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:
UBAR502X-UDPF102X		2023-24

1. Course Title:
Architectural Technology 4 – PARTIAL EXCHANGE IN

2. Date of Approval:	3. Lead School:	4. Other Schools:
PACAAG August 2022	Mackintosh School of Architecture	N/A

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

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

9. When Taught:
Semester 1

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 Summative Assessment Methods:

Submission through course work submission.

Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments)
Course work	AT4–1: Precedent Study (group work)	40	Summative submission: Semester 1, week 12.
Course work	AT4–1b: Technical Strategy Report	60	Summative submission: Semester 1, week 15.

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 AT4–1.
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.

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 Semester 1: Formative Assessment AT4–1 via presentation. Mid Semester 1: Specialist AT tutorials for AT4.1b AT tutorials will be provided from week 8 onwards to support AT4.1b submission with formative feedback provided during tutorials. Students Studio Work requirements adjusted to provide balance. End of semester 1: Summative Assessment AT4–1 and AT4.1b.	

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.
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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.