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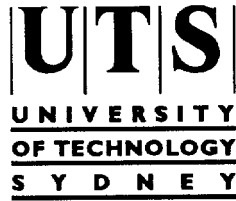
**UTS**  
UNIVERSITY  
OF TECHNOLOGY  
SYDNEY

1992



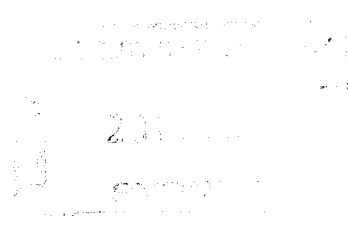
**FACULTY OF DESIGN,  
ARCHITECTURE AND BUILDING**

**HANDBOOK ♦ 1992**



**FACULTY OF  
DESIGN,  
ARCHITECTURE  
AND BUILDING**

**HANDBOOK  
1992**



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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) and on the entrance level of Kuring-gai campus. If you can't visit them, write to PO Box 123 Broadway 2007 NSW Australia or telephone (02) 330 1222 or (02) 413 8200.

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

Open Days are your chance to visit the campus and discuss your career plans and course preferences with members of the Academic staff.

### 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.

## EQUAL OPPORTUNITY

It is the policy of the University of Technology, Sydney to provide equal opportunity for all persons regardless of sex, race, marital status, physical ability, sexual preference, political conviction or religious belief.

## 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 graduates 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.



## STUDENT SERVICES

Student Services staff are employed by the University to cater for your health, counselling and welfare needs. Staff also assist in the development of study skills and provision for students with disabilities.

### WELFARE

Welfare Officers offer assistance with your personal financial security. Central to their work is administration of the Student Loan Fund, and advising on Austudy claims and appeals.

### HEALTH

The Health Service has two locations: Level 3A of the Broadway Tower on City campus and Level 5 of Kuring-gai campus. The practice offers a free service with an emphasis on Health Education and Promotion.

### COUNSELLING

Counsellors are available on all campuses at least one day per week. They are experienced in dealing with personal difficulties and can advise on administrative matters in relation to the University, such as appeals against exclusion. If you suffer from exam nerves or loss of concentration, you're welcome to see one of the counsellors for assistance. They can also help you to clarify personal and career goals.

### STUDY SKILLS

The Study Skills Counsellor, John Piechocki, helps students to understand how best they can learn. Advice is given on time management, writing assignments and how to read and comprehend more in less time. You don't need to have problems to see John - Study Skills counselling is about improving your performance.

### ASSISTANCE FOR STUDENTS WITH DISABILITIES

The Special Needs Co-ordinator works with academic, administrative and Student Services staff to ensure appropriate support is available for students with disabilities. Students who have disabilities or chronic illness are encouraged to contact Marie Flood at Level 3A of City campus, Broadway. Telephone (02) 330 1177 or TTY (02) 330 1164 or Fax: (02) 330 1172

## WHERE & WHEN TO FIND STUDENT SERVICES

### Kuring-gai

Level 5

Monday to Friday 9-5

### Broadway

Level 3A, Broadway Tower

Monday to Thursday 9-6

Friday 9-5

### Haymarket

Room D105

Monday to Thursday 9-5

### Balmain

Student Centre, White Bay

Tuesday & Wednesday 9-5

### Gore Hill

Clinical Studies Building, Level 1

Tuesday to Thursday 9-5

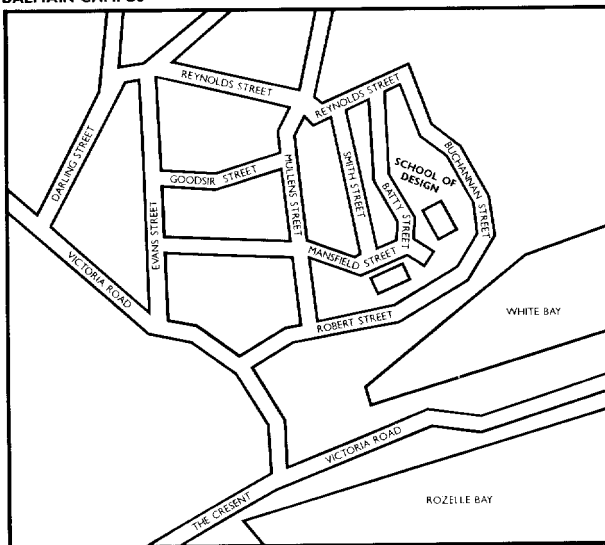
## FACULTY LOCATION MAPS

## Faculty of Design, Architecture and Building

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

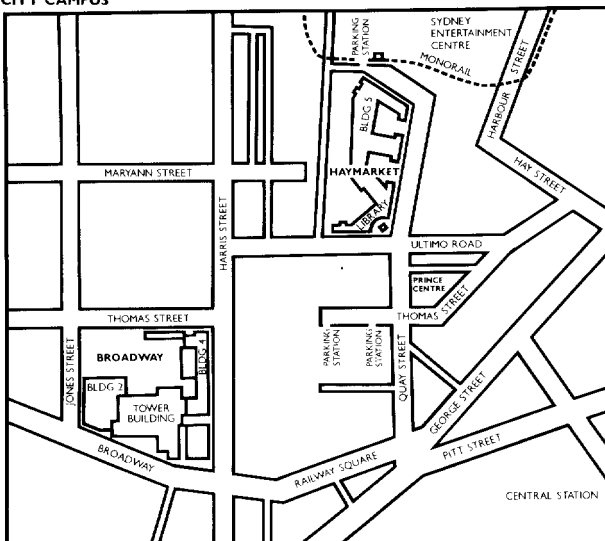
Postal Address:  
PO Box 123,  
Broadway NSW 2007

### BALMAIN CAMPUS



**School of Design**  
Mansfield and Batty Streets,  
Balmain Campus  
Telephone: (02) 330 2913  
Facsimile: (02) 330 2933

### CITY CAMPUS



**School of Architecture**  
Level, Building 2,  
City Campus  
Telephone: (02) 330 2777/8/9  
Facsimile: (02) 330 2711

**School of Building Studies**  
Level 7, Building 2  
City Campus  
Telephone: (02) 330 2777/8/9  
Facsimile: (02) 330 2711

## MESSAGE FROM THE DEAN

Members of the Faculty of Design, Architecture and Building have taken the opportunity, during the Faculty's foundation year, to familiarise themselves with the roles and activities of their new Faculty partners, and to identify potential areas of interaction.

A Faculty Retreat held at Leura during 1991 enabled academic and non-academic staff to develop an appreciation of the academic programmes and administrative procedures operating in the three Schools, and to initiate a range of integrated Faculty programmes.

Despite the constraint on the integration of activities imposed by the current split location of the Faculty, staff from the three Schools have co-operated in an application for a Category B Research Infrastructure Grant on the theme of Patterns of Human Settlement and Design, and in an application for the establishment of a Centre of the same name. Planning for the Faculty's new building in Harris Street is proceeding on the basis of a range of shared resources and facilities which will increase the scope for co-operative activities. In November 1991, the three Schools combined to hold the new Faculty's first Degree Show and Fashion Parade at Darling Harbour.

There have been a number of significant staffing changes in the Faculty in recent months. The resignation of foundation Dean Professor Vernon Ireland, who has accepted a position in private industry, has meant changes to the positions of Dean of the Faculty and also Head of the School of Design. Associate Professor Douglas Tomkin this year commences his appointment as Head of the Department of Industrial Design following the stepping down from that position of Associate Professor James Montague.

The appointment of the new Faculty Administrator has coincided with the devolvement of a range of UTS activities, and has provided the impetus and opportunity for a review of administrative procedures in the Faculty.

Geoffrey Caban  
Associate Professor



## STAFF

### *Dean of Design, Architecture and Building*

G Caban, BA, MEd (Syd), GradDipCommunication (NSWIT), MDIA (ED), AADM

### *Secretary to the Dean*

M Makris

### *Faculty Administrator*

S Martin, BA (NSW), MBA (UTS)

### *Administrative Officer*

L Alford, BA (Hons) (LTU), January-May)  
C Johnson, DipT (MCAE), BEd (CCAIE) (June-)

### *Student Liaison Officer*

J Lanagan, BA (Macq)

### *Receptionist*

Vacant

### *Technical Manager*

G Moor

### *Technical Officer*

A Pearson

### *Technical Assistant*

N Hey

## SCHOOL OF ARCHITECTURE

### *Associate Professor and Head of School*

W Barnett, DipArch (Dunelm), MPhil (Soton), FRSA, FRIBA

### *Secretary to Head of School*

V Tibbertsma

### *Professor of Architecture*

N D Quarry, BArch (Melb), MArch (Rice), LFRAIA

### *Senior Lecturers*

A Boddy, BArch (Melb), ARAIA  
M D Chapman, ASTC, LFRAIA, ARIBA, FIArbA  
B S Jobson, BArch, MBldgSc (Syd), MIEAust

### *Lecturers*

H Dietrich, BSc (Sheff), CertEd, MSc (Sussex)  
S Harfield, BArch (Adel)  
K J Madden, BArch (NUI), DipPP (Dub), MUrbDes (Arch) (Syd), MRAIA, ARAIA  
K Pearson-Smith, BArch (Hons) (NSWIT), ARAIA, RCA  
J Phillips, BA (Hons) (Syd), PhD (Lon)

