THE GLASGOW SCHOOL PARE

Glasgow School of Art Course Specification Course Title: Architectural Technology 4

Please note that this course specification is correct on the date of publication but may be subject to amendment prior to the start of the 2023-24 Academic Year.

Course Code:	HECOS Code:	Academic Session:
UBAR502 / UDPF102		2023-24

1. Course Title:	
Architectural Technology 4	

2. Date of Approval:	3. Lead School:	4. Other Schools:
Academic Council December	Mackintosh School of	N/A
2023	Architecture	

5. Credits:	6. SCQF Level:	7. Course Leader:
20	10	Virginia Rammou

8. Associated Programmes:
Bachelor of Architecture (Hons)
Diploma in Architecture

9. When Taught:	
Semester 1 and Semester 2	

10. Course Aims:

The aim of the course is to extend design skills within a creative studio environment. It provides students with an opportunity to develop a coherent and rigorous approach to the technical design of their architectural projects. It requires students to:

- develop and integrate detailed strategies for construction, structural design, fire safety, environmental design, energy and resource management; in relation to their studio projects.
- consider the architectural and ethical implications of their technological choices as a means of developing and expanding a critical architectural practice.

11. 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

• Researched and critical evaluation of the briefing and performance of buildings.

Category 2: Practice – Applied Knowledge and Understanding

- The ability to define what type of research is relevant, what questions to ask, and which formats to record the findings to best serve as a springboard to design decisions.
- A sense of direction and the ability to develop and sustain a line of enquiry being able to identify and develop design ideas thematically as well as undertaking sequential problem solving.
- Undertake strategic thinking exploring options, setting parameters and objectives and testing design ideas against them and comparing likely outcomes in order to make critical judgments about the likely effect of design decisions.
- Research and critical evaluation of how a strategic choice of construction, materials and environmental approaches can determine the character of an architectural design project.

Category 3: Generic Cognitive Skills

• Critically identify, define, conceptualise and analyse complex problems and issues relevant to contemporary discipline of architecture.

Category 4: Communication, ICT and Numeracy Skills

- Communicate and articulate ideas and information fluently and work comprehensively in visual, oral and written forms to a professional level.
- Make formal presentations about specialist topics to informed audiences.

Category 5: Autonomy, Accountability and Working with others

- Exercise autonomy and initiative in carrying out set project briefs and self-directed programme of study.
- A developing critical position as an individual designer and contribute this to the on-going studio debate.
- Deal with complex ethical and professional issues.

12. Indicative Content:

A series of lectures/workshops and/or presentations investigating current issues of architectural technology and how the positive and creative aspects of such investigations infuse and inspire the design process.

13. Description of Summ	ative Assessment Methods:		
Submission through cours	se work and examination through ext	nibition and	portfolio submission.
Pass in ALL components required			
Assessment Method	Description of Assessment	Weight	Submission week
Assessment Method	Method	%	(assignments)
Course work	AT4–1: Technical Study:	40	Summative
	Precedent Study (group work)		submission: Semester
			1, week 12 .
Course work	AT4–2: Technical Study:	60	Summative
	Technical Integration		submission: Semester
			2, week 12
13.1 Please describe the Summative Assessment arrangements:			

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

14. Description of Formative Assessment Methods:

Engagement with formative assessment is a mandatory requirement.

Formative guidance given during both assignments.

14.1 Please describe the Formative Assessment arrangements:

AT4–1: Presentations (in groups) to take place Semester 1, week 8.

Students will be provided with verbal feedback.

AT4–2: Formative submission Semester 2, Week 5. Students will be provided with written feedback.

15. Learning and Teaching Methods:		
Formal Contact Hours	Notional Learning Hours	
20	200	
15.1 Description of Teaching and Learning Methods:		
Semester 1: General Introduction and Lectures,		
Mid Sesmester 1: Formative Assessment AT4–1 via presentation.		
End of semester 1: Summative Assessment AT4–1.		
Mid Semester 2: Formative Assessment AT4–2 via submission.		
End of Semester 2: Summative Assessment: AT4–2.		

16. Pre-requisites:

A pass in BArch Stage 3 or BArch (Hons) degree from external institution

17. Can this course be taken by Exchange/Study Abroad students?	Yes	
18. Are all the students on the course taught wholly by distance learning?	No	
19. Does this course represent a work placement or a year of study abroad?	No	
20. Is this course collaborative with any other institutions?	No	
20.1 If yes, then please enter the names of the other teaching institutions:		
N/A		

21. Additional Relevant Information: N/A

22. 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.

Cowan, H. J., Smith, P. R., & Chow, W. K. (Eds.). (2004). *Dictionary of architectural and building technology*. Taylor & Francis.

Nicholls, R. (2006). *Green Building Bible: Volume 2: Low energy design technical reference* (Vol. 2). Green Building Press.

Macdonald, A. J. (2013). Structure and architecture. Routledge.

Banham, R. (1984). Architecture of the Well-tempered Environment. University of Chicago Press.