for instance to research market, cost and technological factors; prepare designs for garments or range of garments or textiles or accessories etc. and present proposals to their client.

83516 FASHION DESIGN & TECHNOLOGY 5
3 Credit Points
Prerequisite: 83418 Fashion Design & Technology 4

Aim: To further develop students' abilities in fashion design, their command of design methods and presentation techniques and of pattern cutting and garment construction. A series of seminar/tutorials, demonstrations and tasks concerned with testing and expanding garment design knowledge and abilities.

83517 TEXTILE DESIGN & TECHNOLOGY 5
3 Credit Points
Prerequisite: 83418 Fashion Design & Technology 4

Aim: To further develop students' abilities in the design of textiles, particularly knitted and printed textiles. A series of seminar/tutorials and tasks concerned with design and production of knitted textiles and garments and printed fabric lengths for specific applications. Students are encouraged to be innovative and to extend their creative and technical abilities.

83615 FASHION & TEXTILES INDUSTRIAL PROJECTS 2
3 Credit Points
Prerequisite: 83515 Fashion & Textiles Industrial Projects 1

Aim: To further develop students' ability to prepare and present innovative and thoroughly resolved design proposals in response to a brief, and to expose students to a variety of real industrial situations. Projects are undertaken in which students are briefed by industrial clients and required to research market, cost and technological factors; prepare designs for garments or ranges of garments or textiles or accessories etc. and present proposals to their client. Emphasis is placed upon students developing a responsible professional approach and methods and identifying their preferred career directions.

83616 FASHION DESIGN & TECHNOLOGY 6
3 Credit Points
Prerequisite: 83516 Fashion Design & Technology 5

Aim: To further develop students' abilities in fashion design, their command of design methods and presentation techniques and their knowledge of pattern cutting and garment construction. A series of seminar/tutorials, demonstrations and tasks are set concerned with the utilising of a variety of base fabrics, exploring specific market areas (for example menswear, evening wear) and technologies (for example tailoring). Students are encouraged to be innovative and extend their creative and technical abilities, and are required to prepare cut fabric and provide assembly instructions for sample garment production by technical staff. Each student is encouraged to identify the areas of fashion design practice appropriate to their enthusiasms and abilities.

83617 TEXTILE DESIGN & TECHNOLOGY 6
3 Credit Points
Prerequisite: 83517 Textile Design & Technology 5

Aim: To further develop students' abilities in the design of textiles, particularly knitted and/or printed textiles. A series of seminar/tutorials and tasks are undertaken concerned with design and production of knitted textiles and garments and printed fabric lengths for specific applications. Students are encouraged to be innovative and to extend their creative and technical abilities and to identify their preferred career directions.

83702 FASHION & TEXTILE TECHNOLOGY
2 Credit Points
Prerequisite: 83617 Textile Design & Technology 6, 83616 Fashion Design & Technology 6

Aim: To extend students' knowledge and skills in the technical aspects of textile production and/or garment manufacturing such as is needed for design practice, by special lectures, industrial visits and individual research. This is a composite subject containing two strands, one is concerned with textile production and the other with garment construction. The student may elect to work on tasks in both of these areas or to specialise in one area only, but must attend all visits and lectures.

83706 SPECIALISATION - FASHION & TEXTILE
6 Credit Points
Prerequisite: 83615 Fashion & Textiles Industrial Projects 2

Aim: To help students develop their professional design and technical abilities within the areas of fashion or textile design and to allow students the opportunity to demonstrate ability in specialised areas; eg children's wear, active sportswear, printed textile design, etc. The student is required to research, design and develop two ranges of commercial merchandise appropriate to their agreed areas of specialisation. All aspects of the design and manufacture of this range is to be covered with the complete documentation, working drawings, patterns, manufacturing methods, etc, submitted and displayed at the mid and end of the semester for review by an assessment panel of staff.

83810 MAJOR PROJECT - FASHION & TEXTILES
12 Credit Points
Prerequisite: 83706 Specialisation - Fashion & Textile; 83702 Fashion and Textile Technology

Aim: To require students to demonstrate their professional ability to prepare professional quality designs in their chosen area of fashion and/or textiles etc. The student is required to develop and present a complete range or agreed project, supported by documentation of market research, manufacturing and costing details and market strategies. The project assessment is based on the supervisors' evaluation of the student's work methods and a panel review of the final presentation. The panel assessment involves external (industry) panelists and takes into account the degree to which the student achieves the stated aims of the project and the degree of professionalism evident in the work.

INDUSTRIAL DESIGN

Industrial design is concerned with the design of products for manufacturing industry. The industrial designer works with manufacturers, and has responsibility not only for the visual and tactile qualities of products but also to a large extent for their safety, efficiency and cost effectiveness.

The industrial design course is planned to produce graduates who are capable of providing industry with leadership in design, and who will adapt successfully to industrial change.

First Year Studies

The first year curriculum is aimed at giving students an appreciation of the discipline of design and the social, historical, environmental and economic context in which designers work.

In addition to common projects undertaken with students from other major areas of design study, first year Industrial Design students take classes in industrial design, manufacturing technology, technology workshop, engineering drawing, human factors, objective drawing, language expression, and computing.

Later Year Studies

Major studies subjects form three complementary groups - manufacturing science and technologies; expressive and communication techniques; and design. The manufacturing science and technologies strand includes the study of engineering principles and of manufacturing materials and methods. The expressive and communication techniques strand covers analytical, presentation and engineering drawing, modelmaking, and written communication. The design strand includes both the design of products for mass production and marketing and design for appropriate technologies.

In the fourth year, the students undertake a research project and develop in depth a design based on their research findings.

COURSE PROGRAMME

First and Second Stages - Autumn and Spring Semesters
The subject First Year Design continues through Autumn and Spring Semesters and involves:

- common design projects undertaken with students from other major areas of design study;
- incorporation into projects of contextual studies focusing on social, environmental, technological, historical and economic aspects of design activity;
- classes and workshops in industrial design, manufacturing technology, technology workshop, engineering drawing, human factors, objective drawing, language expression, and computing.

		Semester Hours
Third Stage - Autumn Semester		
82308	Research Methods Ergonomics	4
82310	Workplace Environments	2
84306	Manufacturing Technology 2	2
84307	Engineering Science 1	2
84308	Industrial Design 3	6
84309	Engineering Drawing 3	2
Fourth Stage - Spring Semester		
82407	Human Factors - Anatomy & Physiology	4
84405	Manufacturing Technology 3	2
84406	Engineering Science 2	2
84407	Industrial Design 4	6
84408	Engineering Drawing 4	2
84412	Industrial Design Workshop 1	2

Fifth Stage - Autumn Semester

81508	Applied Marketing	4
84504	Manufacturing Technology 4	2
84505	Engineering Science 3	2
84506	Industrial Design 5	6
84510	Industrial Design Graphics	2
84511	Industrial Design Workshop 2	2

Sixth Stage - Spring Semester

81607	Management - Industrial Design	4
84604	Manufacturing Technology 5	2
84605	Engineering Science 4	2
84606	Industrial Design 6	6
84608	Industrial Design Workshop 3	4

Seventh Stage - Autumn Semester

81705	Professional Practice	2
84704	Research Project - Industrial	4
84705	Manufacturing Economics	2
84707	Industrial Design 7	8
84708	Presentation Workshop	2

Eighth Stage - Spring Semester

84804	Major Project - Industrial Design	24

SYNOPSES

81508 APPLIED MARKETING
2 Credit Points

Aim: To give an understanding of modern marketing theory and practice. This subject consists of a series of lectures and discussions on the following topics - marketing concepts; marketing environment; segmentation; industrial and consumer marketing; planning; products and services; life cycles; packaging; promotion and distribution.

81607 MANAGEMENT - INDUSTRIAL DESIGN
2 Credit Points

Aim: To provide the industrial design student with knowledge of the theory and practice of management specifically applied to the role of an industrial designer in industry. A series of lectures, seminars and tutorials concerned with such topics as management by objectives, meetings, management styles, role of the consultant, supervision of employees and creative people, job satisfaction, negotiation and time management.

81705 PROFESSIONAL PRACTICE
1 Credit Point

Aim: To give a working knowledge of the professional and legal aspects of design practice. A series of lectures deal with the legal system; professional liability; finance; accounting; patents; registered designs; copyright; agency; management principles; contracts; job interviews; taxation; insurance; real estate.

82308 RESEARCH METHODS - ERGONOMICS
2 Credit Points
Prerequisite: 82101 Human Factors

Aim: To give an understanding of and practice in the application to design tasks of ergonomic data and requirements. This subject consists of a series of lectures, seminars and research tasks concerned with the ergonomic aspects of specific design problems.

82310 WORKPLACE ENVIRONMENTS
1 Credit Point
Prerequisite: 82101 Human Factors

Aim: To examine the relationship between physical parameters of the working environment and human performance with particular emphasis upon stress and safety. The course consists of lectures and tutorials on the topics of thermal comfort, lighting and sound controls. Students are introduced to the basic concepts of measurement and control as well as human sensitivity and behaviour.

82407 HUMAN FACTORS - ANATOMY & PHYSIOLOGY
2 Credit Points
Prerequisite: 82308 Research Methods - Ergonomics

Aim: To give an understanding of the anatomical structure, physiological systems and related pathological processes of the human body pertinent to design. The subject consists of a series of lectures, seminars and tutorials.

84306 MANUFACTURING TECHNOLOGY 2
1 Credit Point
Prerequisite: 84208 Manufacturing Technology 1

Aim: To give students an understanding of the materials and processes of manufacturing. A series of lectures and discussions concerned with a wide range of manufacturing processes and industries, particularly those involved in mass production; field trips and visiting speakers as appropriate.

84307 ENGINEERING SCIENCE 1
1 Credit Point

Aim: To give students an understanding of those aspects of the physical sciences fundamental to the materials and processes of manufacturing. This subject consists of

a series of seminars and tutorials concerned with how properties and characteristics of materials are defined and how these affect the way in which materials are processed and used.

84308 INDUSTRIAL DESIGN 3
3 Credit Points
Prerequisite: 84205 Industrial Design 2

Aim: To give students a working understanding of industrial design as a professional activity and the skills and knowledge necessary to synthesise the functional, technical, economic and human factors and aesthetic considerations in the design of manufactured articles. This subject consists of a series of lectures, seminars, field visits, investigations and projects in relation to the following - the industrial designer's role in society; the product/consumer interface; simple design projects, individual and group. Projects are devised to illustrate the process of design rather than to result in specific solutions and cover a variety of manufacturing processes from small volume, low technology, to mass production and advanced technology.

84309 ENGINEERING DRAWING 3
1 Credit Point
Prerequisite: 84206 Engineering Drawing 2

Aim: To develop students' ability to use drawing both as an aid to design, in the generation and refinement of forms, and as a means of communicating information about those forms. The subject continues the engineering drawing programme with projects in dimensioning tolerance and descriptive geometry; projects to result in production drawings and the development of objective drawing skills.

84405 MANUFACTURING TECHNOLOGY 3
1 Credit Point
Prerequisite: 84306 Manufacturing Technology 2

Aim: To develop students' understanding of the materials, tools, skills and processes of manufacturing. Lectures and discussions concerned with a range of manufacturing processes including the areas of numerical control, assembly, finishing and product graphics. Field trips and visiting speakers are appropriate.

84406 ENGINEERING SCIENCE 2
1 Credit Point
Prerequisite: 84307 Engineering Science 1

Aim: To develop students' understanding of those aspects of the physical sciences relevant to the processes of product design and manufacturing. A series of seminars and tutorials including the principles of statics.

84407 INDUSTRIAL DESIGN 4
3 Credit Points
Prerequisite: 84308 Industrial Design 3

Aim: To develop students' understanding of industrial design as a professional activity. A series of lectures, seminars, field visits, investigations and projects and exercises in relation to the industrial designer's role in society; the product/consumer interface; simple design projects, individual and group. Projects are devised to develop the process of design rather than to result in specific solutions and cover a range of production techniques.

84408 ENGINEERING DRAWING 4
1 Credit Point
Prerequisite: 84309 Engineering Drawing 3

Aim: To give students competence in those drawing skills which are necessary to the successful and responsible communication of design ideas. Projects in dimensioning, tolerance and descriptive geometry; projects to result in production drawings; the development of objective drawing skills.

84412 INDUSTRIAL DESIGN WORKSHOP 1
1 Credit Point

Aim: To explore a wide range of design documentation and presentation techniques. Photography, drawing and graphic layout strategies are employed and use made of the computer, photocopiers, copy camera and other relevant equipment in a series of projects. The subject complements *84407 Industrial Design* by evidencing the range of methods which can be employed to explore, document and present design ideas.

84504 MANUFACTURING TECHNOLOGY 3
1 Credit Point
Prerequisite: 84405 Manufacturing Technology 2
Co-requisite: 84506 Industrial Design 5

Aim: To develop students' understanding of processes of manufacturing and knowledge of mass production methods. A series of seminars, field trips and investigations which are concerned with specific manufacturing processes and industries.

84505 ENGINEERING SCIENCE 3
1 Credit Point
Prerequisite: 84406 Engineering Science 2

Aim: To give students further understanding of those aspects of the physical sciences fundamental to the materials and processes of manufactured products. A series of seminars and tutorials concerned with electrical circuitry and hydraulics. Calculations are made of the performance of various hypothetical systems including alternative energy sources.