P G Towson, MEngSc (NSW), PhD (Syd), ASTC, MIEAust

G A Youett, ArchDip (Cov), FRAIA, ARIBA

### *Visiting Professor*

G Murcutt, ASTC

## SCHOOL OF BUILDING STUDIES

### *Associate Professor and Head of School*

D J Lenard, BAppSc, MAppSc (NSWIT), FAIQS, MAIB

### *Secretary to Head of School*

C O'Hagan (January-March)  
L P Stoneman (April-)

## Postgraduate & Continuing Education

### *Associate Professor and Director*

H A MacLennan, BBuild, MSc (Build), GradDip H and NP (NSW), MAIB

### *Visiting Professor*

A A Stretton, BE (Tas), MA (Oxford), MIEAust

## Department of Building

### *Senior Lecturer and Head of Department*

P L Healy, BE (NUI), DIC, MSc (Lond), MBA (NSW), MIEAust

### *Senior Lecturers*

B R Longfoot, BE, MEngSc (NSW), ASTC, MIEAust, MAIB

### *Lecturers*

P Clarke, BBuild (UNSW), GradDipEd (Tech) (SCAE), (ITATE)  
K Heathcote, BE (Hons), GradDipEd (Tech) (ITATE), MEngSc, MCom (NSW), MIEAust  
D P Miller, BAppSc (NSWIT), DipEd, MBldgSc (Syd)  
D B Morgan, BE (NSW) DipEd (SCAE), MIEAust, LGE, MTPC, MAIB  
N R Shooter, BAppSc (Bldg) (Hons) (NSWIT), AAIM, AAIB

## Department of Land Economics

### *Senior Lecturer and Head of Department*

P Waxman, BS, DipEd (SUNY), DipEc (Stockholm), MBA (Wash)

### *Visiting Associate Professor*

M Fiedler, BCom, MCom (Melb), PhD (Qld)

*Senior Lecturers*

J Dawkins, BSc (WA), MTCP (Syd), MRAPI  
A Karantonis, BEc (UNE), MComm (NSW), ESLE

*Lecturer*

G P Small, BSurv, MComm (NSW), JP, MIS

*Research Fellow*

J Oluwoye, DipCart (UWM), BSc (USA), MCP  
(How), PhD (UNSW), MABSM, MAPA, MNITP,  
MCIT, MPBAAA

**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***Head of School*

Vacant

*Administration Officer, Finance and Properties*

R Squirchuk, BA (Macq)

*Administration Assistant, 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

M Barbagello

**Department of Fashion and Textile Design***Senior Lecturer and Head of Department*

V Horridge, MDes (RCA)

*Senior Lecturer*

G Hardwick, DA (Manc Coll Art)

*Lecturers*

R Cumpstone, CertClothing& Textiles (Wgtn Poly)

E Hagen, MDes (RCA)

R Landers, BA (SCA)

L Marchant, DipAD (Prahan CAE)

*Textile Assistant, Textiles*

P Inwood, CertTypDipTextDes (Wgtn Poly)

*Technical Officer, Fashion*

M Spear

*Technical Assistant, Fashion*

Vacant

**Department of Industrial Design***Associate Professor and Head of Department*

D Tomkin, DipArt (Ind Des) (RMIT), MDesign  
(MDes RCA)

*Associate Professors*

J Montague, PhB (Chicago), IDSA, MDIA (Ed)

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*

T Laurence, BSc (Arch), BArch (NSW), MDIA

*Senior Lecturer*

G Wilkie, GradDip T&C Planning (Syd), GradDipEd  
(STC), ARAIA

*Lecturers*

N Baker, BSc (Arch), BArch (Syd)

K Hanton, Dip (IntDes) (SCA)

J Quoyale, BSc (Arch), BArch (Syd)

*Research Officer*

J Powell, DipAd (IntDes) (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  
 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*  
 D Thompson, CertEd (dist), DipArt& Design (Preston  
 Poly), CertEd (Dist) (Hatfied Poly), MCSD  
 R Trembath, CertStructuralEng (STC), Grad-  
 DipDesStudies (UTS), MDIA (Ed)

*Laboratory Manager*  
 M Hacker

*Technical Assistant, Computing*  
 Vacant

### Unit for Integrated Design Studies

*Senior Lecturer and Head of Unit*  
 J Broadbent, BSc, PhD (Reading), GradDip-  
 EnvStudies (Macq)  
 R Hayes, BArch (Syd), MEnvStudies (Macq)  
 J Muir, BArch ((UNSW)

### Unit for Postgraduate Design Studies

*Senior Lecturer and Head of Unit*  
 D Denne, MA (York), DipBldSc (Syd), GradDipLD  
 (NSW), GradDipEd ASTC (Hons), FDIA, AADM

## 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

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

### School of Building Studies

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

### School of Design

Bachelor of Design in:  
 \* Fashion and Textiles Design  
 \* Industrial Design  
 \* Interior Design  
 \* Visual Communication  
 Graduate Certificate in Design and Technology  
 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

<b>Year 1</b>	<i>Hours/Week</i>	
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	
<b>Year 2</b>		
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	
<b>Year 3</b>		
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	
<b>Year 4</b>		
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

## SYNOPSIS

### 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 infra-structures.

**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.

Subject to the approval of the Head of School, this subject may be taken in year 5 or 6 either separately or in parallel with Elective Project 11071.

**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.

**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:

- 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.
- 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.
- The year/stage in these rules is defined as the programme for a year shown in the current edition of the Calendar.
- 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.
- Notwithstanding Rule 4 a student in any year/stage may be permitted at the discretion of the Examination Review Committee:
  - 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, assessments 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 dividing 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. Student membership may be retained by graduates for a period of twelve months.

Application details may be obtained from the Secretary, NSW Chapter, RAI A, '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 RAI A notice board at the Broadway Campus on Level 7 displays programmes of RAI A activities and the monthly bulletins. Further information may be obtained from M D Chapman (Telephone 330 2752).

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 course work 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/ DOCTOR OF PHILOSOPHY (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 in investigating the historical development of Australian architecture, and scholars in the Faculty are engaged in an 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, while 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.

#### Aim

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 Multidisciplinary 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	14
12581 Approvals Management	14
12582 Design Project - Research Methodology	14

### Semester 6

12583 Design Project - Submission	112
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## 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 inter-action 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

This involves a study of the impact of the various technologies on various building typologies; and their effect on the fabric of buildings, studied diagnostically.

**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

This is 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

Entrepreneurship, 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 2**  
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

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

**12581 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 programs, 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*

G Caban

*Head, School of Building Studies*

D Lenard

*Professor of Architecture*

N D Quarry

*Registrar and Secretary's Representative*

Vacant

**Other Members**

M Davies, Architect 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)

RS Sheldon

Board of Architects of New South Wales,

RP Fuller





**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 they are required to enrol each semester (excepting Year 1) 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. Included in this is a four-hour period of practical studies designed to provide some familiarity with industry. 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.

### Flexi-pattern attendance - Quantity Surveying

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, machines and products 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
16541	Quantities 1	1.5
51388	Communications	1
16211	Computations	3
16701	Materials 1	2
16711	Building Science	1
16601	Contextual Studies 1	2
16301	Services 1	3
16901	Structures 1	2

### Year 2 Full-time

16102	Construction 2F	4
16611	Building Design	2
16602	Contextual Studies 2	2
16531	Estimating 1	2
16402	Management 2	2
16702	Materials 2	2
16902	Structures 2	3
16542	Quantities 2	2
16801	Legal Studies 1	2
16403	Management 3	1
Practical Experience Requirements		
16199	Building Experience	4

### Year 3 Part-time

16802	Legal Studies 2	2
16404	Management 4	2
16405	Management 5	2
16903	Structures 3	2
16511	Economic Management 1	3
Practical Experience Requirements		
16199	Building Experience	3

### Year 4 Part-time

16406	Management 6	2
16532	Estimating 2	2
16512	Economic Management 2	2
16131	Professional Practice	1
16221	Project	4
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
16541	Quantities 1	1.5
51388	Communications	1
16701	Materials 1	2
16711	Building Science	1
<b>Year 2</b>		
16112	Construction 2P	2
16901	Structures 1	2
16211	Computations	3
16542	Quantities 2	2
16301	Services 1	3
Practical Experience Requirements		
16199	Building Experience	3
<b>Year 3</b>		
16113	Construction 3P	2
16601	Contextual Studies 1	2
16402	Management 2	2
16902	Structures 2	3
16611	Building Design	2
Practical Experience Requirements		
16199	Building Experience	3
<b>Year 4</b>		
16114	Construction 4P	2
16531	Estimating 1	2
16702	Materials 2	2
16602	Contextual Studies 2	2
16801	Legal Studies 1	2
16403	Management 3	1
Practical Experience Requirements		
16199	Building Experience	3
<b>Year 5</b>		
16802	Legal Studies 2	2
16404	Management 4	2
16405	Management 5	2
16903	Structures 3	2
16511	Economic Management 1	3
Practical Experience Requirements		
16199	Building Experience	3
<b>Year 6</b>		
16406	Management 6	2
16532	Estimating 2	2
16512	Economic Management 2	2
16131	Professional Practice	1
16221	Project	4
Practical Experience Requirements		
16199	Building Experience	3

## SYNOPSES

### 16101 CONSTRUCTION 1F

4.5 year hours

As Construction 1P plus Construction 2P

### 16102 CONSTRUCTION 2F

4 year hours

As Construction 3P plus Construction 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.

