

Course Code:**1. Course Title:**

Architectural Technology Design in Detail 5

2. Academic Session:

2011/12

3. Level:

SCQF 11

4. Credits:

30

5. Lead School/Board of Studies:

Mackintosh School of Architecture

6. Course Contact:

Dr Tim Sharpe

7. Course Aims:

The course enables students to demonstrate their awareness and knowledge of strategies for construction, structure and environmental design and to develop an in-depth understanding of an element of technology that contributes to the development of their final design thesis.

8. Intended Learning Outcomes of Course:

At the end of the course each student should have the ability to demonstrate and/or work with:

Category 1 : Knowledge and Understanding

Knowledge that covers and integrates most, if not all, of the main subject area of the discipline of architecture – including their features, boundaries, terminology and conventions.

A critical understanding of the intellectual and aesthetic content of selected buildings to substantiate architectural judgments.

Be a coherent expression of a critical approach to making architecture at this moment in time.

An ability to pursue an independent line of enquiry.

Research, critical and detailed evaluation of the briefing and performance applied to the self-

directed design project.

Category 2: Practice – Applied Knowledge and Understanding

Ability to plan and compose buildings that are self-chosen and directed, and demonstrate wider range of investigation and more detailed resolution.

Explicit strategies for structural design, environmental design and for the choice of materials that together contribute the architectural expression of the self-directed design project.

The integration of technical skill to support the qualitative and expressive content of the architecture, exemplifying the architectural challenge of the self-directed design project.

Category 3: Generic Cognitive Skills

Deal with complex issues and make informed judgements in situations in the absence of complete or consistent information.

Category 4: Communication, ICT and Numeracy Skills

Communicate on an expert level in a variety of roles and contexts.

Communicate, using appropriate methods, to a range of audiences with different levels of knowledge/expertise.

Category 5: Autonomy, Accountability and Working with Others

Exercise autonomy and initiative in carrying out a self-directed programme of study.

Collaboration with peers and others in sharing knowledge and researching their self directed design project.

9. Indicative Content:

Typically the study explores and demonstrates knowledge of the technical systems required to support the Final Design Thesis and also the in-depth investigation of a major component of the architectural programme.

10. Description of Summative Assessment:

All learning outcomes for the Course are assessed through written examination, drawings and exhibition

10.1 Please describe the Summative Assessment arrangements:

Learning level outcomes stated for course must be achieved, and ability to fulfil these is graded against the marking scheme (see Academic Regulations).

An interim submission of work is made on Jan 17th 2013. The work is assessed by the teaching team and a summative grade and written feedback is given. Should a student wish to exit the programme at this point, if sufficient credit has been achieved across courses the exit award of Postgraduate

certificate will be awarded

11. Formative Assessment:

Verbal feedback is given at regular tutorials. Written feedback given at reviews and following the interim submission.

11.1 Please describe the Formative Assessment arrangements:

The final assessment is made at the end of the course where a technical diary and the final exhibition submitted in Term 3. It is the student's responsibility to prepare and produce work to allow the discussion and development of work through the session, and edit, prepare and produce a final exhibition for assessment. The work exhibited should be supported by design studies, reports precedent studies and sketchbooks as appropriate to the thesis and design proposal.

The submission is assessed in two stages, firstly by the teaching team for the course, then by the internal examination board.

12. Collaborative:

Yes

No

12.1 Teaching Institutions:

Mackintosh School of Architecture

13. Requirements of Entry:

Successful completion of stage 4 or equivalent

14. Co-requisites:

Final Design Thesis; Professional Studies 5; Research Project 5

15. Associated Programmes:

16. When Taught:

Term 1, 2 and 3

17. Timetable:

Monday 17th Sept 2012	General introduction
Monday 13 th February 2013	Interim submission / formative assessment
Thursday 24 th May	Final submission / internal presentation
Monday 3 rd and Tuesday 4 th June 2013	External examination

18. Available to Visiting Students:

Yes

No

19. Distance Learning:

Yes

No

20. Placement:

Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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21. Learning and Teaching Methods:		
Method	Formal Contact Hours	Notional Learning Hours (Including formal contact hours)
Lecture		
Studio		
Seminar/Presentation	15	
Tutorial	10	
Workshop	5	
Laboratory work		
Project work		180
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination		
Essay		
Private Study	Not Applicable	100
Other (please specify below)		
TOTAL	30	300

22. Description of "Other" Teaching and Learning Methods:
n/a

23. Additional Relevant Information:

<p>24. Indicative Bibliography:</p> <p>Randall Thomas, Max Fordham, Environmental Design Randall Thomas, Trevor Garnham, The Environments of Architecture Dean Hawkes, the Environmental Imagination Silver / Mclean, Introduction to Architectural Technology Alison G. Kwok, Walter T. Grondzik, The green studio handbook: environmental strategies for schematic design Manfred Hegger, Energy Manual: Sustainable Architecture Andrew Watts, Modern Construction Handbook Paola Sassi, Strategies for Sustainable Architecture David Lloyd Jones, Architecture and the environment: bioclimatic building design E Fitzgerald, A Green Vitruvius E Dunster, The ZEDbook Colin Porteous, Kerr MacGregor, Solar Architecture in Cool Climates Ed. J Goulding, J Owen Lewis, TC Steemers, Energy Conscious Design, a Primer for Architects Cowan and Smith, Dictionary for Architectural and Building Technology A MacDonald, Structure and Architecture Tony Hunt, Tony Hunt's sketchbooks 1&2 Sandaker and Eggen, the Structural Basis of Architecture Bill Addis, Creativity and Innovation</p>

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