84506 INDUSTRIAL DESIGN 5
3 Credit Points
Prerequisite: 84407 Industrial Design 4

Aim: To give students expertise in the decision-making processes characteristic of the design of manufactured goods and awareness of the factors which influence the acceptability of products on the market. A series of lectures, seminars, investigations and design projects concerned with materials selection; functional requirements; economic considerations; choice of means of production and market considerations.

84510 INDUSTRIAL DESIGN GRAPHICS
1 Credit Point

Aim: To give students familiarity with the uses of type, letterforms and symbols incorporated into products and their packaging. A series of seminars and tasks concerned with symbols, typography and letterforms and their application to product and brand names, information displays and packaging.

84511 INDUSTRIAL DESIGN WORKSHOP 2
1 Credit Point

Aim: To develop students' capacity to apply relevant knowledge and appropriate methodologies to the creative solution of a wide range of product design problems. A series of design projects in which students are encouraged to draw on inputs from other subjects (e.g. human factors, engineering science) and to utilise an exploratory experimental approach. The subject complements *84506 Industrial Design 5* by expanding the range of design tasks and design methods with which students gain experience.

84604 MANUFACTURING TECHNOLOGY 5
1 Credit Point
Prerequisite: 84504 Manufacturing Technology 4

Aim: To give students a working understanding of the materials and processes of manufacturing and detailed knowledge of mass production methods. This subject consists of a series of seminars, field trips and case studies concerned with specific manufacturing processes and industries.

84605 ENGINEERING SCIENCE 4
1 Credit Point
Prerequisite: 84505 Engineering Science 3

Aim: To give students further understanding of those aspects of the physical sciences fundamental to manufactured products. A series of seminars, tutorial and project work concerned with analysis of complete or complex systems.

84606 INDUSTRIAL DESIGN 6
3 Credit Points
Prerequisite: 84506 Industrial Design 5

Aim: To develop students expertise in the decision-making processes characteristic of the design of manufactured goods and awareness of the factors which influence the acceptability of products on the market. A series of lectures, seminars and design projects concerned with materials selection; functional requirements; economic considerations; choice of means of production and marketing considerations.

84608 INDUSTRIAL DESIGN WORKSHOP 3
2 Credit Points
Prerequisite: 84511 Industrial Design Workshop 2

Aim: To improve students' capacity to apply relevant knowledge and appropriate methodologies to the creative solution of a wide range of problems. Design projects in which students are encouraged to draw on inputs from other subjects (eg anatomy, human factors, engineering science) and to utilise an exploratory experimental approach. The subject will complement *84606 Industrial Design 6* by expanding the range of design tasks and design methods with which students gain experience.

84704 RESEARCH PROJECT - INDUSTRIAL
2 Credit Points

Aim: To give students the ability to investigate in depth and report on an aspect of industrial design of particular personal interest, as preparation for a major design project in the following semester. The programme will depend upon the selected topic and it is anticipated that most students will be working through a three step programme -
(1) collection of information
(2) analysing and evaluating information and
(3) writing and assembling a report.

84705 MANUFACTURING ECONOMICS
1 Credit Point
Prerequisite: 84604 Manufacturing Technology 5

Aim: To give students a working understanding of corporate finance and how it relates to the economics of manufacturing. A series of seminars and investigations concerned with cost estimation, value analysis and quality control.

84707 INDUSTRIAL DESIGN 7
4 Credit Points
Prerequisite: 84606 Industrial Design 6

Aim: To develop students' design decision-making ability so that they are able to contribute effectively to the research, development and marketing processes leading to the successful production of capital and consumer goods. Design projects are undertaken, often for manufacturing clients, concerned with further developing knowledge and abilities in the areas of materials selection, functional requirements, economic considerations and choice of means of production.

84708 PRESENTATION WORKSHOP
1 Credit Point

Aim: To develop students' abilities in the documentation of design projects and the presentation of their own capabilities. Tasks include the preparation of a curriculum vitae, professional portfolio and promotional material and may include the review and representation of previously completed drawings, models, photographs and reports.

84804 MAJOR PROJECT - INDUSTRIAL
12 Credit Points
Prerequisite: 84704 Research Project - Industrial; 84705 Manufacturing Economics; 84707 Industrial Design 7

Aim: To require students to apply their knowledge gained through research to a major project of their own choice and in so doing evidence their ability to work at graduate, professional level. The students prepare their own programmes for the semester as part of their project work. Each student is supervised by a member of staff. The project assessment is based on the supervisor's assessment of the student's work methods and a panel assessment of the final presentation. The panel assessment takes into account the degree to which the student achieves the stated aims of the project and the degree of professionalism evident in the work.

INTERIOR DESIGN

Interior design is concerned with the design of interior environments to form appropriate settings for human activities. The interior designer works with manufacturers, suppliers and contractors, sometimes in association with architects and other designers, to shape, furnish and equip building interiors.

A designer specialising in interiors is expected to have a thorough understanding of human environmental needs, expert knowledge of the products and processes available for shaping, furnishing and equipping building space, and the capacity to develop appropriate design solutions and organise their realisation.

First Year Studies

The first year curriculum is aimed at giving students an appreciation of the discipline of design and the social, historical, environmental and economic context in which designers work.

In addition to common projects undertaken with students from other major areas of design study, first year Interior Design students take classes in the design of interiors, the technologies of building construction and services, architectural and presentation drawing and modelmaking, language expression, human factors, design history, and computing.

Later Year Studies

Major studies cover the technologies of building construction and building services and the manufacture of building materials and components, furniture and furnishings, the essential communication skills of architectural and presentation drawing and modelmaking and the design of interiors including the design of furnishings and furniture. Students are made familiar with the roles of practitioners in related design fields. Professional practice, including building regulations, management and the administration of contracts is also covered.

Students learn and apply problem-solving techniques appropriate to a wide range of interior design activities. An important aim is to assist students to recognise the areas of interior design practice to which their enthusiasm and abilities best suit them. Design tasks become increasingly complex as the student progresses, so that by the fourth year the undergraduate is working at near-professional levels in research and problem-solving.

COURSE PROGRAMME

First and Second Stages - Autumn and Spring Semesters
The subject First Year Design continues through Autumn and Spring Semesters and involves:

- common design projects undertaken with students from other major areas of design study;
- incorporation into projects of contextual studies focusing on social, environmental, technological, historical and economic aspects of design activity;
- classes and workshops in the design of interiors, the technologies of building construction and services, architectural and presentation drawing and model-making, human factors, language expression, and computing.

		Semester Hours
Third Stage - Autumn Semester		
86304	Design History - Interiors 2	2
86313	Interior Design Theory 1	2
86314	Interior Design Projects 1	6
86315	Technology - Interiors 3	4
86317	Communication Techniques - Interiors 3	4
Fourth Stage - Spring Semester		
82409	Environmental Systems - Interiors 1	4
86404	Design History - Interiors 3	2
86414	Interior Design Theory 2	2
86415	Interior Design Projects 2	6
86417	Communication Techniques - Interiors 4	4
Fifth Stage - Autumn Semester		
86521	Interior Design Theory 3	2
86522	Interior Design Projects 3	6
86526	Technology - Interiors 4	6
86527	Interior Conservation	2
86528	Interior Furnishings & Fittings 1	2
Sixth Stage - Spring Semester		
82606	Environmental Systems - Interiors 2	4
86623	Interior Design Theory 4	2
86624	Interior Design Projects 4	6
86626	Technology - Interiors 5	2
86627	Design History Interiors 4	2
86628	Interior Furnishings & Fittings 2	2
Seventh Stage - Autumn Semester		
81705	Professional Practice	2
86717	Interior Design Theory 5	2
86718	Interior Design Projects 5	8
86719	Technology - Interiors 6	4
86720	Interior Research and Practice	2
Eighth Stage - Spring Semester		
86810	Major Project - Interior Design	24

SYNOPSES

81705 PROFESSIONAL PRACTICE
1 Credit Point

Aim: To give a working knowledge of the professional and legal aspects of design practice. A series of lectures deals with the legal system; professional liability; finance; accounting; patents; registered designs; copyright; agency; management principles; contracts; job interviews; taxation; insurance; real estate.

82409 ENVIRONMENTAL SYSTEMS - INTERIORS 1
2 Credit Points

Aim: To provide understanding of the physical and human aspects associated with the control of the visual and thermal environments in building. Lectures, tutorials and building visits are undertaken to cover contextual as well as specific facets of sun control, natural lighting, artificial lighting and ventilation.

82606 ENVIRONMENTAL SYSTEMS - INTERIORS 2
2 Credit Points
Prerequisite: 82409 Environmental Systems - Interiors 1

Aim: To provide understanding of the physical and human aspects associated with the control of the aural and air conditioned environments in buildings. Lectures, tutorials and building visits are undertaken to cover contextual as well as specific facets of room acoustics, noise control, air conditioning systems and their influence upon building utilisation.

86304 DESIGN HISTORY - INTERIORS 2
1 Credit Point

Aim: To give a general introduction to interior design history, specifically of the period of the 19th Century, including Australia. Topics include architecture, planning, interior design, furniture and decoration.

86313 INTERIOR DESIGN THEORY 1
1 Credit Point

Aim: To introduce students to the body of theory basic to interior design practice. A general introduction, by lectures, research and discussion, into the roles and responsibilities of interior designers and the application of knowledge from relevant disciplines to design practice.

86314 INTERIOR DESIGN PROJECTS 1
3 Credit Points
Prerequisite: 86203 Interior Design 2

Aim: To develop students' ability to provide fully considered solutions to interior design problems. Design projects are predominantly of residential scale and nature, for a variety of client types. Projects will contain assessable components of research, design, technology and presentation.

86315 TECHNOLOGY INTERIORS 3
2 Credit Points
Prerequisite: 86206 Technology Interiors 2
Corequisite: 86314 Interior Design Projects 1

Aim: To develop students' command of the technologies of construction, materials and finishes used in residential, food service and public space projects. Lectures, seminars and tasks give the technological grounding for Interior Design - Projects.

86317 COMMUNICATION TECHNIQUES - INTERIORS 3
2 Credit Points
Prerequisite: 86209 Communication Techniques - Interior 2
Corequisite: 86314 Interior Design Projects 1

Aim: To develop basic interior design presentation techniques including drawing, modelmaking, monochrome and colour rendering. Lectures and workshops give students an introduction to visual communication skills and applications. Generally, students are required to apply the skills and knowledge acquired to their concurrent work in *86314 Interior Design - Projects.*

86404 DESIGN HISTORY - INTERIORS 3
1 Credit Point
Prerequisite: 86304 Design History - Interiors 2

Aim: To develop understanding of the history of interior design, specifically the 20th century, including Australia. Topics include architecture, planning, interior design, furniture and decoration.

86414 INTERIOR DESIGN THEORY 2
1 Credit Point
Prerequisite: 86313 Interior Design Theory 1

Aim: To provide a command of theories basic to the practice of interior design. Lectures, seminars, workshops and case studies develop knowledge applicable to interior design projects .

86415 INTERIOR DESIGN PROJECTS 2
3 Credit Points
Prerequisite: 86314 Interior Design Projects 1

Aim: To develop students' ability to provide fully considered interior design solutions. Projects require students to resolve problems including dining rooms, food preparation spaces, entry foyers and places of public entertainment. Projects will contain assessable components of research, design technology, environmental systems and presentation.

86417 COMMUNICATION TECHNIQUES - INTERIORS 4
2 Credit Points
Prerequisite: 86317 Communications Techniques - Interiors 3
Corequisite: 86415 Interior Design Projects 2

Aim: To further develop students' ability to present their design proposals using skills in drawing and reprographics. Lectures and workshops will explore a wide range of interior design communication techniques.

86521 INTERIOR DESIGN THEORY 3
1 Credit Point
Prerequisite: 86414 Interior Design Theory 2

Aim: To extend students' knowledge of the theories applicable to the practice of interior design, particularly in the areas of conservation, restoration and adaptive reuse of historic or otherwise significant interiors. Lectures, seminars, workshops and case studies develop methodologies applicable to interior design projects for conservation, restoration and recycling of existing building interiors.

86522 INTERIOR DESIGN PROJECTS 3
3 Credit Points
Prerequisite: 86415 Interior Design Projects 2

Aim: To develop students' problem-solving abilities through projects requiring ability to provide fully considered interior design solutions within buildings of historic or other significance. Design projects require

students to resolve briefs for problems including conservation, restoration and recycling and will contain assessable components of historic research, development and presentation.

86526 TECHNOLOGY - INTERIORS 4
3 Credit Points
Prerequisite: 86315 Technology - Interiors 3
Corequisite: 86522 Interior Design Projects 3

Aim: To develop students' knowledge of the technologies required by the practising interior designer working on conservation, restoration and recycling projects. A series of lectures supplemented by supervised student study groups which undertake a detailed case study.

86527 INTERIOR CONSERVATION
1 Credit Point

Aim: To provide students with an understanding of the place of interior conservation and restoration in interior design practice. Lectures and seminars deal with the methodologies of research and the technologies needed to maintain the interior of buildings of significance and students will document a conservation case study.