### **51388 COMMUNICATIONS**

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: 51388 Communications, 16111 Construction 1P*

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*

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, 12058 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 2, 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 in 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 personality; 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
16802 Legal Studies 2	2
16404 Management 4	2
16511 Economic Management 1	3
Practical Experience Requirements	
16199 Building Experience	3

**Year 4 Part-time**

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

**BUILDING SERVICES CONCENTRATION**

Six years part-time

Year 1

Year 2

Year 3

**Year 4***Hours/Week*

16304 Services 4	3
16531 Estimating 1	2

16611 Building Design	2
16801 Legal Studies 1	2
16602 Contextual Studies 2	2
Practical Experience Requirements	
16199 Building Experience	3

**Year 5**

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

**Year 6**

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

**SYNOPSIS****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 and the preparation of a comprehensive report.

**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.

**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, 12058 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 2, 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.

**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 personality; 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

### Building

#### Ex-Officio Members

*Head, School of Building Studies*

DJ Lenard

*Dean, Faculty of Design, Architecture and Building*

G Caban

*Head, School of Architecture*

W. Barnett

*Registrar and Secretary's Representative*

Vacant

#### Other Members

K Jubelin, Building Services Corporation

J Palmer, TA Taylor & Son

W Parker, Safin Pty Ltd

WAC 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

RA 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 the management of land use.

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
16551	Economics	3
16552	Financial and Trust Accounting	3
16652	Environmental Design	2
16851	Introduction to Law	2
51388	Communications	1

Year 2		Hours/Week
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		Hours/Week
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		Hours/Week
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

<b>Year 1</b>		<i>Hours/Week</i>
16161	Mathematics and Statistics	2
16351	Introduction to Valuation	1.5
16361	Real Estate Fundamentals	2
16551	Economics	3
51388	Communications	1

<b>Year 2</b>		
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

<b>Year 3</b>		
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

<b>Year 4</b>		
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

<b>Year 5</b>		
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

<b>Year 6</b>		
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

## SYNOPSIS

### 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 programs; 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.

**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 Years 1 and 2 subjects part 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 years 1 to 4 subjects part 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 - 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 differentia-

tions, 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*

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.

### **51388 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.

## **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*

G Caban

*Head, Department of Land Economics*

P Waxman

*Postgraduate Course Leader, School of Building Studies*

H MacLennan

#### **Organisation Representatives**

Society of Land Economists Ltd

P Barrington

Valuer General's Dept

P Cunningham

Council of Auctioneers & Agents

J Edwards

Real Estate Valuers Registration Board

F Egan

Aust. Institute of Valuers (NSW)

G Jones

Dept of Environment & Planning

R Meyer

Faculty of Business & Land Economy, University of Western Sydney

A Millington

Aust. Institute of Quantity Surveyors

G O'Neill

Building Owners & Managers Assoc. (NSW)

R Powys

Stock & Station Agents Assoc. of NSW

Vacant

Real Estate Institute of NSW

R Weight

#### **Nominees of the Following Organisations**

Lend Lease Development

J Banek

Jones Lang Wootton

F Charnock

School of BAS, TAFE

R Mellor

Australian Mutual Provident Society

J Ritch

GIO Investments Property Management

W Scicluna

Baillieu Knight Frank

C Weir

School of Business & Public Admin.

P Wilson

## **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 IEUs. An accelerated attendance may be approved (24 IEUs per year) provided 24 IEUs are obtained by the end of Stage 2, 723 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, and will be supplemented with assignments and activity reports.

**Flexi-pattern**

<b>Stage 1</b>		<b>Hours/Week</b>
16111	Construction 1P	2.5
16161	Mathematics and Statistics	2
16501	Quantity Surveying 1	2.5
16721	Material Science	3

<b>Stage 2</b>		
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)

<b>Stage 3</b>		
16113	Construction 3P	2
16503	Quantity Surveying 3	3
16531	Estimating 1	2
16621	Design Evaluation	3

<b>Stage 4</b>		
16114	Construction 4P	2
16521	Building Economics 1	3
16622	Environmental Planning	3
16801	Legal Studies 1	2
		72 IEUs

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

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

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

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

<b>All years (excepting Year 1)</b>		
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 1P*

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*

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

**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 programs; 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: 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. Specification 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 professional.

**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 2, 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 humanity's impact on the environment. Urban planning and sociology. Environ-

mental 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 personality; 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 Surveying****Ex-Officio Members***Head, School of Building Studies*

D Lenard (Chair)

*Dean, Faculty of Design, Architecture and Building*

G Caban

*Head, Department of Quantity Surveying*

CF Roberts

*Registrar and Secretary's Representative*

Vacant

**Other Members**

G Brookes, Leighton Contractors Pty Ltd

J Burgess, Burgess &amp; Partners Pty Ltd

S Cox, Travis Partners Pty Ltd

EB Davies, Bayley Davies Associates Pty Ltd

V Shaw, Rider Hunt &amp; Partners

DR Summers, Harding, Widnell &amp; 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 or Doctor of Philosophy, in any of its disciplines.

To qualify for admission to a Masters Degree programme, applicants will 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.

To qualify for admission to a doctoral degree, applicants will possess a Bachelors degree with First or Second Class Honours, or a Masters degree.

### 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.

#### Aim

The aim of this course in Project Management is to produce project managers who will 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

	<i>Hours/Semester</i>
17101 Project Process 1	40
17105 Project Management Studies 1	40

#### Semester 2

17201 Project Process 2	40
17205 Project Management Studies 2	40

#### Semester 3

17301 Project Process 3	40
17305 Project Management Studies 3	40

#### Semester 4

17401 Building and Construction Project Process	30
17405 Building and Construction Project Management Studies 1	30
17600 Major Report (Research Methodology)	20



**Semester 5**

17506 Building and Construction Project Management Studies 2	50
17600 Major Report (Research Methodology)	30

**Semester 6**

17600 Major Report	80
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**SYNOPSIS****17101 PROJECT PROCESS 1**

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.

**17105 PROJECT MANAGEMENT STUDIES 1**

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.

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

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**

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.

**17205 PROJECT MANAGEMENT STUDIES 2**

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.

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

Economic and financial aspects as they apply specifically to projects.

**17301 PROJECT PROCESS 3**

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

**17305 PROJECT MANAGEMENT STUDIES 3**

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.

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.

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 1**

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.

**17405 BUILDING & CONSTRUCTION PROJECT MANAGEMENT STUDIES 1**

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.

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.

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.

## 17506 BUILDING & CONSTRUCTION PROJECT MANAGEMENT STUDIES 2

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.

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.

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)

A major study, undertaken by each student individually, and equal in value to 30% of the Degree, involving a detailed study of an individual topic and the preparation of a comprehensive report.

## GRADUATE DIPLOMA OF PLANNING; MASTER OF PLANNING

### Attendance

The course involves full-time attendance of several one-week units over a period of three years. 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	36
17511 Urban Economics and Finance 1	14
17513 Urban Design and Management 1	14
17514 Law for Planners 1	14
43710 Environment and Infrastructure 1	14

### Semester 2

Units 3 and 4	Hours/Semester
17520 Planning 2	36
17521 Urban Economics and Finance 2	14
17523 Urban Design and Management 2	14
43720 Environment and Infrastructure 2	14
51710 Social and Political Aspects 1	14

**Semester 3****Units 5 and 6**

17530	Planning 3	36
17531	Urban Economics and Finance 3	14
17533	Urban Design and Management 3	14
17534	Social and Political Aspects 2	14
43730	Environment and Infrastructure 3	14

**Semester 4****Units 7 and 8**

17540	Planning 4	36
17541	Urban Economics and Finance 4	14
17542	Environment and Infrastructure 4	14
17543	Urban Design and Management 4	14
17544	Law for Planners 2	14

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(Graduate Diploma of Planning)

**Semester 5**

17750	Planning 5	36
17751	Specific Issues in Planning	14
17755	Graduate Project (Stage 1)	42

**Semester 6**

17755	Graduate Project	92
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(Master of Planning)

**SYNOPSIS****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.

**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.

**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.

**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.

**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 planning, 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.

**17550 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 envi-

ronmental 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.

### **43710 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.

### **43720 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.

### **43730 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.

### **51710 SOCIAL AND POLITICAL ASPECTS 1**

1 semester hour

- (a) Social investigation. Constructing theories and testing 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 justice; an examination of democratic institutions, interest groups and public participation in planning.

## **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 the resources 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, finance, 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 organisation's 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.

