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MODULE DESCRIPTOR

Module Title

Building Technology 2

Reference	AC1005	Version	12
Created	April 2022	SCQF Level	SCQF 7
Approved	July 2005	SCQF Points	15
Amended	November 2022	ECTS Points	7.5

Aims of Module

To enable the student to understand the properties of construction materials, the principles of construction logic and detailing, and the integration of simple services in small scale and domestic buildings.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Demonstrate understanding of the properties and uses of materials and components employed in simple contemporary construction.
- 2 Demonstrate knowledge of the principles and forms of construction and detailing employed in simple contemporary construction.
- 3 Demonstrate knowledge of the principles and integration of basic services.
- 4 Apply knowledge of construction to the rational and detailed resolution of a simple building.

Indicative Module Content

Basic principles of load bearing masonry construction; Introduction to foundation typology; Integration of structural principles with construction methods. Historic development of masonry construction techniques; Material characteristics and properties; Masonry building fabric; Use and specification of building components; Internal finishes and fittings, Environmental considerations of construction techniques and specification choices; . Basic domestic scale services; Foul drainage; Surface water drainage, heating, water supply. Application and integration of renewable technologies and low carbon equipment.

Module Delivery

This module is delivered by lectures, practical workshops, directed student research and online activities.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	60%	Outcomes Assessed:	3, 4
Description:	Over the course of the semester students are asked to compile a 'Journal' of coursework exercises, site visits, records of workshop exercises and lecture notes which incorporate analytical graphic, written and technical design tasks.				

Component 2

Type:	Examination	Weighting:	40%	Outcomes Assessed:	1, 2
Description:	In an open book exam setting where students can use the 'Journal' that they have produced over the semester, students are requested to answer questions covering material presented in lectures and/or tutorials.				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

The overall module grade is based on 60% weighting of Component 1 (Coursework Y axis) and 40% weighting of Component 2 (Examination X axis). An overall minimum grade D is required to pass the module. Non-submission of either component will result in an NS grade. Architecture students must pass each component with a minimum D grade to pass the module. The main grid applies to all other courses.

		Examination:						NS
		A	B	C	D	E	F	
Coursework:	A	A	A	B	B	C	E	
	B	B	B	B	C	C	E	
	C	B	C	C	C	D	E	
	D	C	C	D	D	D	E	
	E	C	D	D	E	E	E	
	F	E	E	E	E	F	F	
NS		Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module	None in addition to course (SCQF7) entry requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 Borer P. & Harris C., 2005. The Whole House Book. 2nd Edition. Centre for Alternative Technology Publications.
- 2 Ching F D K., 2008. Building Construction Illustrated. 4th Edition. John Wiley & Son.
- 3 Deplazes A., 2013 3rd edition. Constructing Architecture: Materials, Processes, Structures; A Handbook. Birkhauser Verlag AG.
- 4 McMullan R., 2007. Environmental Science in Building. 6th Edition, Palgrave Macmillan.
- 5 Riley M., Cotgrave A., 2013. Construction Technology I: House Construction. 3rd Edition Palgrave Macmillan.