86528 INTERIOR FURNISHINGS AND FITTINGS 1
1 Credit Point

Aim: To provide students' with knowledge of the technologies of loose and built-in furniture, joinery, cabinetry and fittings. Lectures and seminars give students an introduction to the design, fabrication and the selection of a wide range of furniture and fittings.

86623 INTERIOR DESIGN THEORY 4
1 Credit Point
Prerequisite: 86521 Interior Design Theory 3

Aim: To extend students' knowledge of interior design theories. Lectures, research, discussion and case studies develop methodologies in solving design problems for commercial interiors, and develop in the student a philosophy of design.

86624 INTERIOR DESIGN PROJECTS 4
3 Credit Points
Prerequisite: 86522 Interior Design Projects 3

Aim: To provide students with problem-solving tasks that will develop their ability to develop fully considered interior designs. Design projects require students to resolve briefs for problems including office tenancy, retail tenancy, shopping centre public spaces and individual retail shops. Projects contain assessable components of brief development, research, design, technology, environmental systems and presentation.

86626 TECHNOLOGY - INTERIORS 5
1 Credit Point
Prerequisite: 86526 Technology - Interiors 4
Corequisite: 86624 Interior Design Projects 4

Aim: To develop students' knowledge of the technologies of construction, materials, finishes, and the techniques and methodologies used in commercial office and retail interiors. The subject gives the technological grounding for Interior Design - Projects and involves lectures, research and studio projects.

86627 DESIGN HISTORY - INTERIORS 4
1 Credit Point
Prerequisite: 86404 Design History - Interiors 3

Aim: To develop students' understanding of the history of decorative arts. Lectures and studies will cover international and Australian examples.

86628 INTERIOR FURNISHINGS AND FITTINGS 2
1 Credit Point
Prerequisite: 86528 Interior Furnishings and Fittings 1

Aim: To extend students' knowledge of the manufacturing technology of loose and built-in furniture and fittings. Lectures and seminars give students an introduction to the assembly, components, construction and the building-in of furniture and fittings used in interior design.

86717 INTERIOR DESIGN THEORY 5
1 Credit Point
Prerequisite: 86623 Interior Design Theory 4

Aim: To encourage students to discuss and develop their interior design methodologies and philosophies. Lectures, seminars and discussions will develop and test students' knowledge, values and approaches to interior design theories.

86718 INTERIOR DESIGN PROJECTS 5
4 Credit Points
Prerequisite: 86624 Interior Design Projects 4

Aim: To require students to undertake projects that allow them to apply knowledge and abilities gained in major, minor and general studies subjects. Students

complete approved design projects of the type and complexity that will prepare them for *86810 Interior Design - Major Project.*

86719 TECHNOLOGY - INTERIORS 6
2 Credit Points
Prerequisite: 86626 Technology - Interiors 5
Corequisite: 86718 Interior Design Projects 5

Aim: To require students to develop a high level of technological knowledge for application to interior design projects. A series of lectures and group research projects require students to question existing interior design technologies. Specialised interior design technologies will be studied in detail by research.

86720 INTERIOR RESEARCH AND PRACTICE
1 Credit Point

Aim: To require students to develop research methods suitable for interior design practice. Lectures, workshops, seminars and study groups involving literature, searches, questionnaires, analysis of results and reports on issues affecting practising professional interior designers.

86810 MAJOR PROJECT - INTERIOR DESIGN
12 Credit Points
Prerequisite: 86718 Interior Design Projects 5; 86719 Technology - Interiors 6; 86720 Interior Research and Practice

Aim: To require students to design a major interior work, to a brief they have developed, to demonstrate their knowledge and abilities and establish their preparedness for professional practice. The project involves a complex of spaces providing a specialist environment and requires a significant modification of the interior of an existing building. Students are required to work with a suitable client for the project and to negotiate with at least one external consultant. Students prepare their own semester programmes and are supervised by a staff member. The project assessment is based on the supervisor's assessment of the student's work methods and a panel assessment takes into account the degree to which the stated aims of the project have been achieved and the professionalism evident in the work.

VISUAL COMMUNICATION

Visual communication is concerned with design of the presentation of information in visual form. The designer whose field is visual communication can work with the film, television, advertising, printing, publishing and signage industries, and often works in conjunction with industrial designers and environmental designers such as architects, interior and exhibition designers. The visual communication designer has responsibility for determining the ways in which instructions, directions, information and argument are communicated visually to people.

Central to the course is the application of design techniques to the development of visual material utilising illustration, photography, signs, symbols and typography. Applications of visual material which are studied include publications, advertising, packaging, film, television and environmental graphics.

First Year Studies

The first year curriculum is aimed at giving students an appreciation of the discipline of design and the social, historical, environmental and economic context in which designers work.

In addition to common projects undertaken with students from other major areas of design study, first year Visual Communication students take classes in visual communication design, technology studies, photography, objective drawing, language expression, film and video, print, design history, and computing.

Later Year Studies

Major studies cover communication utilising words and images, symbols and signs, and the various graphic processes. Photography, drawing, print, the media, behavioural sciences, design methods and marketing are studied.

As students progress they increase their specialisation in particular aspects of visual communication, such as packaging, signs, advertising, illustration, photography, film and television graphics, publications design and environmental graphics.

In the fourth year the student undertakes major design projects at an advanced level. The student is expected to explore in depth, and resolve with professional competence, complex visual communication design problems.

COURSE PROGRAMME

First and Second Stages - Autumn and Spring Semesters

The subject First Year Design continues through Autumn and Spring Semesters and involves:

- common design projects undertaken with students from other major areas of design study;
- incorporation into projects of contextual studies focusing on social, environmental, technological, historical and economic aspects of design activity;
- classes and workshops in visual communication design, technology studies, print, objective drawing, photography, film and video, image making, language expression, and computing.

		Semester Hours
Third Stage - Autumn Semester		
87321	Language Studies 1	2
87322	Image Studies	2
87323	Sign/Symbol Studies 1	2
87324	Social Context	2
87325	Visual Communication Projects 1	6
87326	Film & Video Workshop 1*	2
87327	Photography Workshop 1*	2
87328	Print Workshop 1*	2
87329	Communication Theory	2

*Two of three to be taken

Fourth Stage - Spring Semester		
81407	Media Studies	2
87421	Language Studies 2	2
87423	Sing/Symbol Studies 2	2
87424	Visual Communication Projects 2	4
87425	Print Workshop 2*	2
87427	Photography Workshop 2*	2
87428	Film & Video Workshop 2*	2
87430	Image Workshop*	2
87431	Design Forum	2

*Three of four to be taken

Fifth Stage - Autumn Semester		
81606	Design History - Visual Communication	2
87510	Photography VC3*	4
87516	Image Making 3*	4
87521	Graphic Design 1*	4
87522	Film & Video 1*	4
87523	Visual Communication Design 3	8
87525	Cultural Studies	2

*Two of four to be taken

Sixth Stage - Spring Semester		
87610	Photography VC4*	4
87624	Film & Video 2*	4
87625	Image Making 4*	4
87626	Graphic Design 2*	4
87627	Visual Communication Design 4	8
87630	Research Project 1	2

*Two of four to be taken

Seventh Stage - Autumn Semester		
81705	Professional Practice	2
87707	Photography VC5*	4
87716	Film & Video 3*	4
87717	Image Making 5*	4
87718	Print 2*	4
87719	Visual Communication Design 5	4
87730	Research Project 2	4

*Two of four to be taken

Eighth Stage - Spring Semester		
87815	Major Project - Visual Communication	24

SYNOPSES

81407 MEDIA STUDIES

1 Credit Point

Aim: To give a detailed understanding of the properties and potentials of print, audio and visual media, and their appropriate use. This subject consists of a series of lectures and discussions providing an examination of different media with students being encouraged to specialise in their own areas of interest with their research and tutorial presentations.

81606 DESIGN HISTORY - VISUAL COMMUNICATION

1 Credit Point

Aim: To give an understanding of the development of visual communication in Australia during the 19th and 20th centuries and in particular the work of various designers, studios and agencies in the context of the influences acting upon them. This subject consists of a series of lectures on the following - early Australian illustration, illustrated magazines and journals; early art studios; more specialised design; recent advertising art studios; photography and communication; exhibition design; outdoor advertising in Australia; contemporary Australian designers; vernacular design in Australia.

81705 PROFESSIONAL PRACTICE
1 Credit Point

Aim: To give a working knowledge of the professional and legal aspects of design practice. A series of lectures deal with the legal system; professional liability; finance; accounting; patents; registered designs; copyright; agency; management principles; contracts; job interviews; taxation; insurance; real estate.

87321 LANGUAGE STUDIES 1
1 Credit Point

Aim: To give students an understanding of visual language of which the two major components are written expression (composition) and typography. A series of discussions and tasks covering the range of language applications in visual communication including typography in text, headlines and captions.

87322 IMAGE STUDIES
1 Credit Point

Aim: To give students knowledge of the use of signs and symbols for visual communication. A series of lectures and discussions on the theory of signs and symbols and the use of semiotic analysis, plus experience in the use of logos, symbols, corporate identity programmes for visual communication purposes.

87323 SIGN/SYMBOL STUDIES 1
1 Credit Point

Aim: To give students' knowledge of the use of signs and symbols for visual communication. A series of lectures and discussions on the theory of signs and symbols and the use of semiotic analysis, plus experience in the use of logos, symbols, corporate identity programmes for visual communication purposes.

87324 SOCIAL CONTEXT
1 Credit Point

Aim: To provide students with an understanding of the social context within which the communication process operates and the way in which communication is mediated by social factors. A series of lectures, discussions and audiovisual presentations supported by detailed reading material.

87325 VISUAL COMMUNICATION PROJECTS 1
2 credit Points
Prerequisite: 87210 Visual Communication Design 2

Aim: To give students experience and skills in the solution of visual communication problems. A series of projects in visual communication in a variety of media. Students concentrate on different media in successive projects, or combine different media in a single project. They are encouraged to display imagination, creativity and critical ability as well as to gain experience in the techniques of visual communication. The studio design activity is supported by a number of continuing media workshops.

87326 FILM & VIDEO WORKSHOP 1
1 Credit Point
Corequisite: 87325 Visual Communication Project 1

Aim: To improve student's abilities in communication projects, this workshop provides technical backup in the appropriate medium to the visual communication projects.

87327 PHOTOGRAPHY WORKSHOP 1
1 Credit Point
Corequisite: 87325 Visual Communication Project 1

Aim: To improve students' abilities in the use of photography in visual communication. The workshop provides technical backup in the medium to the visual communication projects. The workshop is intended to feed into visual communication projects and also provide skills and techniques within the chosen medium.

87328 PRINT WORKSHOP 1
1 Credit Point
Corequisite: 87325 Visual Communication Project 1

Aim: To give students further understanding of the print medium and related processes in support of concurrent projects. The subject includes: (a) experimental exercises processed through the print workshop to enable students to understand the potential and constraints of graphic reproduction, and (b) applied projects to offer experience in research, concept development, visual presentation, production procedures and skills and print management.

87329 COMMUNICATION THEORY
1 Credit Point

Aim: To provide students with knowledge of a variety of media and theories of communication and to develop an analytical stance and historical overview of the structure of the communications industry. Lectures address models, theories, history and analysis. In seminars students discuss topics centred upon the issues raised in lectures and responses to the set books and articles.

87421 LANGUAGE STUDIES 2
1 Credit Point
Aim: To give students a command of visual language, specifically written expression (composition) and typography. A series of discussions and tasks covering the range of language available to visual communicators including typography, text, captions and associated media. Students are required to discuss and develop the application of language to the solution of visual communication problems.

87423 SIGN/SYMBOL STUDIES 2
1 Credit Point

Aim: To give students further knowledge of the use of signs and symbols for visual communication. A series of lectures and discussions on the theory of signs and symbols and the use of semiotic analysis, plus experience in the design of logos, symbols, and corporate identity programmes for visual communication purposes.

87424 VISUAL COMMUNICATION PROJECTS 2
2 Credit Points
Prerequisite: 87325 Visual Communication Projects 1

Aim: To give students further experience and skills in the solution of visual communication problems. A series of projects in a variety of media. Students are encouraged to display imagination and creativity in developing effective solutions to visual communication problems. The subject is supported by media workshops.

87425 PRINT WORKSHOP 2
1 Credit Point
Corequisite: 87424 Visual Communication Projects 2

Aim: To give students knowledge of the possibilities and limitations of the print medium and experience and skills in the solution of visual communication problems involving use of that medium. Students explore a range of print processes and develop project designs through to realisation using the print workshop facilities.

87427 PHOTOGRAPHY WORKSHOP 2
1 Credit Point
Corequisite: 87424 Visual Communication Projects 2

Aim: To give students knowledge of the possibilities and limitations of photography in visual communication and experience and skills in the solution of visual communication problems using photography. Students explore a range of photographic techniques and develop project designs, utilising their photographic ideas and skills and the photography workshop facilities.

87428 FILM & VIDEO WORKSHOP 2
1 Credit Point
Corequisite: 87424 Visual Communication Projects 2

Aim: To give students knowledge of the possibilities and limitations of the film and video media and experience and skills in the solution of visual communication problems involving use of those media. Students explore film and video preproduction, production and postproduction processes and develop project designs through to realisation using the film and video workshop facilities.