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

<b>Semester 2</b>		<i>Hous/Week</i>
12516	Urban Sociology (UEM)	2
12525	Property Economics 2 (UEM)	2
12527	Property Finance (UEM)	1.5
12528	Legal Procedures 2 (UEM)	1.5
12549	Organisational Policy and Management	1
<b>Semester 3</b>		
12517	Property Management	1.5
12526	Urban Planning 1	2
12535	Property Economics 3	2
12538	Legal Procedures 3	1.5
<b>Semester 4</b>		
12536	Urban Planning 2	1.5
12542	Marketing (UEM)	1.5
12543	Property Development Management 2	2
12545	Property Economics 4	2
12550	Project **	4

\* Students may be exempted 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 3 and 4 subjects.

## SYNOPSIS

### 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 are 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 microeconomics 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.

## **GRADUATE DIPLOMA IN BUILDING SURVEYING & ASSESSMENT**

### **Aim**

The aim of this two-year part-time course is to enable students to lead, co-ordinate and/or participate in the Local Government Approvals Process as multi-skilled professional building surveyors/certifiers, and to assess buildings on behalf of owners as an extension of building surveying to private enterprise beyond that of certification. To this end, graduates of the course will be competent in the following roles:

- (i) Multi-skilled surveyors and facilitators within multi-disciplinary groups engaged in the assessment and approval of urban projects on behalf of the community, via Local Government.
- (ii) Professional building surveyors in private enterprise engaged in the certification of complexes for compliance with the relevant legislation.

- (iii) Professional building surveyors in private enterprise, who are technically competent to assess buildings on behalf of owners for reasons such as risk, safety, fitness of purpose and overall investment potential.
- (iv) Showing an understanding of the roles and practices of all specialist disciplines (environmental health surveyors, planners etc.), certifiers/checkers, design consultants, contractors, asset managers, and the like, and their integration in the regulation, control, assessment, maintenance, and certification for compliance of complexes, and their criticality both in the project process and the life cycle of the complex (or asset) especially with respect to hazardous and complex buildings/facilities.
- (v) In the preparation of codes and standards, and understanding the intent of the provisions of the relevant legislation.
- (vi) In the assessment of designs prepared in accordance with performance objectives.
- (vii) In presenting sound arguments which are cognizant that the social, legal, technical, safety, health and environmental issues have been taken and properly assessed and evaluated in any approval, study, assessment or certification.
- (viii) In satisfying the requirements of item (vii) within a cost effective framework.
- (ix) In presenting comprehensive evidence before a Board of Referees or a Court as a professional expert witness.

The graduates of this course are intended to make a major contribution to the industry as well as the community as more informed professionals returning to their own disciplines, as building surveyors at senior levels in local government, or as consultant building surveyors involved in certification or assessing building performance for owners, users and investors.

Applications are invited from the disciplines of building surveying, architecture, engineering, building, and valuation.

The major topic areas for the course are:

- (i) environmental health/building surveying practice
- (ii) building (construction, codes, regulations)
- (iii) environmental issues (including planning and development control)
- (iv) engineering
- (v) legal matters and procedures
- (vi) social issues and needs.

## COURSE OUTLINE

<b>Semester 1</b>	<i>Hours/Week</i>
Legal Procedures 1	1.5
Building Construction (E)	3.0} depending on
Engineering Fundamentals A (O)	1.5} discipline of
Engineering Fundamentals B (O)	1.5} applicant
Risk Management and Local Govt.	1.5
Codes and Standards 1	1.5

<b>Semester 2</b>	
Legal Procedures 2	1.5
Structural Performance (0)	1.5} depending on
Advanced Construction	1.5} discipline
Public Health and Safety	1.0
Fire Engineering 1	2.5

<b>Semester 3</b>	
Legal Procedures 3	1.5
Development Control Interface	2.5
Fire Engineering 2	2.5
Building Assessment	1.5

<b>Semester 4</b>	<i>Hours/Week</i>
Certification Process and Practice	3.0
Codes and Standards 2	2.0
Certification Project	3.0

(E) Undertaken by engineers

(O) Undertaken by others

(0) Structural Performance - engineers exempted.

## SYNOPSIS

### LEGAL PROCEDURES 1 (BS)

1.5 semester hours

Structure of legal system, health and building matters under the Local Govt. Act., relations of planning to development control issues in environmental law, occupational health and safety matters, associated acts and regulations.

### BUILDING CONSTRUCTION

3 semester hours

In depth study of building assembly, use of materials and details of residential, industrial and commercial building construction.



**ENGINEERING FUNDAMENTALS A**

1.5 semester hours

Forces, statics, properties of sections, loading and load paths, structural elements and frames, frame analysis, use of computer software in structural analysis, case studies.

**ENGINEERING FUNDAMENTALS B**

1.5 semester hours

Basic concepts and properties of fluids, liquids and gases, thermodynamic properties, theory of work and heat thermodynamics and heat transfer, rainfall runoff and flow through pipes.

**RISK MANAGEMENT AND LOCAL GOVERNMENT**

1.5 semester hours

Risk assessment techniques and regimes, quantitative methods, risk reduction and management, approvals and risk, decision-making in approvals process.

**CODES AND STANDARDS 1**

1.5 semester hours

Performance concepts, performance versus prescriptive provisions, appraisal methods, intent of codes and regulations, regulation making process, Building Code of Australia, engineered approach for existing buildings, discretion and liability.

**LEGAL PROCEDURES 2 (BS)**

1.5 semester hours

Powers and duties of building surveyors and councils, Local Government Acts, considerations in approvals, court system versus Referees, Land and Environment court practice and procedures, legal relationships between parties.

**STRUCTURAL PERFORMANCE**

1.5 semester hours

Structural behaviour under extreme loading and fire behaviour of materials at elevated temperatures, degradation of materials' properties and antique building materials, refurbishment issues and quality assurance.

**ADVANCED CONSTRUCTION**

1.5 semester hours

Building performance concepts, heat and thermal performance, acoustical performance, rifting, vibration, and human factors.

**PUBLIC HEALTH AND SAFETY**

1 semester hour

Environmental issues concerning noise, air, water and waste, waste management, construction safety issues, design of special public areas, internal environmental control, barrier free access, building safety, crowd behaviour and control.

**FIRE ENGINEERING 1**

2.5 semester hours

Chemistry and physics of fire, fire initiation and development, design fires, passive fire protection, smoke management, radiant heat assessment.

**LEGAL PROCEDURES 3 (BS)**

1.5 semester hours

Professional statutory responsibility, negligence, liability in contract and tort, statutory time limitations, integration of development, building and health matters, case studies.

**DEVELOPMENT CONTROL INTERFACE**

2.5 semester hours

Urban design issues, physical planning at precinct level, compatibility of building and development standards, other requirements of Local Government Acts, heritage and conservation issues, environmental issues, management of change.

**FIRE ENGINEERING 2**

2.5 semester hours

Occupant behaviour and egress in fires, detection and early warning systems, emergency lighting, active fire protection, maintenance of essential services, regulations, basic risk assessment.

**BUILDING ASSESSMENT**

1.5 semester hours

Building services, maintenance, technological change, diagnostic, security systems and assessment practice.

**CERTIFICATION PROCESS AND PRACTICE**

3 semester hours

Principles of/criteria for certification, qualifications, appropriate processes, management and co-ordination of professional groups, negotiation, accreditation, legal issues in practice, professional practice (code of ethics).

## CODES AND STANDARDS 2

2 semester hours

Drafting of building regulations, policies and codes, preparation of explanatory documents and commentaries, appropriate styles, case studies.

## CERTIFICATION PROJECT

3 semester hours

Certification process, certification of a major building.

## 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 program 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 program 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 students total program 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 students total program to not more than 11 hours per week.
8. In exceptional circumstances, course programs 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 (April 1988).

#### **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 pre-

pared to discuss his/her knowledge and experience 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 Heads 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 program. 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 1992 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 Textiles 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 introduced 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 includes 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 & Textiles 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 & TEXTILES DESIGN

Fashion and textiles 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 Textiles 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 textiles 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

	Semester Hours
<b>First Stage - Autumn Semester</b>	
82350 First Year Design 1	24
<b>Second Stage - Spring Semester</b>	
83350 First Year Design F & T 2 24	24
<b>Third Stage - Autumn Semester</b>	
83330 Design Project F & T 1	14
<b>Fourth Stage - Spring Semester</b>	
83440 Design Project F & T 2	14
<b>Fifth Stage - Autumn Semester</b>	
83515 F&T Industrial Project 1	4
83516 Fashion Design & Technology 5	6
83517 Textile Design & Technology 5	6
81510 Applied Marketing F & T	2
<b>Sixth Stage - Spring Semester</b>	
83615 F&T Industrial Project 2	6
83616 Fashion Design & Technology 6	6
83617 Textile Design & Technology 6	6
<b>Seventh Stage - Autumn Semester</b>	
81705 Professional Practice	2
83702 Fashion & Textile Technology	4
83706 Specialisation F & T	12
<b>Eighth Stage - Spring Semester</b>	
83810 Major Project - Fashion & Textile	24

## SYNOPSIS

### 81510 APPLIED MARKETING

1 Credit Point  
Autumn Semester Only

**Aim:** To acquaint the student with applied marketing theory specific to the fashion industry. A series of lectures and seminars/tutorials will cover market niche, consumables marketing and promotion. Research topics include sample interviewing of established companies and segmentation of the Fashion and Textiles market.

