

**Course Code:**

UDPF202

**Session:**

2017/18

**1. Course Title:**

Architectural Technology 5

<b>Version</b>	<b>2. Date of Production/ Revision:</b>	<b>Date of Approval</b>
1.0	February 2018	February 2018

<b>3. Level:</b>
SCQF 11

<b>4. Credits:</b>
30

<b>5. Lead School/Board of Studies:</b>
Mackintosh School of Architecture

<b>6. Course Contact:</b>
Tim Sharpe

<b>7. Course Aims:</b>
The course extends design skills within a rigorous creative studio environment and provides the opportunity to explore and demonstrate technical aspects of architecture through a self-directed design project.

<b>8. Intended Learning Outcomes of Course:</b>
At the end of the course each student should have the ability to demonstrate and/or work with:  <b>Category 1 : Knowledge and Understanding</b> <ul style="list-style-type: none"><li>• 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.</li><li>• A critical understanding of the intellectual and aesthetic content of selected buildings to substantiate architectural judgments.</li><li>• Be a coherent expression of a critical approach to making architecture at this moment in time.</li></ul>

- 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.
- \*Demonstrate development of highly complex design proposals with integrated technology benefiting from design iterations over a sustained period.

**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 both the technical systems required to support the Final Design Thesis and also the visual realisation of a major component of the architectural programme.

**10. Description of Summative Assessment:**

Work is assessed through written work and studio related projects.

No.	Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments) or length (exam)
1	Technical Study and Portfolio	In depth Technical Study report of 3,000 words	40	Semester 2 Week 5
2	Technical Study Diary	Arch Technical Study Diary and thesis exhibition	60	Semester 2 Week 13

*Pass in ALL components required*

**10.1 Please describe the Summative Assessment arrangements:**

The final assessment is made at the end of the course where a technical diary and the final exhibition submitted in Semester 2. 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.

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

**11. Formative Assessment:**

Formative guidance given during studio based tutorials

**11.1 Please describe the Formative Assessment arrangements:**

N/A

**12. Collaborative:**

Yes

No

**12.1 Teaching Institutions:**

N/A

**13. Requirements of Entry:**

Pass in Bachelor of Architecture with Honours Stage 4 or Diploma in Architecture Stage 4 or equivalent .

**14. Co-requisites:**

Studio Work 5; Professional Studies 5 ; PGT elective

**15. Associated Programmes:**

Diploma in Architecture

**16. When Taught:**

Semesters 1 and 2

**17. Timetable:**

Start of Semester 1: General Introduction

Early Semester 2 : Submission of in depth report.

End of Semester 2: Submission of technical diary, exhibition and portfolio of work.

**18. Available to Visiting Students:**Yes No **19. Distance Learning:**Yes No **20. Placement:**Yes No **21. Learning and Teaching Methods:**

Method	Formal Contact Hours	Notional Learning Hours (Including formal contact hours)
Lecture		
Studio		130
Seminar/Presentation		
Tutorial	30	30
Workshop		
Laboratory work		
Project work		
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination		
Essay		
Private Study	Not Applicable	140
Other (please specify below)		
<b>TOTAL</b>	<b>30</b>	<b>300</b>

**22. Description of "Other" Teaching and Learning Methods:**

N/A

**23. Additional Relevant Information:**

N/A

**24. Indicative Bibliography:**

Thomas, R. (Ed.). (2006). *Environmental design: an introduction for architects and engineers*. Taylor & Francis.

Thomas, R., & Garnham, T. (2007). *The environments of architecture: Environmental design in context*. Taylor & Francis.

Hawkes, D. (Ed.). (2008). *The environmental imagination: technics and poetics of the architectural environment*. Taylor & Francis.

Silver, P., & McLean, W. (2013). *Introduction to architectural technology*. Laurence King.

Smith, P. F. (2007). *Sustainability at the cutting edge: emerging technologies for low energy buildings*. Routledge.

Fitzgerald, E. (1999). *A green vitruvius: principles and practice of sustainable architectural design*. London: James & James(Science Publishers) Ltd.

Simmons, C., & Gilbert, B. (2008). *The ZEDbook: solutions for a shrinking world*. Taylor & Francis.

Porteous, C. (2005). *Solar architecture in cool climates*. Earthscan.

Goulding, J. R., Lewis, J. O., & Steemers, T. C. (Eds.). (1992). *Energy conscious design: a primer for architects*. Batsford for the Commission of the European Communities.

Littlefield, D. (Ed.). (2012). *Metric handbook: planning and design data*. Routledge.