87430 IMAGE WORKSHOP
1 Credit Point
Corequisite: 87424 Visual Communication Projects 2

Aim: To give students knowledge of the possibilities and limitations of non-photographic images in visual communication. Students explore the manipulation of visual images for communication purposes related to concurrent projects.

87431 DESIGN FORUM
1 Credit Point

Aim: To bring outstanding professional designers and communicators from Australia and overseas to talk to students about their work, background and design philosophies and thus involve students in contemporary professional practice.

87510 PHOTOGRAPHY VC 3
2 Credit Points
Prerequisite: 87206 Photography VC 2

Aim: To provide students with knowledge of studio methods, the use of the view camera and artificial lighting, and the development of relevant photographic techniques and an introduction to colour photography methods. Through the use of project work students are introduced to studio methods enabling them to develop and refine photographic techniques.

87516 IMAGE MAKING 3
2 Credit Points
Prerequisite: 87215 Image Making 2

Aim: To require the student to develop a fluent and inventive approach in generating graphic images. A series of projects aimed at identifying and developing

graphic methods suited to achieving a particular communication intent.

87521 GRAPHIC DESIGN 1
2 Credit Points
Prerequisite: 87425 Print Workshop 2

Aim: To improve students' abilities in design for print reproduction. Students who seek to specialise in graphic design and advance their skills in graphic media can choose between various assignments, such as record covers, posters, information graphics, etc.

87522 FILM AND VIDEO 1
2 Credit Points
Prerequisite: 87428 Film/Video Workshop 2

Aim: To provide students with an understanding of the steps involved in the conception, planning and production of television commercials; and an introduction to professional animation techniques and videographics. A series of screenings, lectures and discussions providing an overview of the commercial television industry, techniques and processes of commercial production and presentation, and basic animation and videographic techniques. Students are required to complete a production project and participate in a group production of a promotional nature.

87523 VISUAL COMMUNICATION DESIGN 3
4 Credit Points
Prerequisite: 87424 Visual Communication Projects 2

Aim: To provide students with skills in the design of a variety of visual material to meet communication needs. A series of tasks involves a wide range of media with a particular emphasis on type.

87525 CULTURAL STUDIES
1 Credit Point

Aim: To give students an understanding of contemporary issues in the developing field of cultural studies. Particular attention is paid to the mass media, image analysis and contemporary theories of cultural politics.

87610 PHOTOGRAPHY VC 4
2 Credit Points.
Prerequisite: 87510 Photography VC 3

Aim: To provide students with skills in the use of photography. Investigation is made of advanced practice in colour photography and the development of design concepts through techniques of colour and black and white photography. Project work is designed to develop the students' conceptual and technical skills related to the use of photography as a design/image-making medium.

87624 FILM & VIDEO 2
2 Credit Points
Prerequisite: 87522 Film & Video 1

Aim: To provide further understanding of the use of film and video as communication media and to develop students' conceptual and production skills. A series of screenings, lectures and discussions and projects covering a broad range of communication applications in film and video, including informational, promotional and expressive uses.

87625 IMAGE MAKING 4
2 Credit Points
Prerequisite: 87516 Image Making 3

Aim: To further develop a fluent and inventive approach in generating graphic images. Projects aimed at identifying and developing graphic methods suited to a particular communication.

87626 GRAPHIC DESIGN 2
2 Credit Points
Prerequisite: 87521 Graphic Design 1

Aim: To introduce students to senior levels of graphic design by the assignment of projects to be completed at a professional level. Projects require use of advanced print technology.

87627 VISUAL COMMUNICATION DESIGN 4
4 Credit Points
Prerequisite: 87523 Visual Communication Design 3

Aim: To provide students with an understanding of the visual communication needs of varied client and target groups. Community projects in which students select community organisations for which they carry out communication design projects in appropriate media.

87630 RESEARCH PROJECT 1
2 Credit Points

Aim: To stimulate students to explore a single design topic with a degree of academic depth appropriate to a four year university degree course.

87707 PHOTOGRAPHY VC 5
2 Credit Points
Prerequisite: 87610 Photography VC 4

Aim: To give students the ability to translate design concepts through the application of advanced professional photographic methods. Photographic interpretation is undertaken for specific design projects in consultation with the lecturer and fellow students.

87716 FILM & VIDEO 3
2 Credit Points
Prerequisite: 87624 Film & Video 2

Aim: To develop students' abilities in the design of their own film and video projects. Emphasis is given in projects to animation and other specialist techniques.

87717 IMAGE MAKING 5
2 Credit Points
Prerequisite: 87625 Image Making 4

Aim: To require students to develop a fluent and inventive approach to generating graphic images. A series of projects aimed at identifying and developing graphic methods suited to a particular communication intent.

87718 PRINT 2
2 Credit Points
Prerequisite: 87626 Graphic Design 2

Aim: To consolidate students' knowledge and understanding of print processes, production management and the role and responsibilities of graphic designers. Projects enable students to develop knowledge in budget control, client contact, artwork production techniques and print processes.

87719 VISUAL COMMUNICATION DESIGN 5
2 Credit Points
Prerequisite: 87627 Visual Communication Design 4

Aim: To provide students with an understanding of design problem-solving in a communication industry context. A series of projects with emphasis on developing a professional approach to realising solutions to real-world visual communication problems.

87730 RESEARCH PROJECT 2
2 Credit Points

Aim: See Research Project 1

87815 MAJOR PROJECT - VISUAL COMMUNICATION
12 Credit Points
Prerequisite: 87719 Visual Communication Design 5

Aim: To require students to apply their knowledge and abilities gained through previous studies and experience to a major project programme of their own choice and in doing so to demonstrate their ability to work at graduate, professional, level. Students plan their own semester activity based upon an approved project or projects, and work under a supervisor and with nominated consultants. The project assessment is based upon the supervisor's assessment of the student's work methods and a panel assessment of the final presentation. The panel assessment takes into account the degree to which the student achieves the stated aims of the project(s) and the professionalism evident in the work.

MINOR AND GENERAL STUDIES

GENERAL STUDIES

In order to graduate, students who have completed first year are required to complete five General Studies subjects.

General Studies subjects are offered in a range of areas including creative writing, social theory and Australian society, popular culture, Aboriginal studies, music video, and environmental studies. Students may apply to take appropriate General Studies subjects in other UTS Schools, or at other comparable institutions.

Details of General Studies subjects to be offered by the School of Design in 1991 will be provided at the time of enrolment. **When enrolling, students should check carefully the 1991 offerings and subject numbers as detailed on the separate overlays provided at that time.**

SYNOPSES

51337 CREATIVE WRITING 1
1 Credit Point

Aim: To provide basic skills in writing for publications, technical projects, film and television. A weekly series

of seminars/tutorials. Topics covered include writing for various publications including books, magazines and newspapers; report writing; product support writing and copywriting; script writing for film and television. Traditional and contemporary examples from various fields will be discussed.

51338 CREATIVE WRITING 2

See 51337

80003 MARKETING
1 Credit Point

Aim: To acquaint the design student with modern marketing theory. A series of lectures and seminars covering such topics as marketing and design; marketing concepts; marketing environment; segmentation; industrial and consumable marketing; planning; products and services; life cycles; packaging; promotion; distribution.

80004 MARKET RESEARCH
1 Credit Point

Aim: To give students a working knowledge of the practical application and use of survey data from independent research in solving design problems. A series of seminar/tutorials are undertaken dealing with - research design and proposal; questionnaire design; sampling; interviewing; scoring; data interpretation; industrial research; research and segmentation of markets.

80005 DESIGN HISTORY 1
1 Credit Point

Aim: To give students an understanding of the relationship of design and designers to their cultural milieu by looking at design problems, techniques and solutions from a range of cultures. Two topics, each of eight weeks duration are presented - Topic 1 - the development of architecture and other design elements in various cultures e.g. Indian, Tibetan, Japanese, Indonesian and Western and Topic 2 - the materials, symbols and design elements of traditional artifacts from Japan, China and Papua New Guinea.

80006 DESIGN HISTORY 2
1 Credit Point

Aim: To give students further understanding of the relationship of design and designer to their cultural milieu. Two topics, each of eight weeks duration, will be presented in lectures and seminars.

80009 DESIGN SYSTEMS
1 Credit Point

Aim: To examine some categories of design problems and solutions that transcend professional boundaries and use systems concepts as an aid to their understanding. A series of lectures and discussions on phenomena such as modularity, product evolution, designing for uncertainty and whether small really is beautiful.

80010 ENVIRONMENTAL SYSTEMS
1 Credit Point

Aim: To examine various aspects of artificial and natural environment systems in order to understand basic characteristics of control, system failures and the scope for human intervention in such systems. Lectures and discussions based upon large and small scale systems such as energy cycles, transportation and buildings.

80011 POPULAR CULTURE
1 Credit Point

Aim: To give students an overall perspective on the role of popular culture, especially the popular arts and design in contemporary society. A series of lectures, seminars and tutorials which provide an introduction to the theory of popular culture as the dominant social context of our time and explore the popular arts, mass media and design as cultural communication. Subjects include film, cartooning, pop music, jazz, video, craft, vernacular design, print media, TV and the built environment.

51209 SOCIAL THEORY AND AUSTRALIAN SOCIETY
1 Credit Point

Aim: To provide a framework in which to examine theories about the self and society and an understanding of the individual in relation to a social, cultural and political context. A series of lectures and tutorials on: Social Psychology - general introduction; social psychology of the individual; group influences upon individual behaviour; social interaction; group structure and membership; leadership. Sociology - general introduction to sociology in Australia; the Marxist tradition; social mobility and elites; the Weberian tradition; anthropology and its relation to sociology; case study; sociology and design.

51387 MEDIA STUDIES
1 Credit Point

Aim: To give students an understanding of the individual properties and potentials of print, audio and visual media and their appropriate use. A series of lectures and discussions on (1) basic communication theory, messages, communicators and audiences; and (2) properties and potentials of print, radio, TV etc, theories of McLuhan, Schwarz etc.

80018 CLIENT PRESENTATION
1 Credit Point

Aim: To provide students with practical skills in the planning and presentation of information and proposals to client groups using audio-visual equipment. A series of lectures and demonstrations dealing with co-ordination of equipment; group presentations; individual presentations; planning for major presentations; commercial applications.

80025 MUSIC VIDEO 1
1 Credit Point

Aim: To develop awareness of the history of the genre, to examine some of the influences on its development, and its influences on other forms of film and video production, and to evaluate its effectiveness as a medium of both artistic expression and commercial promotion. Topics covered include the study of the Hollywood musical, experimental film, television technology and the effect of music video on film, fashion, advertising and dance.

80026 MUSIC VIDEO 2
1 Credit Point

Aim: To promote advanced studies of the genre including examination of various forms, such as the concept type, the narrative type, the performance type, the experimental type and the self-reflexive type, as well as study of legal, budgetary and promotional aspects of music video production and distribution. Topics covered include the study of authorship, ownership, budgets, contracts, experimental film and video art, image marketing and promotion, and genre studies.

80040 ABORIGINAL STUDIES

Aim: The lectures introduce students to a critical understanding of aspects of Aboriginal culture and to facets of Aboriginal involvement in Australia's history and contemporary politics. The programme contains perspectives on Aboriginal art and culture, especially in relation to communication that will be relevant to Design students in their studies and careers. A willingness to accept challenges to widely held beliefs and attitudes is essential.

MINOR STUDIES

In order to graduate, students who have completed first year are required to complete a strand of Minor Studies over five semesters.

Minor Studies subjects are offered in a range of professional areas including computing and design, illustration, photography, textile design, environmental communication, film and video design, transportation design, and design and sustainable human factors.

Details of Minor Studies subjects to be offered in 1991 will be provided to students at the time of enrolment. **When enrolling, students should check carefully the 1991 offerings and subject numbers as detailed on the separate overlays provided at that time.**

SYNOPSES

88301 COMPUTERS AND DESIGN 1

Aim: To provide to students a working understanding of the potential of computers for design practice and to provide skills in relevant applications. This strand is concerned with micro computer based systems for word and image processing, drafting and animation and consists of a series of lectures, seminars and tasks concerned with computer graphics relevant to the various design majors. Visits are made to computer graphics systems in industry.

88302 ENVIRONMENTAL COMMUNICATIONS 1

Aim: To provide to students experience of the diversity of design problems relating to communicating with the public at the environmental scale and the many factors involved in their solution; the opportunities for and the nature of professional practice in this field.

The following topics are covered by industry and site visits, lectures, seminars and assignments - professional practice in the field and an introduction to the industry that supports it; the history of type and letterforms; the design and application of alphabets; generation of graphic symbols; factors affecting their visual perception when

used in signage systems; objective testing of visual communication. Projects include museum, exhibit, exhibition, display and signage design.

88304 ILLUSTRATION 1

Aim: To provide students with an understanding of the use of illustration as a communication tool together with an introduction to a wide range of illustration media techniques and experience of their use in a number of applications relevant to their various design majors. A series of seminar/tutorials, demonstrations and tasks are undertaken concerned with a range of techniques and applications, e.g. line and half tone work, rendering and airbrushing and reprographic technologies.