### 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.

### 82350/83350 FIRST YEAR DESIGN

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

### 83330 DESIGN PROJECT F&T 1

7 Credit Points

The problem-based approach to learning and teaching is continued in Design Project F&T 1. Projects are supported by classes and workshops in the technologies of the fashion and textiles industries, construction of garments, design of garments and accessories, and design of printed, knitted and woven fabrics.

Incorporated into the projects are contextual studies focusing on social, environmental, technological, historical and economic aspects of design activity.

### 83440 DESIGN PROJECT F&T 2

7 Credit Points

The problem-based approach to learning and teaching is maintained in Design Project F&T 2. Projects are supported by classes and workshops and cover, at advanced levels, the disciplines and activities of Design Project

### 83515 FASHION & TEXTILE INDUSTRIAL PROJECTS 1

2 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

	<b>Semester Hours</b>
<b>First Stage - Autumn Semester</b>	
82350 First Year Design 1	24
<b>Second Stage - Spring Semester</b>	
84350 First Year Design Ind 2	24

<b>Third Stage - Autumn Semester</b>	
84330 Design Project Ind 1	14

<b>Fourth Stage - Spring Semester</b>	
84440 Design Project Ind 2	14

<b>Fifth Stage - Autumn Semester</b>	
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

<b>Sixth Stage - Spring Semester</b>	
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

<b>Seventh Stage - Autumn Semester</b>	
81705 Professional Practice	2
84704 Research Project - Industrial	4
84705 Manufacturing Economics	2
84707 Industrial Design 7	8
84708 Presentation Workshop	2

<b>Eighth Stage - Spring Semester</b>	
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.

**82350/84350 FIRST YEAR DESIGN**

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.

**84330 DESIGN PROJECT IND. 1**

7 Credit Points

The problem-based approach to learning and teaching is maintained in Design Project Ind. 1. Projects are supported by classes and workshops in manufacturing science and technologies, expressive and communication techniques, and design.

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.

**84440 DESIGN PROJECT IND. 2**

7 Credit Points

The problem-based approach to learning and teaching is continued in Design Project Ind. 2. Projects are supported by classes and workshops and cover, at advanced levels, the disciplines and activities of Design Project Ind.1.

**84504 MANUFACTURING TECHNOLOGY 4**

1 Credit Point

*Prerequisite: 84405 Manufacturing Technology 3*  
*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 services, architectural and presentation drawing and modelmaking, language expressions, 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 administrations 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

	Semester Hours
<b>First Stage - Autumn Semester</b>	
82350 First Year Design 1	24
<b>Second Stage - Spring Semester</b>	
86350 First Year Design Int 2	24
<b>Third Stage - Autumn Semester</b>	
86330 Design Project Int 1	14
<b>Fourth Stage - Spring Semester</b>	
86440 Design Project Int 2	14
<b>Fifth Stage - Autumn Semester</b>	
86521 Interior Design Theory 3	2
86522 Interior Design Project 3	6
86526 Technology - Interiors 4	6
86527 Interior Conservation	2
86528 Interior Furnishings & Fittings 1	2
<b>Sixth Stage - Spring Semester</b>	
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
<b>Seventh Stage - Autumn Semester</b>	
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
<b>Eighth Stage - Spring Semester</b>	
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.

### 82350/86350 FIRST YEAR DESIGN

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 modelmaking, human factors, language expression, and computing.

### 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.

### 86330 DESIGN PROJECT INT. 1

7 Credit Points

The problem-based approach to learning and teaching is maintained in Design Project Int. 1. Projects are supported by classes and workshops in the technologies of building construction and building services and the manufacture of building materials and components, furniture and furnishings, the essential communication skills of architecture and presentation drawing and modelmaking, and the design of interiors including the design of furnishings and furniture.

### 86440 DESIGN PROJECT INT. 2

7 Credit Points

The problem-based approach to learning and teaching is continued in Design Project Int. 2. Projects are supported by classes and workshops and cover, at advanced levels, the disciplines and activities of Design Project Int.1.

### 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 the creation, processing and production of messages presented in a visual form.

Designers working in this area are employed to use their creativity and knowledge to determine the optimum effectiveness of the message which is communicated visually to a selected group of people. Combinations of words and images are produced freehand, or by the use of drafting conventions, or with the assistance of computer, photographic, video, film and typesetting equipment. Designed messages are reproduced or transmitted to the end-user/viewer through print, video, television, and through interactive computer technologies.

### First Year Studies

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

In the first semester, students from all the design courses work in mixed groups, undertaking common design projects which are aimed at examining basic elements of design including place, space, colour, texture, line, shape, form, identity. Each project is supported by a series of lectures devised to offer a theoretical framework for project work. Workshops in orthographic

drawing, objective drawing, and 3D modelmaking complement and assist activities in the areas of research, processing, communication and presentation of final solutions to design briefs.

In the second semester of first year, students undertake projects specific to their chosen major study. In Visual Communication, students investigate the elements of visual language and increase their ability to think and process ideas visually. Supporting lectures are continued, and workshops in drawing, word and image, visual investigation, typography, and creative thinking offer further opportunities to expand awareness and communication ability.

### 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, and interactive computer technologies.

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

	Semester Hours
<b>First Stage - Autumn Semester</b>	
82350 First Year Design 1	24
<b>Second Stage - Spring Semester</b>	
87350 First Year Design VC 2	24
<b>Third Stage - Autumn Semester</b>	
87330 Design Project VC 1	14
<b>Fourth Stage - Spring Semester</b>	
87440 Design Project VC 2	14
<b>Fifth Stage - Autumn Semester</b>	
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	6
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	6
87630	Research Project 1	4

\*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
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## SYNOPSES

### 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.

### 82350/87350 FIRST YEAR DESIGN

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.

### 87330 DESIGN PROJECT V.C. 1

7 Credit Points

The problem-based approach to learning and teaching is maintained in Design Project V.C. 1. Workshops in print, photography, video, film and computing offer the primary means of processing and solving the communication problems set as projects over the year. Lectures continue to support the theme of the projects and assist in the examination of additional theoretical aspects of the media which are being introduced through projects and supporting workshops.

### 87440 DESIGN PROJECT V.C. 2

7 Credit Points

The problem-based approach to learning and teaching is continued in Design Project V.C. 2. Projects are supported by classes and workshops and cover, at advanced levels, the disciplines and activities of Design Project V.C.1.

### 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**

3 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**

3 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 four 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.

The subject numbers and credit point values for General Studies subjects as published do not apply to students enrolling in second year in 1992.

Details of General Studies subjects to be offered by the School of Design in 1992 will be provided at the time of enrolment. **When enrolling, students should check carefully the 1992 offerings and subject numbers as detailed on the separate overlays provided at that time.**

## SYNOPSSES

### 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.

### 51229 SOCIAL THEORY AND AUSTRALIAN SOCIETY

1 Credit Point

See 51209

### 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

### 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.

### 59634 GENDER AND TECHNOLOGY 1

1 Credit Point

**Aim:** This unit asks how issues of gender can be investigated in the area of technology studies. It considers the construction of masculinity and femininity in relation to technology, and approaches the question from three directions: Technologies of the Body; Feminist Critiques of 'Science and Technology'; and Union and Workplace Politics.

### 59708 SCREEN STUDIES

1 Credit Point

**Aim:** Through screenings, research, readings and class discussion, students will learn to report on currently controversial or topical or speculative aspects of the film industry.

### 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.

**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.

**80039 ABORIGINAL ART & CULTURE 1**

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.

**80040 ABORIGINAL ART & CULTURE 2**

1 Credit Point

Aim: This course introduces students to the Aboriginal history of 'Australia' and to the Aboriginal analysis of the impact of white invasion and white society on Aboriginal nations. The course will develop these analyses around 'issues' relating to dispossession such as Land Rights claims, legal control and force, political control and political mobilisation, health issues, employment issues, education, art, literature, film, etc.

**80045 VISUAL PERCEPTION**

1 Credit Point

Aim: To provide students with an exploration of how all sorts of apparently practical aspects of life, from food to

dress, from illness to sexuality, even birth and death, are represented in our minds, our language and our imagery as systems of symbols, often centering around our sense of identity and our relations with others. The course will begin with a short discussion of symbolism in the psychoanalytic sense (Freud, Jung) and metaphor in the literary sense, but will have wider scope. A series of lectures/discussions/presentations will develop themes and topics. Students will be free to negotiate topics that interest them that can be classified as part of the "symbolic order". Material discussed will include the work of Susan Sontag, Alison Lurie, Roland Barthes and the linguist Gordon Lakoff.

## MINOR STUDIES

In order to graduate, students who have completed first year are required to complete a strand of Minor Studies over four 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, design and sustainable human futures, furniture design and design for theatre.

