

Module Definition Form (MDF)

Module code: MOD

Version: 2 Date Amended:

1. Module Title

Construction Technology

2a. Module Leader

2b. School

School of Engineering and the Built Environment

2c. Faculty

Faculty of Science and Engineering

3a. Level

4

3b. Module Type

Standard (fine graded)

4a. Credits

15

4b. Study Hours

150

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	BSc (Hons), FdSc Architectural Technology		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

This module introduces Architectural Technology students to general construction knowledge and practical skills required to evaluate and technically draw UK domestic scale buildings of average complexity. It explores the theory and practice of appraising the design and production of buildings their elements and constituent components in an integrated way through research and detailed technical drawing. Students will have the opportunity to explore and research buildings from both textbooks, journals and on site physical analysis in order to undertake a reverse science approach to learning. The module will also introduce knowledge and skills required within the designing of components, their performance specification, life-cycle, quality control, regulatory standards together with an appreciation of their on-site buildability and environmental impact. Research and tutorials, along with other taught modules, will enable students to develop the knowledge base required to undertake the detailed drawing aspects of the assignment. Detailed and scaled vertical sectional drawings will be undertaken to standard industry convention showing detailed interface assemblies with correct annotation, lineweights and hatching. The skills required to successfully complete this module are basic employability skills (Communication and Technical Drawing) for the architectural technologist and will help develop an awareness for industry-based roles in the architectural technology field.

6b. Outline Content

The student is required to demonstrate:

Knowledge Based

- An awareness of building methods used for UK domestic building typologies, their elements, components, material specification, environmental and regulatory issues within the context of Architectural Design Technology.

Skills Based

- Ability to appraise and research UK domestic building typologies in overall context of building design, construction, individual components.
- Ability to interact effectively within a group and work individually with tutors' guidance to produce a technical drawing to a very good standard.
- Ability to communicate effectively in a variety of forms which may include technical drawings, research reports, sketches, model-making and oral presentations to industry conventions.
- Ability to appraise and integrate regulatory criteria to a specific design aspect

6c. Key Texts/Literature

The reading list to support this module is available at: [REDACTED]

6d. Specialist Learning Resources

Design Studio based - VLE

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Demonstrate an awareness of factors affecting the design and technical detailing of conventional UK domestic buildings and their material components.
2	Intellectual, practical, affective and transferrable skills	Appraise design, construction technology and environmental issues within the context of UK domestic scale buildings through research of key texts and precedent study.
3	Intellectual, practical, affective and transferrable skills	Select appropriate materials, taking account of performance and life-cycle criteria.
4	Intellectual, practical, affective and transferrable skills	Develop integrated technical drawing skills by producing 1No. A1 portrait sheet incorporating 1:5 scaled vertical sectional details through the building fabric to industry conventions.

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
████	██	████████ ████████		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	12	1,2	1 hour per week
Other teacher managed learning	24	1-3	2 hours per week
Student managed learning	114	3-4	9.5 hours per week
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	20 (%)	Fine Grade	30 (%)
Group Coursework Stage 1. Illustrated 1000 word group report (individual contribution 500 words) demonstrating research of strategic texts & case study evidence to a professional standard					
Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Coursework	1-4	80 (%)	Fine Grade	30 (%)
Group Coursework Stage 2. 2 A1 sheets illustrating scaled (1:5) technical detailing (individual contribution to one vertical section detail through building fabric) to include scales, line definition and annotation to technical drawing conventions					
<p>In order to pass this module, students are required to achieve an overall mark of 40%.</p> <p>In addition, students are required to:</p> <p>(a) achieve the qualifying mark for each element of fine graded assessment of as specified above</p> <p>(b) pass any pass/fail elements</p>					