

MODULE DESCRIPTOR

Module Title

Building Technology 2

Reference	AC1005	Version	13
Created	March 2023	SCQF Level	SCQF 7
Approved	July 2005	SCQF Points	15
Amended	August 2023	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

The module introduces the properties of common building materials and components ? their origin, physical properties, the forms that they take, size of modules etc. The elements of a building are introduced? foundations, walls, floors, roofs - their functions and how they are assembled/constructed. Concepts of building performance are introduced including thermal performance and U value measurement. Principles of essential building services of drainage, lighting and electrics are covered. Application of principles of construction, detailing and servicing is focussed on a domestic scale building with contemporary masonry construction.

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: 100% Outcomes Assessed: 1, 2, 3, 4

Description: A 'Journal' of workshop exercises, lecture notes and technical information.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The overall module grade is based on 100% weighting of component 1 (coursework). A grade D is required to pass the module. Non submission will result in an NS grade.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
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.