Details of Minor Studies subjects to be offered in 1992 will be provided to students at the time of enrolment. **When enrolling, students should check carefully the 1992 offerings and subject numbers as detailed on the separate overlays provided at that time.**

## SYNOPSES

### 88301 COMPUTERS AND DESIGN 1

3 Credit Points

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

3 Credit Points

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

3 Credit Points

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

3 Credit Points

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

3 Credit Points

Aim: To give students a level of technical and design ability within the areas of knitted, woven and printed textiles which will produce an understanding of the social and environmental responsibilities of a professional designer. A series of lectures, seminars, workshops and tasks are undertaken, and are concerned with the following:

1. Preparation of constructed and printed textile designs;
2. Preparation of transparencies and silk screens;
3. Fabric and fibre appreciation;
4. History of textiles.



**88308 FILM & VIDEO 1**

3 Credit Points

**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**

3 Credit Points

**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**

3 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**

3 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**

3 Credit Points

**Aim:** To provide students with a further understanding of the application of design for printed textiles in industry and society.

The course will contain a series of lectures, tutorials, demonstrations and tasks concerning:

1. Preparation and production of a printed design into a sample length of fabric;
2. Printing of a multi coloured design;
3. Carpet and rug design;
4. Use of appropriate fabric/fibre/yarn into given design contexts.

Site visits to textile industries and commercial enterprises support the study programme.

**88408 FILM AND VIDEO 2**

See 88308

**88409 TRANSPORTATION DESIGN 2**

3 Credit Points

**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**

3 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**

See 88325

**88501 COMPUTERS AND DESIGN 3**  
2 Credit Points

See 88301

**88502 ENVIRONMENTAL  
COMMUNICATIONS 3**  
2 Credit Points

See 88302

**88503 FILM AND VIDEO 3**  
2 Credit Points

See 88308

**88504 ILLUSTRATION 3**  
2 Credit Points

See 88304

**88505 PHOTOGRAPHY 3**  
2 Credit Points

See 88305

**88506 TEXTILE DESIGN 3**  
2 Credit Points

Aim: To further develop students' understanding of current industrial design methods, and to provide the opportunity for exploring advanced techniques in the areas of knitted, woven or printed textiles.

Students may specialise in the study and design of textiles for upholstery, furnishings, household textiles, corporate identity and/or concept design or history of textiles.

**88508 PHOTOGRAPHY (HOLOGRAPHY) 3**  
2 Credit Points

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**  
2 Credit Points

See 88309/409

**88601 COMPUTERS AND DESIGN 4**  
2 Credit Points

See 88301

**88602 ENVIRONMENTAL  
COMMUNICATIONS 4**  
2 Credit Points

See 88302

**88603 FILM AND VIDEO 4**  
2 Credit Points

See 88308

**88604 ILLUSTRATION 4**  
2 Credit Points

See 88304

**88605 PHOTOGRAPHY 4**  
2 Credit Points

See 88305

**88606 TEXTILE DESIGN 4**

2 Credit Points

**Aim:** To consolidate students' knowledge of current industrial design methods and design ability within a specialised area of textiles. Students undertake a major design project which concentrates, through research and practical application, on the role and responsibilities of the professional textile designer in society and the environment in general.

**88608 PHOTOGRAPHY (HOLOGRAPHY) 4**

2 Credit Points

**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**

2 Credit Points

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 94 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 8 credit points from an approved strand of Minor Studies subjects including two credit points at each of 300, 400, 500 and 600 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 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 were 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.

Procedures for appeal against assessment grades are published in UTS document which is available from the School Office.

## GRADUATE COURSES

### GRADUATE CERTIFICATE IN DESIGN AND TECHNOLOGY

The Graduate Certificate in Design and Technology is a one-year, part-time, full-fee paying course.

This course is a response to the needs of school teachers who are undertaking the new curricula in the areas of Design & Technology for classes in Years 7 to 10. The course offers a broad awareness of design and technology in a social and environmental context, as well as design knowledge and skills essential for school teachers whose previous training has not equipped them for the introduction of design methodologies, processes and practical experiences, which are integral to the new curricula.

#### Qualifications for Entry

To qualify for entry to the Graduate Certificate in Design and Technology an applicant shall:

1. Possess a Bachelor's Degree, Diploma or equivalent qualification in an appropriate area,
2. Have relevant teaching experience, or
3. 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 one year of part-time study.

To qualify for the Graduate Certificate in Design and Technology, a student must achieve 12 credit points in not less than one semester of part time study. Each Subject has a value of two credit points.

8 credit points must be achieved from the core subjects; the remaining 4 credit points can be achieved from elective postgraduate subjects drawn from the following areas:

- \* User Studies - Subjects in the User Studies area provide knowledge of the means by which the needs, wants and preferences of the users of objects, environments and messages are identified and assessed.
- \* Technology Studies - Subjects in the Technology Studies area provide knowledge of the established and emerging technologies with which designers must deal.

- \* 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
- \* General Studies - Subjects in the General Studies area provide knowledge of relevant aspects of history and contemporary culture.

In consultation with the Head of the Unit for Postgraduate Design Studies Unit students plans a programme of study suited to their needs, bearing in mind their prior study and work experience.

#### CORE STUDIES

##### Autumn Semester

	<i>Semester Hours</i>
89919* Design & Technology	4
89912* Design Case Studie	4

##### Spring Semester

89104* Design & Society	4
89012* Design Case Studies	4

#### USER STUDIES

82009 Human Factors and Design	4
82901 Psychology of Design	4

#### TECHNOLOGY STUDIES

82015 Appropriate Technology	4
82903 Technological Change	4

#### MANAGEMENT STUDIES

81020 Management Techniques & Design	4
81920 Marketing & Design	4

#### GENERAL STUDIES

81022 Desk Top Publishing	4
81025 Design History	4
81922 Computer Aided Design	4
81923 Introduction to Design Computing	4
82016 Graphic Visualisation	4
82017 2D & 3D Communication	4
82914 Photography and Video	4

\* Core Subject

\*\* Alternate core subjects

1 credit point equals 2 semester hours

The Graduate Certificate course is run on a full-fee paying basis and details of the fees can be obtained by contacting the Postgraduate Unit of the School of Design

## GRADUATE DIPLOMA IN DESIGN STUDIES

The Graduate Diploma in Design Studies is a one-year full-time, or two-year part-time, post-diploma/degree course.

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. In consequence, 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 an 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, or one year of full time study.

To qualify for the Graduate Diploma in Design Studies a student must achieve 24 credit points in not fewer than four semesters of study. 10 credit points must be achieved from the core subjects. The remaining 14 credit points must be achieved from elective subjects drawn from the areas of:

- \* User Studies - Subjects in the User Studies area provide knowledge of the means by which the needs, wants and preferences of the users of objects, environments and messages are identified and assessed.
- \* Technology Studies - Subjects in the Technology Studies area provide knowledge of the established and emerging technologies with which designers must deal.
- \* 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
- \* Methodology Studies - Subjects in the methodology area provide knowledge of the means by which

design decisions are made by individuals and groups.

- \* 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.

Students may be granted exemption from, and credit for, subjects which have been studied previously at postgraduate level. The maximum extent of such exemptions and credits is 12 credit points.

In consultation with the Head of Postgraduate Design Studies Unit each student plans a program of study suited to their needs, bearing in mind their prior study and work experience.

### CORE STUDIES *Semester Hours*

#### Autumn Semester

81920*	Marketing and Design (&/or 81020)	4
89912*	Design Case Studies	4
89914*	Design Practice	4

#### Spring Semester

81020*	Management Techniques & Design (&/or 81920)	4
89012*	Design Practice	4
89013*	Design Case Studies	4

### USER STUDIES

82009	Human Factors and Design	4
82901	Psychology of Design	4
82902	Sociology of Design	4

### TECHNOLOGY STUDIES

81021	Communication Technology	4
82015	Appropriate Technology	4
82903	Technological Change	4

### MANAGEMENT STUDIES

81020**	Management Techniques & Design	4
81920**	Marketing & Design	4
81921	Innovation, Management & Design	4

### METHODOLOGY STUDIES

82905	Research Methods	4
82912	Design Seminar	4



<b>GENERAL STUDIES</b>		<i>Semester Hours</i>
81022	Desk Top Publishing	4
81024	Computer Graphics 1	4
81025	Design History	4
81030	3D Computer Animation 2	4
81840	Advanced Computer Aided Design	4
81922	Computer Aided Design	4
81923	Introduction to Design Computing	4
81924	Computer Graphics 2	4
81925	3D Computer Animation 1	4
82014	Special Studies 2	4
82913	Special Studies 1	4
82016	Graphic Visualisation	4
82017	2D & 3D Communication	4
82914	Photography and Video	4

\* Core Subject

\*\* Alternate core subjects

Semester hours are a measurement of difficulty not contact time. 1 credit point equals 2 semester hours

## **MASTER OF DESIGN (by coursework)**

The Master of Design is a two year full-time or three year part-time postgraduate course.

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 program. 14 credit points must be achieved from the core coursework subjects The remaining points must be achieved from an approved programme of elective coursework subjects from the areas:

\* User Studies - Subjects in the User Studies area provide knowledge of the means by which the needs, wants and preferences of the users of objects, environments and messages are identified and assessed.

\* Technology Studies - Subjects in the Technology Studies area provide knowledge of the established and emerging technologies with which designers must deal.

\* 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.

\* Methodology Studies - Subjects in the methodology area provide knowledge of the means by which design decisions are made by individuals and groups.

