

Course Code:

UDPF2XX

1. Course Title:

Architectural Technology 5 : Partial Year Exchange Out

Version	2. Date of Production/ Revision:	Date of Approval
1.0	April 2014	23 April 2014 (CAG)

3. Level:

SCQF 11

4. Credits:

15 SCQF/ 7.5 ECTS

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:

By the end of this course students will be able to:

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. Work developed through this course will build upon work generated during first 15 week in host institution.

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	Week 29
2	Technical Study Diary	Arch Technical Study Diary and thesis exhibition	60	Week 38

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 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.

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

11. Formative Assessment:

Verbal feedback is given at regular tutorials. Written feedback given at reviews.

11.1 Please describe the Formative Assessment arrangements:

Formative feedback is given verbally at tutorials and in written format at reviews, there is no graded formative assessment.

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 :Partial Year, Professional Studies 5; Postgraduate Elective.

15. Associated Programmes:

Diploma in Architecture

16. When Taught:

The second 15 weeks of Stage 5

17. Timetable:

End of Term 3 : 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		
Seminar/Presentation	5	5
Tutorial	5	5
Workshop	5	5
Laboratory work		
Project work		70
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination		
Essay		
Private Study	Not Applicable	50
Other (please specify below)		
TOTAL	15	150

22. Description of "Other" Teaching and Learning Methods:**23. Additional Relevant Information:****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.