88305 PHOTOGRAPHY 1

Aim: To provide students with a command of photographic techniques and experience of their application in a range of specialist areas relevant to the various design majors. A series of seminars/tutorials and tasks are undertaken. Emphasis is placed on visualisation of concepts and the exploration of suitable means for realising those concepts. Specific aspects of photography (e.g. fashion, product) are addressed and students are given opportunities for appropriate specialisation.

88306 TEXTILE DESIGN 1

Aim: To give students an understanding of textile/fabric design and construction and end uses in industry and society. A series of lectures, seminars, site visits and tasks are undertaken concerned with:

(1) fabric appreciation and construction
(2) tensile performance measures including strengths of fabrics, toxicity and flammability values of textiles; and
(3) the theory and practice of printing textiles in repeat and translating design ideas through screen printing onto fabric lengths.

88308 FILM & VIDEO 1

Aim: To provide students with an understanding of the techniques and processes involved in the planning and detailed design of film and video productions, and experience of relevant aspects of design. The first (300) level semester provides an introduction to the basic language, technology and procedures of film and video production and to the roles of the various members of production and design teams. Subsequent semester units give students experience of script analysis, design research, preproduction planning, storyboard, set design and construction, modelmaking, costumes, special effects, titles, makeup design, lighting and camera work. Students have opportunities for appropriate specialisation. A series of lectures, screenings and discussions will deal with the history, theory and practice of the screen media. Guest designers present and discuss their work, and production exercises give students direct experience of design for film and video.

88309 TRANSPORTATION DESIGN 1

Aim: To provide an introduction to vehicle design and a general understanding of these complex products and why they are the way they are. A theoretical component will look at the dynamics of a moving wheeled product, including power transmission and steering geometry. A project team will design and construct a simple powered "device" for moving one person. Operator comfort and aesthetic qualities will be considered - field trip.

88310 DESIGN AND SUSTAINABLE HUMAN FUTURES 1

2 Credit Points

Aim: To introduce students to the concept of sustainable human futures. This unit examines the role of essential ecological processes in maintaining human life and the extent to which these processes are already stressed from, for example, economic growth, population and pollution. The role of attitudes, values and societal priorities as barriers to sustainable futures is next considered. Finally, contemporary initiatives towards providing sustainable benefits to humanity are examined. Project work explores possible relationships between design and sustainable human futures.

88325 PHOTOGRAPHY - SOCIAL DOCUMENTATION

2 Credit Points

Aim: To give students an appreciation of the fundamentals of photography in relation to the theme of social documentary. A series of theory and laboratory sessions dealing with the fundamentals of the camera, processing and printing in the context of the social documentary theme.

88401 COMPUTERS AND DESIGN 2

See 88301

88402 ENVIRONMENTAL COMMUNICATIONS 2

See 88302

88404 ILLUSTRATION 2

See 88304

88405 PHOTOGRAPHY 2

See 88305

88406 TEXTILE DESIGN 2

See 88306

88408 FILM AND VIDEO 2

See 88308

88409 TRANSPORTATION DESIGN 2

Aim: To further develop students' understanding of the complexity of designing moving wheeled products. The first of a two semester project to design a passenger car for a specific market segment, including theory of aerodynamics, anthropometrics, legal requirements etc. Interior design will be looked at, including seats, fascia, fabrics, colours, instrumentation, hardware etc. - field trip.

88410 DESIGN AND SUSTAINABLE HUMAN FUTURES 2

2 Credit Points

Prerequisite: 88310 Design and Sustainable Human Futures 1

Aim: To examine the role of systems thinking in designing sustainable human futures. A basic understanding of systems concepts is followed by an examination of key ecological processes and their relevance to human systems. The changing relationship through time between human and natural systems is next considered, demonstrating both the evolving nature of human systems and their growing impact on natural systems. Contemporary thought on the application of ecosystem principles, particularly to human settlements, is evaluated. Finally, future directions for the development of sustainable technological systems for both urban and rural societies are predicted. The relevance of the systems approach to designers is emphasised throughout the unit. Project work explores more fully relationships between design and systems thinking.

88425 PHOTOGRAPHY - SOCIAL DOCUMENTATION

2 Credit Points

See 88325

88501 COMPUTERS AND DESIGN 3

See 88301

88502 ENVIRONMENTAL COMMUNICATIONS 3

See 88302

88503 FILM AND VIDEO 3

See 88308

88504 ILLUSTRATION 3

See 88304

88505 PHOTOGRAPHY 3

See 88305

88506 TEXTILE DESIGN 3

See 88306

88508 PHOTOGRAPHY (HOLOGRAPHY) 3

Aim: To introduce students to the skills and techniques used in Holography. Lectures concentrate on a particular method and are complemented by practical sessions. Processes to be outlined will include: laser transmission and mass production methods, such as embossing and photopolymer.

88509 TRANSPORTATION DESIGN 3

See 88309/409

88601 COMPUTERS AND DESIGN 4

See 88301

88602 ENVIRONMENTAL COMMUNICATIONS 4

See 88302

88603 FILM AND VIDEO 4

See 88308

88604 ILLUSTRATION 4

See 88304

88605 PHOTOGRAPHY 4

See 88305

88606 TEXTILE DESIGN 4

See 88306

88608 PHOTOGRAPHY (HOLOGRAPHY) 4

Aim: To introduce students to the network of practitioners and facilities within Australia and internationally through field trips and assignments which involve collaboration. Students will be involved in individual and group oriented design tasks which will employ and extend techniques from earlier stages.

88609 TRANSPORTATION DESIGN 4

See 88309/409

88701 COMPUTERS AND DESIGN 5

See 88301

88702 ENVIRONMENTAL COMMUNICATIONS 5

See 88302

88703 FILM AND VIDEO 5

See 88308

88704 ILLUSTRATION 5

See 88304

88705 PHOTOGRAPHY 5

See 88305

88706 TEXTILE DESIGN 5

See 88306

88708 PHOTOGRAPHY (HOLOGRAPHY) 5

Aim: To further develop skills and techniques used in Holography. Students will develop techniques and specialise in specific project activities.

88709 TRANSPORTATION DESIGN 5

See 88309/409

COURSE RULES

These rules are to be read in conjunction with the University's By-Laws and Rules.

Undergraduate Award Students

B. Design in:
Fashion and Textile Design
Industrial Design
Interior Design
Visual Communication

1. Awards and Graduation
A student is deemed to have completed the educational requirements for the B.Design course when he/she has achieved 96 credit points made up of -

1.1 81 credit points from required major studies subjects including:
- 24 credit points for 1st Year Design
- 9 credit points at each of 300, 400, 500, 600 and 700 levels
- 12 credit points from major project at 800 level;

1.2 10 credit points from an approved strand of minor studies subjects including two credit points at each of 300, 400, 500, 600 and 700 levels;

1.3 5 credit points from general studies subjects.

2. Assessment Period
The assessment period for the School of Design is one semester.

3. Credit Point System
Each subject offered for credit toward the degree has a credit point value which reflects the effort normally required to complete the subject's study and other work and which provides the basis for the subject's weighting factor.

4. Minimum Credit Points
The minimum number of credit points for which a full time student can be enrolled in a semester is 9.

5. Maximum Credit Points
The maximum number of credit points for which a student can be enrolled in a semester is 15. This maximum may be varied with the approval of the School Board.

6. Progression
A student must obtain 9 credit points by completion of subjects at one level of study before being eligible to proceed to the next level of study. This requirement may be varied with the approval of the School Board.

7. Part Time Study
Students may be permitted by the School Board to continue their studies on a part time basis, i.e. enrol for fewer than 9 credit points per semester. The circumstances under which part time studies may be permitted are:

7.1 Where a student who has completed successfully two years of study wishes to combine third and/or fourth year studies with appropriate industrial employment.

7.2 Where a student through disability cannot carry a full time study load.

7.3 Where a student is denied access to subjects through failure in prerequisites and so is prevented from undertaking a full time study load.

Application for permission to undertake studies on a part time basis must be in the appropriate form and be endorsed by the applicant's academic adviser before being lodged with the Head of School.

8. Special Leave
8.1 Students who for good reasons such as illness, family or financial difficulties or misadventure cannot attend classes and undertake assignments for a period during a semester may apply for a special leave.

8.2 Applications for special leave must be in the appropriate form and be endorsed by the applicant's academic adviser before being lodged with the Head of School.

8.3 Special leave normally is limited to four weeks duration and students temporarily absent with or without special leave must make arrangements with the co-ordinating examiners responsible for the subjects in which they are enrolled to meet the requirements for assessment in those subjects.

9. Assessment Policy
Student work is assessed in accordance with the assessment policy adopted and issued by the School Board.

10. Ownership of Student Work (under review)
Students as part of their course requirements produce items of work which are the subject of assessment.

10.1 Where students are engaged as part of their course requirements in the creation of works for third party commissions the party commissioning that work may negotiate rights to reproduce, copy or implement a student's design or make and sell products to that design. Students should seek advice in order to protect their rights and interests in such cases.

10.2 During the calendar year in which an item or work is produced in satisfaction of course requirements the University may have reasonable access to that work including for the purposes of assessment, exhibition, reproduction or publication except that the University upon written request from the student who is author of the work will refrain from using that work in any way which could jeopardise the student's ability to protect any intangible rights which may attach to the work.

10.3 During the calendar year in which an item of work is produced in satisfaction of course requirements the student who is author of the work may exhibit, publish or reproduce the work provided all course requirements have been satisfied beforehand and provided no reference is made to the University or the student's association with the University without the prior written approval of the Registrar.

Assessment Policy

This policy statement has been adopted by the Design School Board. It outlines the ways in which the School goes about assessing (marking) student work submitted during semesters and compiling subject assessments for students at end-of-semester.

Successful implementation of this policy requires understanding, commitment and active participation in assessment processes by both students and staff of the School. It is important that staff and students are familiar with School policy and that they work to ensure that assessment processes are conducted as consistently and fairly as possible.

1. Enrolment in each subject is a form of agreement between the student and the University. The basis of that agreement is the printed subject description, made available to students before their enrolment, in which the subject's general aims and outline are spelled out. The University agrees to provide the subjects as described, and to award the credit points for the subject to those students who are properly enrolled in the subject and who are assessed and found to have been successful in achieving the subject's aims.

2. An application for a variation of approved programme must be completed and lodged by a student wishing to withdraw from a subject in which s/he is enrolled or to undertake a subject in which s/he is not enrolled. The application must be lodged with the Registrar before the end of the fourth week of a semester. Failure to vary enrolment will result in a student being awarded failures in subjects abandoned and not being credited with results obtained in subjects entered after enrolment day.

3. A semester programme for each subject is provided to students in the first class of the semester. This programme provides, in more detail than the subject description, an outline of the content, staffing, teaching/learning strategies, pattern of assignments, assignment weighting and basis of assessment planned for the semester.

4. The basis for assessment is spelled out in the semester programme for the subject. The School does not use semester examinations as part of its assessment process.

5. Attendance and participation in classes is prerequisite to a passing assessment in all subjects. Achievement of a subject's aims becomes difficult if many lectures, seminars, tutorials or studio/workshop sessions are missed. As a general rule attendance at 80% of scheduled classes is required. Attendance, however, is not in itself sufficient. Active involvement in class activities and discussions is important to learning and therefore to assessment.

6. Assignments are the tasks prescribed for students in a subject. An assignment may take the form of, say, a tutorial paper (i.e. group or individual investigation leading to a report presented in class and a documented submission), a semester paper (i.e. a group or individual investigation occupying most or all of the semester and leading to a documented submission) or a design project (i.e. the group or individual development and submission of design proposals in response to an issued brief).

7. The assignment conditions set by the subject lecturer define as necessary the submission format, the submission deadline and the assessment criteria.

8. The submission deadline is the date and time at which the assignment is due. Assignments are required to be delivered to the subject lecturer, or to the person nominated by the subject lecturer to accept submissions, before the deadline.

9. Late submissions will not be accepted. The only exceptions to this policy can occur where prior arrangements have been made with the subject lecturer. Students are strongly advised, in their own interest, to make an incomplete submission on time rather than to seek acceptance of a late submission.

10. Incomplete assignment submissions will be accepted before the deadline and will be assessed, and any students who believe themselves to have been prevented by disability or misadventure from completing an assignment may attach to their submitted work a written explanation of the circumstances preventing completion.

11. A criticism is provided to the author of each accepted assignment. This criticism usually is given by the subject lecturer in the form of a class discussion or critique, which may be supplemented by individual criticisms or reports.

12. An assessment of each accepted assignment submission is made by the subject lecturer in terms of criteria made explicit in the assignment brief or subsequently agreed. A student is entitled to receive from the lecturer details of the mark awarded and an indication of where the mark sits in the class rank order.

13. A resubmission may be allowed or encouraged by a subject lecturer to help a student to bring an assignment to a more satisfactory conclusion. The resubmission will not lead to a revised assessment for the assignment but will be considered in an end-of-semester review and can influence the subject assessment.

14. Warnings may be issued at mid semester by the subject lecturer to students who at that stage clearly are falling below a passing standard in work completed in the first half semester. It must be emphasised that the School cannot and does not undertake to advise students in advance of impending failures.