\* 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.

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.

<b>CORE STUDIES</b>		<i>Semester Hours</i>
<b>Autumn Semester</b>		
81920*	Marketing and Design (or 81020)	4
82901*	Psychology of Design	4
82903*	Technological Change	4
82905*	Research Methods	4
82912*	Design Seminar	4

<b>Spring Semester</b>	<i>Semester Hours</i>
81020* Management Techniques & Design (or 81920)	4
82004* Design Decision Making	4
82013* Research Seminar	4
89917* Project (part time)	12
89918* Project (full time)	24
 <b>USER STUDIES</b>	
82009 Human Factors and Design	4
82901* Psychology of Design	4
82902 Sociology of Design	4
 <b>TECHNOLOGY STUDIES</b>	
81021 Communication Technology	4
82015* Appropriate Technology	4
82903* Technological Change	4
 <b>MANAGEMENT STUDIES</b>	
81020** Management Techniques & Design	4
81920** Marketing & Design	4
81921 Innovation, Management & Design	4
 <b>METHODOLOGY STUDIES</b>	
82004* Design Decision Making	4
82013* Research Seminar	4
82905* Research Methods	4
82912* Design Seminar	4
 <b>GENERAL STUDIES</b>	
81022 Desk Top Publishing	4
81024 Computer Graphics 1	4
81025 Design History	4
81030 3D Computer Animation 2	4
81840 Advanced Computer Aided Design	4
81922 Computer Aided Design	4
81923 Introduction to Design Computing	4
81924 Computer Graphics 2	4
81925 3D Computer Animation 1	4
82014 Special Studies 2	4
82913 Special Studies 1	4

\* Core Subject

\*\* Alternate core subjects

Elective subjects may be offered in either Spring or Autumn Semesters according to timetabling and demand.

Semester hours are a measurement of difficulty not contact time. 1 credit point equals 2 semester hours.

## **MASTER OF DESIGN (by thesis)**

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 students will be required to complete successfully, two coursework subjects, and to complete a thesis which is judged by its examiners to be a distinct and substantial contribution to knowledge in a design related area.

81820\* Thesis (Design) (full-time)

81830\* Thesis (Design) (part-time)

82013\* Research Seminar

82905\* Research Methods

## **DOCTOR OF PHILOSOPHY PhD Programme**

The University of Technology, offers a Doctor of Philosophy programme to graduates of design who have established their capacity to study at a high level of advanced study. Candidates are encouraged to undertake the coursework subjects Research Methods and Research Seminar. The programme is normally of a minimum of three years duration part time and two years on a full time basis. Supervision of candidates is undertaken by appropriate academic staff appointed by the Faculty.

82013 Research Seminar

82905 Research Methods

## **SYNOPSIS OF POSTGRADUATE SUBJECTS**

### **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; program evaluation and review techniques; critical path monitoring; organisational development; personnel recruitment and staffing structures; organisational models; union and labour relations.

### **81022 DESK TOP PUBLISHING**

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 data bases, spread sheets, desktop publishing and graphics.

### **81024 COMPUTER GRAPHICS 1**

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.

### **81030 3D COMPUTER ANIMATION 2**

Aim: To develop and expand the basic knowledge of both the theory and operation of computer animation as learnt in 3D Computer Animation 1, refining the different types of computer graphics in animation. The course includes the creation and manipulation of 3D images. Topics covered will include advanced computer animation systems and theory, various other animation software applications as well as video production techniques.

### **81709 ADVANCED COMPUTER AIDED DESIGN**

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 advanced development in CAD programmes and computer graphics and projects giving direct experience of complex systems and their varied applications.

### **81820/81830 THESIS (DESIGN)**

These subjects provide an opportunity to achieve a Masters Degree by research. To qualify for the Master of Design (by thesis) degree, a student will be required to undertake an approved, supervised programme of investigation, review, criticism or design, leading to the completion of a thesis. The thesis should make a distinct and original contribution to a design related area. The applicant will also be required to complete two coursework subjects, Research Methods and Research Seminar.

### **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, 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 DESIGN COMPUTING**

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 COMPUTER GRAPHICS 2**

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.

**81925 3D COMPUTER ANIMATION 1**

Aim: To equip students with the basic knowledge of both the theory and operation of computer animation and the different types of computer graphics. Topics covered will include, computer animation systems, animation software, animation production and dropping animation to videotape.

**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 devel-

oping 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 with an 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**

To provide an opportunity for post graduate students to continue to pursue, as individuals, topics of particular interest or concern within any field of design. The subject provides the opportunity for group discussion on a range of current design issues as well as programmes tailored to the needs of individual students or groups of students. Assessment is by participation, a semester paper and a presentation based on the semester paper to the class.

**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.

**82016 GRAPHIC VISUALISATION**

This is an introductory level subject to enable participants with other disciplinary backgrounds and knowledge to expand their awareness and practical ability to generate ideas and communicate through 'hands on' experience. The subject will include methods of graphic investigation, application and reproduction.

**82017 2D & 3D COMMUNICATION**

This is an introductory level subject to enable participants with other disciplinary knowledge to expand their

awareness and practical ability to generate ideas and communicate through 'hands on' experience. The subject introduces methods and conventions to explain design intentions through three dimensional model forms and two dimensional drafting techniques and processes.

### **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 behaviour in small scale environments such as workplaces, and domestic situations.
- d) human behaviour in large scale environments such as towns and cities.

### **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 weakness 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, forecasting and report writing. 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 Master's projects.

### **82913 SPECIAL STUDIES 1**

To provide an opportunity for post graduate students to pursue, as individuals, topics of particular interest or concern within any field of design. The subject provides the opportunity for group discussion on a range of current design issues as well as programmes tailored to the needs of individual students or groups of students. Assessment is by participation, a semester paper and a presentation based on the semester paper to the class.

### **82914 PHOTOGRAPHY AND VIDEO**

This elective subject introduces the students to the use of photography and video for the documentation of 'authentic' information and communication of ideas. Students will gain basic knowledge in the functions and handling of equipment and the use of specialised facilities as well as initial experience in relevant techniques, approaches and applications.

### **89012 DESIGN PRACTICE (SPRING)**

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 and individual research and design project.

### **89013 DESIGN CASE STUDIES**

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 focussing 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.

### **89014 DESIGN & SOCIETY**

This subject supports the overall course aims by examining the role of design in society as well as in the educative process. It will develop issues raised in Design & Technology and examine design practice and user studies as well as the social and environmental factors that are affected by design decisions.

### **89914 DESIGN PRACTICE (AUTUMN)**

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. Students undertake two individual research and design projects.

### **89917/89918 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.

### **89919 DESIGN & TECHNOLOGY**

This subject aims to provide the knowledge and skills that are integral to the understanding of the processes and practice of design. The subject content will cover design elements, contextual studies, design methodology and communication.

## **COURSE RULES**

### **GRADUATE CERTIFICATE IN DESIGN AND TECHNOLOGY**

The Graduate Certificate in Design and Technology is a full fee paying course.

These rules are to be read in conjunction with the rules for Graduate Certificate and 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 Twelve credit points made up of -

- 1.1 Eight credit points from required core subjects;
- 1.2 Twelve 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 certificate 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 nine.

#### **5. Maximum Credit Points**

The maximum number of credit points for which a student can be enrolled in a semester is twelve. This maximum may be varied with the approval School Board.

The following regulations (#6 to #8.4) apply to Graduate Certificate candidates as for the Graduate Diploma candidates

## **GRADUATE DIPLOMA IN DESIGN STUDIES**

These rules are to be read in conjunction with the rules, including 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 Ten credit points from required core subjects;
- 1.2 Fourteen 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 nine.

## 5. Maximum Credit Points

The maximum number of credit points for which a student can be enrolled in a semester is fifteen. This maximum may be varied with the approval Faculty 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. 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 Faculty Board.

## 8. Ownership of Student Work

Students as part of their course requirements produce items of work which are the subject of assessment.

8.1 All property rights in such items of work are vested in the student who authored the work, subject to the limitations on ownership and use set out in paras 8.3 and 8.4 below. Accordingly the student will own outright the work itself together with all intangible rights which might apply to the exploitation of that work.

8.2 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.

8.3 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.

8.4 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 (by coursework)

These rules are to be read in conjunction with the rules for Masters Degrees by coursework, of the University of Technology, Sydney.

### 1. Admission Requirements

To qualify for admission to the Master of Design (by coursework) course applicants shall have completed two years experience as a practising designer in addition to meeting the University's general eligibility requirements.

## 2. 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 thirty six credit points made up of:

- 2.1 Fourteen credit points from required core subjects;
- 2.2 Ten credit points from elective subjects;
- 2.3 Twelve 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.

## 3. Assessment Period

The assessment period for the School of Design is one semester.

## 4. 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.

## 5. Minimum Credit Points

The minimum number of credit points for which a full time student can be enrolled in a semester is nine.

## 6. Maximum Credit Points

The maximum number of credit points for which a student can be enrolled in a semester is fifteen. This maximum may be varied with the approval of the Faculty Board.

## 7. Special Leave

- 7.1 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.
- 7.2 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.

- 7.3 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.

