Module Title Building Technology 2	ReferenceAC1005SCQFSCQF
	Level 7
	SCQF Points 15
Keywords Masonry, Timber-Panel, Construction, Foundations, External envelope, Concepts of sustainability, Health and Safety, Human wellbeing, Basic building services.	ECTS Points 7.5
	Created May 2002
	Approved July 2005
	Amended August 2009
	Version No. 6

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module	Mode of Delivery
None.	This is a lecture-based module supplemented with
Corequisite Modules	workshops and practical work, which includes
None.	laboratory experiments and site visits. Directed study to
Precluded Modules	core texts and resource material will be encouraged.
None.	

Assessment Plan

	Learning Outcomes	
Component 1	Assessed 1,2,3,4	
Component 2	1,2,3,4	

Component 2 - The examination will assess understanding of technology.

Aims of Module

To provide the student with the ability to understand and apply the key principles of building superstructures and their construction.

Learning Outcomes for Module

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

- 1. Apply principles of heat transfer, insulation and condensation to building construction.
- 2. Explain and apply the principles of masonry and timber frame construction.
- 3. Discuss and reproduce key technical details of buildings.
- 4. Explain and apply an understanding of the main advantages and disadvantages of different construction techniques for buildings of a domestic scale.

Indicative Module Content

The principle of layered construction (Timber panel and Masonry) will be explored through case studies and specialist lectures as well as through workshops and laboratory work. In depth case studies will be used to explain how buildings act as systems. The principles of humidity, condensation and natural ventilation are explored and applied. Basic domestic services are explored including utilities connections and distribution; hot water and central heating installation.

Indicative Student Workload

	Full	Part
Contact Hours	Time	Time
Assessment	6	6
Lectures	20	20
Tutorials/Workshops/Studio	20	20
Directed Study		
Directed Study	70	70

Component 1 - The coursework is in the form of a portfolio consisting of technical glossary and detailed annotated construction drawings documenting site visits, experiments, construction principles and case studies. The coursework may be assessed by time controlled studio assessment.

Indicative Bibliography

- 1.Borer P. & Harris C.,2005. The Whole HouseBook. 2nd Edition. Centrefor AlternativeTechnology 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. ConstructionTechnology I: HouseConstruction. 3rd EditionPalgrave Macmillan.

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