15. Advice on progress is available to students, from the subject lecturer, however it must be understood that the lecturer cannot necessarily predict the end-of-semester subject assessment in giving such advice, particularly in borderline cases, because staff members other than the lecturer are involved in determining the grades awarded in subject assessment results.

16. A co-ordinating examiner is appointed for each subject by the responsible department head. If the lecturer who teaches the subject is a full time staff member s/he is the co-ordinating examiner. If the subject is

taught by a team or by a part time lecturer, one member of the full time staff acts as the co-ordinating examiner. The co-ordinating examiner's task is to ensure that all eligible assignment submissions have been assessed, that assessment records are complete and available for reference and that a subject assessment in the form of a grade is proposed for every enrolled student.

17. Subject assessments are compiled by co-ordinating examiners, in consultation with staff teaching in the subject and with the head of the responsible department. In the compilation of subject assessments, assignment marks are weighted to reflect the duration, importance and effectiveness, as a measure of competencies, of the various assignments. Each grade proposed is based upon a percentage score.

18. Grades which can be proposed by co-ordinating examiners are as follows:

High Distinction
Given to a student whose work in the subject has consistently been of exceptional standard.

Distinction
Given to a student who, through work of outstanding merit, has demonstrated a capacity to achieve more than the subject's aims.

Credit
Given to a student who has more than met the minimum requirements of the subject and whose work has been of a standard well above average.

Pass
Given to a student who has met the requirements of the subject, has demonstrated that s/he has satisfactorily achieved the subject's aims through work of average standard.

N
This is a borderline case, to be resolved in discussions at the examination review committee when the student's performance in all subjects can be considered. The N can become a pass, conceded pass, or a failure on the recommendation of the co-ordinating examiner in the light of other subject grades.

W
Is a withheld result, granted in exceptional circumstances to a student who through illness or other form of incapacity has been prevented from completing a sufficient number of assignments to provide a basis for a subject assessment. This has the effect of granting the student a small extension of time, usually one week, to allow additional submissions to be made and for the examiners to complete their assessment.

19. A conceded pass or R result can be awarded by the examination review committee to a student, on the recommendation of a co-ordinating examiner. This is given to a student whose mark is just below the pass/fail boundary and for whom an N grade is proposed in the relevant subject result sheet. In any one semester a student may be awarded one conceded pass only, and in order to be granted that, must have achieved passing grades in all other subjects attempted.

20. The assessment standards committee checks the collected subject assessment results. The committee consists of the Dean and Head of the School and Heads of Departments. Analysis of subject results at each level is made to compare average marks and distributions of grades. The purpose is to detect and correct anomalous results. Different examiners use different marking scales and it is important that these scales be brought into line so that the value of grades awarded is made as consistent as possible across all the subjects offered by the school. The assessment standards committee may, in consultation with a head of department and co-ordinating examiner, move grade boundaries to adjust subject results.

21. The examination review committee, i.e. the full time academic staff of the School, meets to consider consolidated results. Medical and other evidence about factors affecting a student's performance plus records of absences and approved leave are mentioned for each student, N and W results are resolved and R results awarded. The across-the-board comparison of student performance is valuable in deciding borderline cases. Students who, as a result of failures are denied access to subjects are identified. When approved and adopted by the examination review committee, results become official and are released to students.

22. A review of subject assessment can be sought by students who believe that they can produce evidence which should cause the University to review and alter a subject assessment. In general, a subject assessment will be reviewed in the light of evidence that:

1. Assignment submissions, the mark for which should have contributed to the subject result, were not assessed;

2. Assignment submissions whose marks should have

contributed to the subject result where not incorporated in the subject assessment;

3. The student's temporary disability or unavoidable absence from the University, attested to by a special leave or by evidence from a medical practitioner or a University counsellor, was not considered in the determination of the subject grade.

A review of subject assessment does not involve a re-examination of submitted work or a re-marking of that work. The review consists of a check of records to see that all submitted assignment work has been received and assessed, that all relevant marks have been recorded and incorporated in the subject result, that proper account has been taken of a student's disabilities and unavoidable absences and that the subject assessment result has been properly compiled. Application for this must be made to the Registrar, with a fee paid per subject to be reviewed.

GRADUATE COURSES

GRADUATE DIPLOMA IN DESIGN STUDIES

The Graduate Diploma in Design Studies is a two-year, part-time post-diploma/degree course.

Course Requirements

The Graduate Diploma in Design Studies is aimed at equipping graduates in related fields with the knowledge and understanding necessary to work with practising designers in effective association. Consequently the course is planned to provide a useful understanding of design, and of the methods and values of designers.

Qualifications for Entry

To qualify for entry to the Graduate Diploma in Design Studies and applicant shall:

1. Possess a Bachelor's Degree, Diploma or equivalent qualification in an appropriate area, or

2. Submit other evidence of general and professional qualifications which will satisfy the Postgraduate Committee that the applicant possesses the educational preparation and capacity to pursue graduate studies.

The course can be completed in two years of part time study, involving four to eight hours of classes weekly.

To qualify for the Graduate Diploma in Design Studies a student must achieve 24 credit points in not fewer than four semesters of study.

14 credit points must be achieved from the core subjects -

81020 Management Techniques & Design *or*
81920 Marketing and Design
82901 Psychology of Design
82903 Technological Change
89912 Design Case Studies
89012 Design Practice
89013 Design Case Studies
89914 Design Practice

The remaining 10 credit points must be achieved from elective subjects drawn from the areas of:

- User Studies
- Technology Studies
- Management Studies
- General Studies

In consultation with the director of postgraduate studies each student plans a programme of study suited to their needs, bearing in mind their prior study and work experience.

Students may be granted exemption from, and credit for, subjects which have been studied previously at post-graduate level. The maximum extent of such exemptions and credits is 12 credit points.

The following list of subjects grouped by areas of study gives an indication of the content of the course. Subject numbers ending 9xx are offered in Autumn semester; those ending 0xx are offered in Spring semester.

Design Studies

Subjects in the Design Studies area are concerned with the beliefs, values and methods of designers and with the practice of design.

89012* Design Case Studies 2
89912* Design Case Studies 1
89914* Design Practice 1

User Studies

Subjects in the User Studies area provide knowledge of the means by which the needs, wants and preferences of the users of humankind's objects, environments and messages are identified and assessed.

82009 Human Factors and Design
82901* Psychology of Design

Technology Studies
Subjects in the Technology Studies area provide knowledge of the established and emerging technologies with which designers must deal.

82015 Appropriate Technology
82903* Technological Change

Management Studies
Subjects in the Management Studies area provide knowledge of managerial structures and methods by which organisations and activities, in particular design and production, are directed and controlled.

81020** Management Techniques and Design
81920** Marketing & Design
81921 Innovation Management & Design

General Studies
Subjects in the General Studies area provide knowledge of relevant aspects of history and contemporary culture. Students may be granted approval to undertake suitable postgraduate subjects offered by other Faculties and universities as general studies. A two unit strand in aspects of computing is offered in this area.

81024 Computer Aided Design Project
81025 Design History
81922 Computer Aided Design
81923 Introduction to Computer Graphics
81924 Advanced Computer Aided Projects
82014 Special Studies 2
82913 Special Studies 1
89916 Project (12 credit points - 2 semesters)

* Core Subject
** Alternate core subjects

MASTER OF DESIGN

The Master of Design is a two year full time or four year part time postgraduate course, presented by way of coursework.

Course Requirements

The M.Design course is aimed at equipping experienced graduate designers with the specialised knowledge and abilities necessary for their successful activity as professional designers in specially demanding areas of design practice.

Qualifications for Entry

To be selected for admission to the Master of Design by Coursework an applicant normally would be required to:

1. Possess a recognised four year degree or equivalent in an appropriate area of design, and
2. Have completed not less than two years of appropriate professional experience after graduation.

In exceptional circumstances, applicants who do not meet these criteria may be considered for entry by the Postgraduate Committee on the basis of their professional and academic experience.

Each student is assisted in developing a pattern of study suited to their own needs, made up of course work and project work.

To qualify for the M.Design a student must achieve 36 credit points in not fewer than four semesters of study.

12 credit points must be achieved from project, i.e. by two semesters successful work on an approved project programme.

14 credit points must be achieved from the core coursework subjects:

81020 Management Techniques and Design *or*
81920 Marketing and Design
82004 Design Decision Making
82013 Research Seminar
82901 Psychology of Design
82903 Technological Change
82905 Research Methods
82912 Design Seminar

The remaining points must be achieved from an approved programme of elective coursework subjects from the areas:

* User Studies
* Technology Studies
* Management Studies
* Methodology Studies
* General Studies

Students may be granted exemption from, and credit for, subjects which have been studied previously at Masters Degree level. The maximum extent of such exemptions and credits is 7 credit points.

The following list of subjects gives an indication of the content and format of the course. Subject numbers ending 9xx are offered in Autumn semester, those ending 0xx are offered in Spring semester.

Project
Project is the programme of individual supervised research and/or design activity undertaken by each student, leading to the submission for assessment of an original body of work. A design project normally consists of four elements or phases - research, development, evaluation and report.

User Studies
Subjects in the user studies area provide knowledge of the means by which the needs, wants and preferences of the users of mankind's objects, environments and messages are identified and assessed.

82009 Human Factors and Design
82901* Psychology of Design
82902 Sociology of Design

Technology Studies
Subjects in the technology area provide knowledge of the established and emerging technologies with which designers must deal.

81021 Communication Technology
82015 Appropriate Technology
82903* Technological Change

Management Studies
Subjects in the management studies area provide knowledge of managerial structures and methods by which organisations and activities, in particular design and production, are directed and controlled.

81020** Management Techniques and Design
81920** Marketing and Design
81921 Innovation Management and Design

Methodology Studies
Subjects in the methodology area provide knowledge of the means by which design decisions are made by individuals and groups.

82004* Design Decision Making
82013* Research Seminar
82905* Research Methods
82912* Designer Seminar

General Studies
Subjects in the general studies area provide knowledge of relevant aspects of history and contemporary culture. Students may be granted approval to undertake suitable postgraduate subjects offered by other faculties, schools and universities as general studies. A two subject strand in aspects of computing relevant to design is offered in this area.

81022 Microcomputer Applications
81025 Design History
81922 Computer Aided Design
81923 Introduction to Computer Graphics
81924 Advanced Computer Aided Projects
82014 Special Studies 2
82913 Special Studies 1
89916 Project (12 credit points - 2 semesters)

* Core subject
** Alternate core subjects

MASTER OF DESIGN

The Master of Design (by thesis) aims to provide opportunities for graduate research work and awards to honours graduates and other graduates who have established their capacity to perform at a high level in such advanced work.

To qualify for the Master of Design (by thesis) degree a student will be required to complete successfully a number of coursework subjects, and to complete a thesis which is judged by its examiners to be a distinct and substantial contribution to knowledge of design.

SYNOPSES

81020 MANAGEMENT TECHNIQUES & DESIGN

Aim: To provide a working knowledge of the range of management skills and techniques used in the planning and control of design projects. The subject consists of a series of seminar/tutorials, case studies and assignments concerned with such topics as task scheduling; planning systems and control models; programme evaluation and review techniques; critical path monitoring; organisational development; personnel recruitment and staffing structures; organisational models; union and labour relations.

81021 COMMUNICATION TECHNOLOGY

Aim: To provide an understanding of the current state of communication theory and practice with particular reference to the designer's role in shaping components of communication systems. The subject consists of a series of lectures, seminars and investigations concerned with such topics as defining the communica-

tion task; the nature of signals; print and audio visual technology; telecommunications systems - cable and satellite technology; information retrieval systems; matching hardware to task.

81022 MICROCOMPUTER APPLICATIONS

Aim: To provide a working knowledge of microcomputer applications of particular relevance to design. A series of lectures and seminars/tutorials are undertaken concerned with providing a working knowledge in the use of Macintosh microcomputers for a range of applications such as word processing, filing databases, spread sheets, desktop publishing and graphics.

81024 COMPUTER AIDED DESIGN PROJECT

Aim: To provide selected postgraduate students who have previously attained a minimum of a credit pass in their first year computing courses with the opportunity to apply computer techniques to specific design projects in areas such as CAD, Paintbox and Desktop Publishing.

81025 DESIGN HISTORY

Aim: To furnish a historical perspective on design and designers. A series of lectures, seminars and tutorials are undertaken concerned with such topics as artefacts, communications, environment and culture and group studies on different aspects of the technology society interface.

81920 MARKETING & DESIGN

Aim: To provide a working knowledge of the concept of marketing, and an understanding of the problems faced by management in achieving marketing success. The subject consists of a series of seminar/tutorials including case studies concerned with such topics as market segmentation, market research, new product development, packaging, pricing, promotion, advertising, product image, test marketing, strategies and tactics for existing products, services and societal marketing, legislation, and consumerism.

81921 INNOVATION MANAGEMENT & DESIGN

Aim: To provide an understanding of innovation, its place in the planning and management of commercial and industrial firms, and the role of the designer in innovation and processes of change. The subject consists of a series of seminars/tutorials and case studies concerned with such topics as development of new products and services, research/development/ marketing/production interfaces, managing technological change, planning models and techniques, predictive models.