## 8. Assessment Policy

Student work is assessed in accordance with the assessment policy adopted and issued by the Faculty Board.

## 9. Ownership of Student Work

Students as part of their course requirements produce items of work which are the subject of assessment.

- 9.1 All property rights in such items of work are vested in the student who authored the work, subject to the limitation on ownership and use set out in paras 9.3 and 9.4 below. Accordingly, the student will own outright the work itself together with all intangible rights which might apply to the exploitation of that work.
- 9.2 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.
- 9.3 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.
- 9.4 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.



## Record of Project Work Appendix A

### 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 Faculty Board.

#### 2. Volume

Where the format of the record is a bound volume

- 2.1 The volume shall be compiled in accordance with the guide-lines of the Postgraduate Unit as written by the Head of the Unit, David Denne
- 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, tablets 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-

- (i) Folded so as to read as a right-hand page when opened.
- (ii) 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 the 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

2.12.1 90mm from the bottom and across, the degree and year of submission;

2.12.2 Evenly spaced between the statement in (2.12.1) and the top of the spine, the initials and surname of the author. No other lettering or decoration shall appear on the spine; or

2.12.3 Where the spine of the thesis is too narrow 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 Dean and 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 Dean and 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 contains confidential information which the candidate 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 Dean and Head of School has authorised such disclosure.

## COURSE ADVISORY COMMITTEES

### FASHION AND TEXTILES DESIGN

#### Ex-Officio Members

*Head, School of Design*

Vacant

*Dean, Faculty of Design, Architecture & Building*

A G Caban

*Head, Department of Fashion and Textile Design*

V. Horridge

#### Other Members

J. Medd, Head, Fashion Department, RMIT

I. Lin, Eastern Industries Pty Ltd

C. Stone, Textile Industries

K. Tuckwell, Sport Fashion Pty Ltd

### INDUSTRIAL DESIGN

#### Ex-Officio Members

*Head, School of Design*

Vacant

*Dean, Faculty of Design, Architecture & Building*

A G Caban

*Head, Department of Industrial Design*

J. A. Montague

#### Other Members

R. Kynaston, Abcon Services Pty Ltd

R. McDermott, McDermott Wark Pty Ltd

V. Popovic, Head, Industrial Design, QUT

S. Richardson, Design Edge

### INTERIOR DESIGN

#### Ex-Officio Members

*Head, School of Design*

Vacant

*Dean, Faculty of Design, Architecture & Building*

A G Caban

*Head, Department of Interior Design*

T. Laurence

#### Other Members

J. Andrews, Interior Design, RMIT

D. Katon, Neil Burley Design

D. Lorenz, Powerhouse Museum

D. Luxton, Public Works Department

A. Trengove, Inarc Design (NSW) Pty Ltd

K. White, Travis Partners

### VISUAL COMMUNICATION

#### Ex-Officio Members

*Head, School of Design*

Vacant

*Dean, Faculty of Design, Architecture & Building*

A G Caban

*Head, Department of Visual Communication*

C. McGregor

#### Other Members

A. Deveson, Writer and Filmmaker

R. Francis, Swinburne Institute of Technology

S. Pemberton, ISIS Design

R. Wakefield, Horniak & Canny

## THE STUDENTS' ASSOCIATION (SA)

The Students' Association (SA) is the elected representative body of students at the UTS - it is an organisation run by students for students. All students become members of the Students' Association upon enrolment. It is the only body in the university which can legitimately claim to truly represent the concerns, issues and problems students face on a day-to-day basis whilst at this university. All students have the right to stand for election of the SA and to vote in the annual elections. There are twenty three general representatives on the Council that makes policy for the Students' Association. The SA also has specialised portfolios and office bearers to deal with a range of issues; the environment, women, students with special needs, gay and lesbian rights, overseas students and postgraduates.

The Students' Association maintains close links with student organisations from other universities. Its political role is to defend and extend educational standards and conditions for students both within the University and the tertiary sector as a whole. Campus Committees deal with campus specific issues (St Leonards/Gore Hill, Balmain, Kuring-gai, Haymarket and Broadway). This has proved to be the most effective and equitable means of ensuring that all campuses are adequately represented in the make-up of the SA. At this level, Campus convenors carry out the directions of campus committees, which are also elected annually.

In general the SA plays a representative and advocacy role on behalf of students. The SA acts as the voice of the student body. As part of this function it produces a fortnightly newspaper, *Vertigo*, and a weekly radio show on 2SER *Student Voice*. It liaises closely with the University Union, which provides services to students (eg the cafeteria, reading and leisure areas) and the Student Services Unit, which is funded by the university to provide welfare advice and counselling loan assistance and medical services. The SA also employs specialised education staff to assist in enquiries about Austudy, HECS, appeals against exclusion and assessment grades and any other problems that students encounter at UTS. The SA has lots to offer all students - so get down to your SA and get active!

### Locations and Services

#### *City Campus (02) 330 1155*

The main office of the SA is located on the City Campus, Broadway on Level 3A of the Tower Building (near the bar and cafeteria) and offers the following services:

- General Student representatives
- Elected office bearers - Womens' officers
  - Overseas students' officers
  - Special needs officers
  - Gay and lesbian officers
  - Environment officer
  - Postgraduate officer
- Specialist education, research and welfare staff
- General student enquiries
- Academic coaching service
- Photocopying
- Funding of PERC Clubs

#### *Broadway Resource Centre (02) 330 1161*

Also located on Level 3A and adjacent to the Union Shop, its services include:

- Photocopying
- Secondhand books
- Use of typewriters and computers
- Book binding and paper guillotining

#### *Haymarket Resource Centre (02) 330 3409*

This is located in Room B110 and its services include:

- Photocopying
- Secondhand books
- Typing service

#### *Design School Student Centre (02) 330 2958*

This is located on the Balmain Campus, Mansfield Street, Balmain and is open Tuesday to Friday and offers:

- Photocopying
- Secondhand equipment sales
- Computer facilities

#### *Gore Hill Resource Centre (02) 330 4040*

This is located in Room 1/18 in the Dunbar Building and its services include:

- Photocopying
- Secondhand books
- Computer facilities

#### *Kuring-gai Campus (02) 330 5237*

Located next to State Bank, the services offered include:

- General and campus representatives
- Specialist education, research and welfare staff
- General student enquiries
- Resource Centre

## PRINCIPAL DATES FOR 1992

### AUTUMN SEMESTER

#### January

- 13 Release of HSC results
- 20 Closing date for changes of preference of 1991 NSW HSC applicants (4.30pm)
- 26 Australia Day
- 27 Public School Holidays end
- 29-31 Enrolment of continuing students at City Campus

#### February

- 3-21 Enrolment of continuing and new students at City Campus
- 17-28 Enrolment at Kuring-gai Campus
- 25-27 University Orientation Day at City Campus
- 28 University Orientation Day at Kuring-gai Campus

#### March

- 2 Classes commence
- 13 Last day to enrol in a course or add subjects
- 27 Last day to apply for leave of absence
- 31 HECS Census Date

#### April

- 10 Last day to drop a subject without academic penalty
- 10 Last day to withdraw from course without academic penalty
- 13 Public School Holidays commence
- 17 Good Friday
- 20 Easter Monday
- 20-24 Vice-Chancellors' Week (non-teaching)/ Graduation period
- 24 Public School Holidays end
- 25 Anzac Day

#### May

- 29 Closing day for applications for Spring Semester

#### June

- 15 Formal examinations commence

### SPRING SEMESTER

#### July

- 3 End of formal examinations
- 6 Public School Holidays commence
- 6-10 Vice-Chancellors' Week (non-teaching)
- 17 End of Public School Holidays
- 27-31 Enrolment of new students

#### August

- 3 Classes commence
- 14 Last day to enrol in a course or add subjects
- 28 Last day to apply for leave of absence
- 31 HECS Census Date

#### September

- 11 Last day to drop a subject without academic penalty
- 11 Last day to withdraw from a course without academic penalty
- 28 Public School Holidays commence
- 30 Undergraduate applications close for admission in 1992
- 28- Vice-Chancellors' Week (non-teaching)/
- 2 Oct Graduation period

#### October

- 9 End of Public School Holidays

#### November

- 16 Formal examinations commence

#### December

- 4 End of formal examinations
- 18 Public School Holidays commence

# 1992 Academic Year Patterns

Jan					Feb					Mar					Apr					May					Jun					Jul					Aug					Sep					Oct					Nov					Dec				
6	13	20	27	3	10	17	24	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28								
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52									
School of Design								X	X	X	X	X	X	X	T	M	X	X	X	X	X	X	X	A	A	V					X	X	X	X	X	X	X	T	M	X	X	X	X	X	X	X	A	A											
Schools of Architecture and Building Studies									B	P	R							B	P	R											B	R																											
								X	X	X	X	X	X	X	T	T	X	X	X	X	X	E	E	E	V				X	X	X	X	X	X	T	T	X	X	X	X	X	X	E	E	E														



NSW school holidays



Vice-Chancellor's weeks (non-teaching)

X - Teaching weeks

T - Tutorial weeks

M - Mid semester breaks

A - Assessment

V - Vice-Chancellor's weeks

B - Built Environment

P - Planning

R - Project Management

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