

**Glasgow School of Art Course Specification**  
**Course Title: Architectural Technology 5**

*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.*

<b>Course Code:</b>	<b>HECOS Code:</b>	<b>Academic Session:</b>
UDPF202		2023-24

<b>1. Course Title:</b>
Architectural Technology 5

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

<b>5. Credits:</b>	<b>6. SCQF Level:</b>	<b>7. Course Leader:</b>
30	11	Virginia Rammou

<b>8. Associated Programmes:</b>
Diploma in Architecture

<b>9. When Taught:</b>
Semesters 1 and 2

<b>10. 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 which will be designed with reference to the RIBA 2030 Challenge.

<b>11. Intended Learning Outcomes of Course:</b>
At the end of the course each student should have the ability to demonstrate and/or work with:
Category 1: Knowledge and Understanding
<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> <li>• An ability to pursue an independent line of enquiry.</li> </ul>

- 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.

**12. 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.

**13. Description of Summative Assessment Methods:**

Work is assessed through written work and studio related projects.

Pass in ALL components required.

Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments)
1.	Technical Strategy report of 3,000 words	40	semester 2, week 2 Summative assessment
2.	Technology Journal and Technical integration	60	semester 2, week 12 Summative assessment

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

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 course is assessed through two submissions, both of which require to be passed.

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 tutorials.

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

N/A

**15. Learning and Teaching Methods:**

Formal Contact Hours	Notional Learning Hours
30	300

**15.1 Description of Teaching and Learning Methods:**

Timetable:  
Start of Semester 1: General Introduction  
Mid Semester 2: Summative Assessment Strategy Report  
End of Semester 2: Summative assessment of Technology Journal and Technical integration.

**16. Pre-requisites:**

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

<b>17. Can this course be taken by Exchange/Study Abroad students?</b>	Yes
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<b>18. Are all the students on the course taught wholly by distance learning?</b>	No
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<b>19. Does this course represent a work placement or a year of study abroad?</b>	No
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<b>20. Is this course collaborative with any other institutions?</b>	No
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**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:**

Adler, Littlefield, Metric Handbook: Planning and Design data  
Cowan and Smith, Dictionary of Architecture and Building Technology  
Extinction Rebellion: This Is Not a Drill  
Sandy Halliday: Sustainable Construction 2018  
IPCC Special Report 2018- Summary for Policy Makers- Chapter 2  
[https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15\\_Chapter2\\_Low\\_Res.pdf](https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15_Chapter2_Low_Res.pdf)

Technical Summary

[https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15\\_TS\\_High\\_Res.pdf](https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15_TS_High_Res.pdf)

MacDonald, Structure and Architecture

Chris Morgan/SEDA: Sustainable Renovation 2019 Executive Summary

Scottish Government: Climate Change Plan 2018-2032

<https://www.theccc.org.uk/publication/net-zero-technical-report/>

Sophie Pelsamakers: The Environmental Design Pocketbook

Colin Porteous: Precedented Environmental Futures: Skin and Substance Sandakar and Eggen, The Structural Basis of Architecture (Chapters 1-3 and 9)

Randall Thomas, Max Fordham, Environmental Design

D'Arcy Wentworth Thompson: On Growth & Form

UK Government Committee on Climate Change: July 2019 Reports: Net Zero Technical Report

<https://>

[www.theccc.org.uk/publication/net-zero-technical-report/](https://www.theccc.org.uk/publication/net-zero-technical-report/)

UN: The Sustainable Development Goals Report 2019 <https://unstats.un.org/sdgs/report/2019/> •

David Wallace Wells: The Uninhabitable Earth

“RIBA 2030 Climate Challenge <https://www.architecture.com/about/policy/climate-action/2030-climate-challenge>