81922 COMPUTER AIDED DESIGN

Aim: To provide a theoretical background and some working experience in computer aided design (CAD) and computer graphics systems. A series of lectures and seminars on the recent development in CAD and computer graphics and projects giving direct experience of typical systems.

81923 INTRODUCTION TO COMPUTER GRAPHICS

Aim: To provide a working knowledge of the principles and applications of computer graphics to problem solving. The subject consists of a series of lectures and tutorials concerned with the history and current developments of computer graphics and the implications for the design professions. The graphics techniques will include paintbrush systems, live diagrams, typography and animation. Projects provide an introduction to microcomputers and standard graphics software packages.

81924 ADVANCED COMPUTER AIDED PROJECTS

Aim: To give selected students who have attained appropriate experience in computer graphics and design skills the ability to understand and operate high end computer graphics and design programmes. Students will be set a variety of projects and they will be required to undertake a wide range of computer programmes. They will also be encouraged to develop their imagination, creativity and conceptual depth. The studio/design format of the class will be supported by visits to computer graphic agencies and in-class workshops with practising computer graphics designers.

82004 DESIGN DECISION MAKING

Aim: To provide an understanding of the ways in which individuals and groups make and implement decisions regarding policies and actions, with particular reference to decisions in the area of design. A series of lectures, seminars and tutorials are undertaken concerned with such issues as thought and decision making; overt and intuitive decision making; defining problems and developing appropriate decision making strategies; logic, scientific methods and the rational decision making model.

82009 HUMAN FACTORS AND DESIGN

Aim: To provide an understanding of the physiological, psychological and social factors pertinent to the successful interaction of humans, environments and machines in a range of contemporary work situations. A series of lectures, seminars and case studies.

82013 RESEARCH SEMINAR

Aim: To provide to students understanding of the role and incentives for research in areas associated with design and to enable students to assist each other in early development of research projects. A series of lectures and student presentations.

82014 SPECIAL STUDIES 2

See 82913 Special Studies 1

82015 APPROPRIATE TECHNOLOGY

Aim: To develop an awareness of the social linkages of technology (environmental, social, psychological, legal, ethical, health and safety, economic, institutional), the form of these linkages today and opportunities for the future. The course is presented through a series of lectures and student discussions which focus on different aspects of the technology/society interface, using contemporary issues where possible.

82901 PSYCHOLOGY OF DESIGN

Aim: To provide an understanding of aspects of psychology especially relevant to design practice. Lectures and seminars are conducted on relevant examples and case studies to develop insights into:

a) the fundamentals of human perception;
b) non verbal communication;
c) human behaviours in small scale environments such as workplaces, and
d) human behaviour in large scale environments such as towns.

82902 SOCIOLOGY OF DESIGN

Aim: To provide a sociological perspective upon and a social definition of the designer, together with an understanding of the designer's role in contemporary society and the social uses of design. The subject consists of a series of lectures, seminars and investigations concerned with such issues as identifying the range of decisions classifiable as design; identifying the design decision makers; values, trends, fashion and fads; status symbols; the designer/client relationship; the future technologies; the social context of work; the designer in the consumer society; professionalism.

82903 TECHNOLOGICAL CHANGE

Aim: To provide an appreciation of the political, economic and social influences on technological change, the processes developed to foster technological change and the strengths and weaknesses of these. Particular emphasis is given to the Australian situation.

82905 RESEARCH METHODS

Aim: To provide an understanding of the methods of research. The course combines lectures with opportunities for first hand experience. Lecture topics include choosing a topic, fact finding, assessment of information, problem definition and bounding, problem solving, project planning, report writing and forecasting. This is supplemented by practical sessions in the use of a major research library and especially its resources (abstracts, indices, computer data bases), and problem solving (synetics, brainstorming).

82912 DESIGN SEMINAR

Aim: To identify and discuss contemporary issues in design theory and practice in order to help in selecting suitable topics for Masters projects.

82913 SPECIAL STUDIES 1

Special Studies 1 & 2 units are available to Masters students and Graduate Diploma students at the discretion of the Director of Postgraduate Studies.

Aim: For Graduate Diploma students these units are to enable students to define and carry out projects that explore and develop issues raised during the previous coursework. For Masters students these units provide an opportunity to define and carry out preliminary studies in support of their final project.

89012 DESIGN PRACTICE Semester 2

Aim: To provide an understanding of the techniques of research, decision making and evaluation involved in the practice of design and of the designer/client interface in product and communication design. Projects are undertaken in which students work together with a designer in the development of a design proposal in the

area of either the manufacturing or the communication industry. As an alternative to participation in group activity, a student may be permitted to undertake an individual research and design project.

89013 DESIGN CASE STUDIES Semester 2

Aim: To provide further understanding of the forms of design practice; the design processes used in the solution of a broad range of design problems; the values employed by designers in their work; the means by which designs are evaluated. A series of lectures and seminars involving practising designers and focusing on their professional roles, responsibilities and methods. The areas addressed in this semester may include fashion, textile, industrial, film and television production, graphic, exhibition design.

89912 DESIGN CASE STUDIES Semester 1

Aim: To provide an understanding of the forms of design practice; the design processes used in the solution of a broad range of design problems; the values employed by designers in their work; the means by which designs are evaluated. A series of lectures and seminars involving practising designers and focusing on their range of practice and design methods. The theme for this semester unit is environmental design, encompassing physical planning, civic design, landscape architecture, architecture, civil engineering, interior design. Problems of conservation and restoration, as well as new projects will be investigated.

89914 DESIGN PRACTICE Semester 1

Aim: To provide an understanding of the techniques of research, decision making and evaluation involved in the practice of design and of the designer/client interface in environmental design. Projects are undertaken in which students work together with a designer in the development of a design proposal in the area of environmental design. As an alternative to participation in group activity, a student may be permitted to undertake an individual research and design project.

89916 DESIGN PROJECT
12 Credit Points

Design Project is a programme of individual supervised research or design activity undertaken by each student, leading to the submission for assessment of an original body of work. A design project normally consists of four elements or phases - research, development, evaluation and report.

COURSE RULES

GRADUATE DIPLOMA IN DESIGN STUDIES

These rules are to be read in conjunction with the rules for Graduate Diploma of the University of Technology, Sydney.

1. Award and Graduation

A student is deemed to have completed the educational requirements for the Graduate Diploma in Design Studies when he/she has achieved twenty-four credit points made up of:

1.1 14 credit points from required core subjects;

1.2 10 credit points from elective subjects.

2. Assessment Period

The assessment period for the School of Design is one semester.

3. Credit Point System

Each subject offered for credit toward the Diploma has a credit point value which reflects the effort normally required to complete the subject's study and other work and which provides the basis for the subject's weighting factor.

4. Minimum Credit Points

The minimum number of credit points for which a full time student can be enrolled in a semester is 9.

5. Maximum Credit Points

The maximum number of credit points for which a student can be enrolled in a semester is 15. This maximum may be varied with the approval of the School Board.

6. Special Leave

6.1 Students who for good reasons such as illness, family or financial difficulties or misadventure cannot attend classes and undertake assignments for a period during a semester may apply for special leave.

6.2 Applications for special leave must be in the appropriate form and be endorsed by the applicant's

Academic Adviser and the Head of the Department responsible for the applicant's major studies before being lodged with the Head of School.

6.3 Special leave normally is limited to four weeks duration and students temporarily absent with or without special leave must make arrangements with the co-ordinating examiners responsible for the subject in which they are enrolled to meet the requirements for assessment in those subjects.

7. Assessment Policy
Student work is assessed in accordance with the assessment policy adopted and issued by the School Board.

8. Ownership of Student Work (under review)
Students as part of their course requirements produce items of work which are the subject of assessment.

8.1 Where students are engaged as part of their course requirements in the creation of works for third party commissions the party commission ing that work may negotiate rights to reproduce, copy or implement a student's design or make and sell products to that design. Students should seek advice in order to protect their rights and interests in such cases.

8.2 During the calendar year in which an item or work is produced in satisfaction of course requirements the University may have reason able access to that work including for the purposes of assessment, exhibition, reproduction or publication except that the University upon writ ten request from the student who is author of the work will refrain from using that work in any way which could jeopardise the student's ability to protect any intangible rights which may attach to the work.

8.3 During the calendar year in which an item or work is produced in satisfaction of course requirements the student who is author of the work may exhibit, publish or reproduce the work provided all course requirements have been satisfied beforehand and provided no reference is made to the University or the student's association with the University without the prior written approval of the Registrar.

COURSE RULES

MASTER OF DESIGN

These rules are to be read in conjunction with the rules, including the rules for Masters Degrees by coursework, of the University of Technology, Sydney.

1. Award and Graduation
A student is deemed to have completed the educational requirements for the Master of Design (by coursework) when he/she has achieved 36 credit points made up of:

1.1 14 credit points from required core subjects;

1.2 10 credit points from elective subjects;

1.3 12 credit points from an approved project

and has submitted in a format according to the requirements of Appendix A, with two copies of a record of their project work.

2. Assessment Period
The assessment period for the School of Design is one semester.

3. Credit Point System
Each subject offered for credit toward the degree has a credit point value which reflects the effort normally required to complete the subject's study and other work and which provides the basis for the subject's weighting factor.

4. Minimum Credit Points
The minimum number of credit points for which a full time student can be enrolled in a semester is 9.

5. Maximum Credit Points
The maximum number of credit points for which a student can be enrolled in a semester is 15. This maximum may be varied with the approval of the School Board.

6. Special Leave
6.1 Students who for good reasons, such as illness, family or financial difficulties or misadventure, cannot attend classes and undertake assignments for a period during a semester may apply for special leave.

6.2 Applications for special leave must be in the appropriate form and be endorsed by the

applicant's Academic Adviser before being lodged with the Head of School.

6.3 Special leave normally is limited to four weeks duration and students temporarily absent with or without special leave must make arrangements with the co-ordinating examiners responsible for the subjects in which they are enrolled.

7. Assessment Policy

Student work is assessed in accordance with the assessment policy adopted and issued by the School Board.

8. Ownership of Student Work (under review)

Students as part of their course requirements produce items of work which are the subject of assessment.

8.1 Where students are engaged as part of their course requirements in the creation of works for third party commissions, the party commissioning that work may negotiate rights to reproduce, copy or implement a student's design or make and sell products to that design. Students should seek advice in order to protect their rights and interests in such cases.

8.2 During the calendar year in which an item of work is produced in satisfaction of course requirements the University may have reasonable access to that work, including for the purposes of assessment, exhibition, reproduction or publication, except that the University upon written request from the student who is author of the work will refrain from using that work in any way which could jeopardise the student's ability to protect any intangible rights which may attach to the work.

8.3 During the calendar year in which an item of work is produced in satisfaction of course requirements the student who is author of the work may exhibit, publish or reproduce the work provided all course requirements have been satisfied beforehand and provided no reference is made to the University or the Student's Association with the University without prior written approval of the Registrar.

Appendix A - Record of Project Work

1. Record of Project Work

Two copies of a full documentary record of a candidate's project shall be submitted in a format approved by the Design School Board.

2. Volume

Where the format of the record is a bound volume:

2.1 The volume shall be compiled in accordance with the guidelines of Turabian, Kate L., Students Guide for Writing College Papers. (University of Chicago Press).

2.2 The title page shall contain the volume title, author's name, degree, and year of submission.

2.3 All copies of the volume shall be in good quality typescript on one side of the paper only. In the main body of the volume one-and-a-half spacing is preferred, but double spacing may be used only for appendices and footnotes.

2.4 The paper used shall be good quality medium weight opaque white stock and the form of reproduction shall be original typescript, offset printing of high grade dry photocopy.

2.5 The size of paper shall be I.S.O. paper size A4 (297mm x 210mm) except for illustrative material on which no restriction is placed.

2.6 The margin on each sheet shall be not less than 40mm on the left-hand side, 20mm on the right-hand side, 20mm at the top and 30mm on the bottom.

2.7 Each copy of the volume shall have an abstract of not more than 400 words bound in immediately after the title page.

2.8 Beginning with the first page of the Introduction (or Chapter One if there is no separate introduction), pages shall be numbered consecutively, using Arabic numerals.

2.9 Except with the approval of the supervisor, illustrations, charts, tables etc, shall be bound with the text, immediately after the first reference to them, as right-hand pages with the caption at the bottom or if necessary on the page facing the figure.

2.10 Diagrams, maps, tables etc., which exceed A4 size shall be either-

(a) Folded so as to read as a right-hand page when opened.
(b) Clearly referenced in the text, numbered and folded for insertion in a pocket in the back cover of the volume binding.

2.11 All loose material shall be clearly marked with author's name, the volume title and the degree for which it is submitted.

2.12 Each copy of the volume submitted shall be bound in boards covered with buchram or similar and embossed on the spine as follows:
(a) 90mm from the bottom and across, the degree and year of submission;
(b) Evenly spaced between the statement in (2.12.b) and the top of the spine, the initials and surname of the author. No other lettering or decoration shall appear on the spine; or
(c) Where the spine of the thesis is too thin to support lettering across, the wording shall be written along the spine reading from top to bottom in all cases.

2.13 The cover of the volume shall be Oxford green and the lettering shall be gold.

3. Access to Record of Project Work

3.1 The original or best copy, if there is a difference in quality of the copies, shall be deposited with the University Library.

3.2 (a) The copy deposited with the University Library will be available for consultation, loan, or copying at the discretion of the University Librarian, unless the University on the application of the candidate determines that it shall not be available until after the expiry of a period, which period shall not normally exceed two years.
(b) The University Librarian shall require each user and recipient of a copy of a volume to undertake in writing to respect the author's rights under the law relating to Copyrights.
(c) Candidates for a Masters Degree may, when they lodge a record containing restricted or confidential information which the candidate does not desire to be disclosed freely, request that it be released to other persons only on the authorisation of the Registrar in consultation with the Head of School, otherwise by lodging a record a candidate consents to its release.
(d) Where the record contains material which the candidate considers should have restricted distribution the Head of School shall be informed which parts are classified. If further precautions are required such as more secure transmission than registered post the costs will be borne by the candidate.
(e) Where a candidate states that a record con tains confidential information which the can didate does not desire to be disclosed freely, the candidate may, to the extent that it is possible, place that information in an appendix to the record.
(f) The University Librarian shall not disclose to any person an appendix where the candidate states that the appendix contains restricted or confidential information, unless the Registrar in consultation with the Head of School has authorised such disclosure.

COURSE ADVISORY COMMITTEES

FASHION AND TEXTILE DESIGN
Ex-Officio Members
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A.G. Caban (Chair)
Dean, Faculty of Design, Architecture & Building
V. Ireland
Head, Department of Fashion and Textile Design
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R. Francis, Swinburne Institute of Technology
S. Pemberton, ISIS Design
R. Wakefield, Horniak & Canny

THE STUDENTS' ASSOCIATION (SA)

All students of the University are members of the SA. In general the SA plays a representative and advoacy role on behalf of students. It also operates to organise and encourage students themselves to become active in campaigns. It liaises closely with the University Union and the Student Services Unit. Additionally, it negotiates with and/or lobbies government and non-government organisations on education and welfare issues in the interests of the students.

The Students' Association maintains close links with student bodies in other tertiary institutions and has political role to play in maintaining educational standards and conditions for students both within the University and the tertiary sector as a whole.

The SA is governed by the Student Representative Council (SRC) which deals with University-wide issues and is responsible for controlling the SA's funds. At a campus level there are Campus Committees dealing with campus related issues. There are five Campus Committees:

- Balmain
- Broadway
- Kuring-gai
- Haymarket
- Northern (Gore Hill & St Leonards)

The SRC and the Campus Committees are elected by students and are accountable to the student body. Any student is welcome to attend the SRC and Campus Committee meetings.

The full-time paid President of the SA is directly elected by students. An Executive Committee assists the President in carrying out the directions of the SRC and the day-to-day management of the Association. The Education Vice-President is employed to represent student education interests. At a campus level the Campus Convenor carries out the directions of the Campus Committee and generally represents the Campus.

A Women's Officer and International Students' Officer are employed on a full-time basis. A Special Needs Officer is employed on a part-time basis to provide support and representation to students with disabilities.

The SA provides resource centres at Broadway, Haymarket, Gore Hill and Balmain, second-hand bookshops at Broadway, Haymarket and Kuring-gai, and photocopying is provided at Broadway, Haymarket, Gore Hill, St Leonards and Balmain. Three Education Officers are employed by the SA to provide assistance in educational matters and Austudy.

For further information contact the main office of the SA which is located at the Broadway campus on level 3A of the Tower Building (telephone 218 9064). Opening hours: 9.00am to 7.00pm. Or alternatively contact the Students' Centre at Balmain campus (Batty Street).

PRINCIPAL DATES FOR 1991

AUTUMN SEMESTER

January

14	Release of HSC results
21	Closing date for changes of preference of 1990 NSW HSC applicants (4.30 pm)
26	Australia Day
29	Public School Holidays end
29-31	Enrolment of continuing students at Broadway Campus

February

1-21	Enrolment of continuing and new students at Broadway Campus
25-28	Enrolment at Kuring-gai Campus
27-28	University Orientation Day at Broadway Campus

March

1	University Orientation Day at Kuring-gai Campus
15	Last day to enrol in a course or add subjects
28	Last day to apply for leave of absence
29	Public School Holidays commence
29	Good Friday
31	HECS Census Date

April

1	Easter Monday
1-5	Vice-Chancellors' Week (non-teaching)
7	Public School Holidays end
12	Last day to drop a subject without academic penalty
12	Last day to withdraw from course without academic penalty
25	Anzac Day
29	Graduation Ceremonies commence

May

10	Graduation Ceremonies finish
24-25	Information Evening
31	Closing date for applications for Spring Semester

June

7	Formal examinations commence
29	Public School Holidays commence

SPRING SEMESTER

July

5	End of formal examinations
3-12	Vice-Chancellors' week (non-teaching)
14	End of Public School Holidays
19-26	Enrolment of new students

August

9	Last day to enrol in a course or add subjects
23	Last day to apply for Leave of Absence
31	HECS Census Date

September

6	Last day to drop a subject
6	Last day to withdraw from a course
28	Public School Holidays commence
30	Undergraduate applications close for admission in 1992
30	Vice-Chancellors' Week (non-teaching)

October

6	End of Public School holidays

November

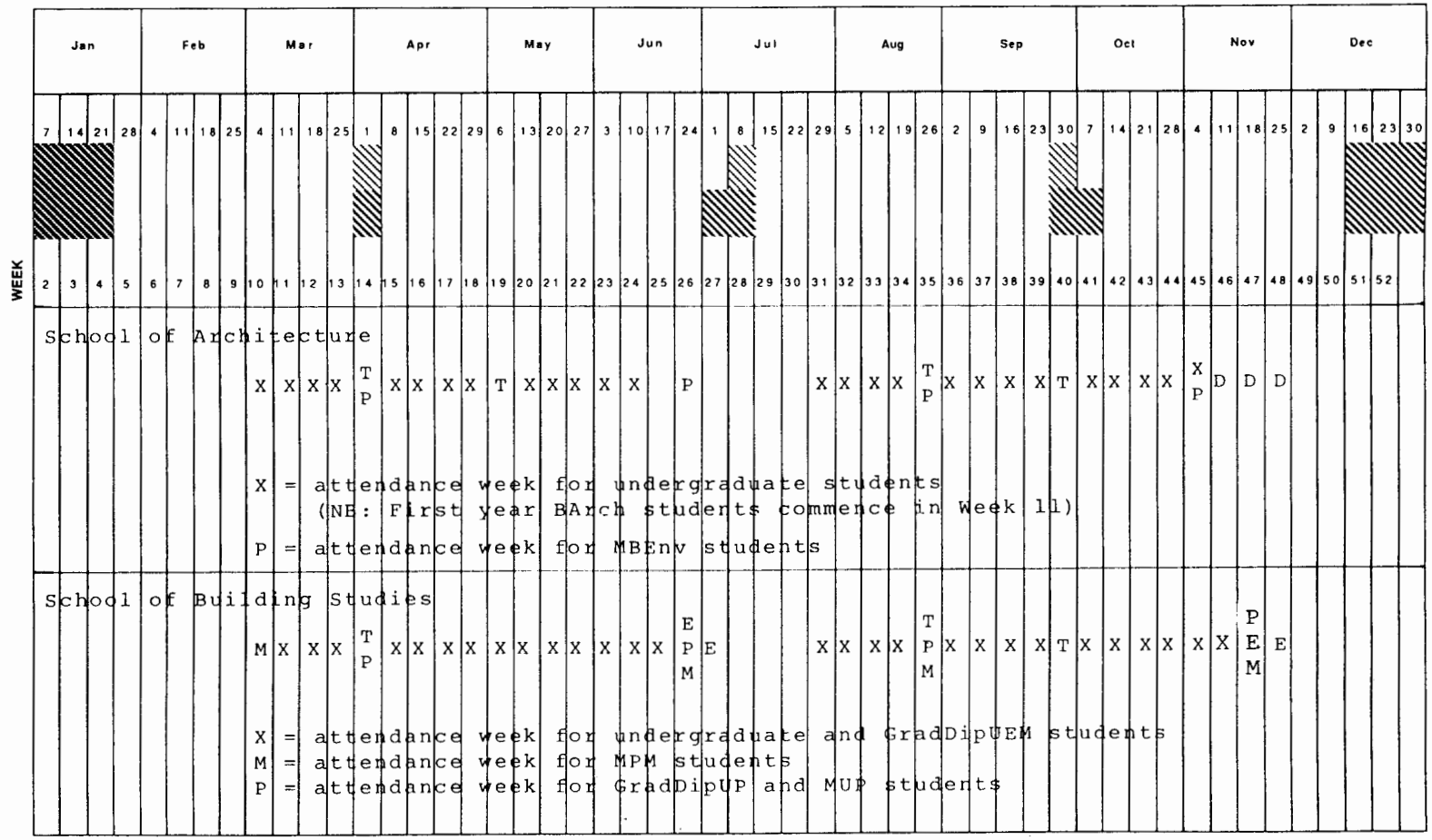
11	Formal examinations commence

December

6	End of formal examinations
14	Public School Holidays commence

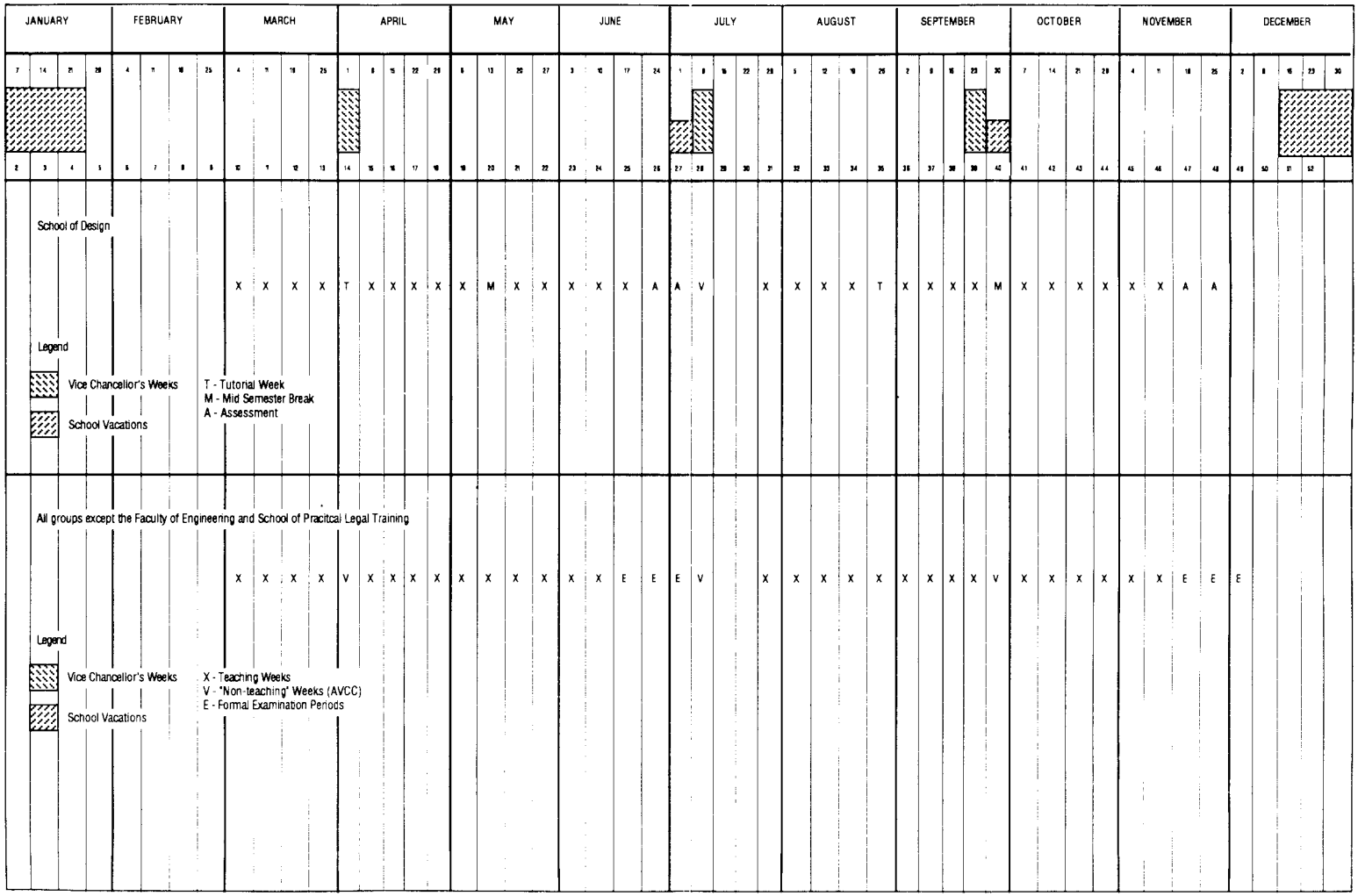
ACADEMIC YEAR PATTERN -

SCHOOLS OF ARCHITECTURE & BUILDING STUDIES



ACADEMIC YEAR PATTERN -

SCHOOL OF DESIGN



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