Module Specification

Module Summary Information

1	**Module Title**	Construction Technology
2	**Module Credits**	20
3	**Module Level**	4
4	**Module Code**	BNV4111

5	**Module Overview**

The basic principles of construction technology have not changed for hundreds of years. However, the materials and techniques used to achieve these basic principles are constantly evolving; to enable the construction industry to deliver better quality buildings. Scarcity of resources and the continuing demand of more sophisticated clients, end users and other stakeholder interests, are driving the construction industry to provide buildings which facilitate enhanced environmental and energy performance, and greater flexibility, in response to ever increasing financial, environmental, legal and economic constraints
This unit will introduce the different technological concepts used to enable the construction of building elements; from substructure to completion, by understanding the different functional characteristics and design considerations to be borne in mind when selecting the most suitable technological solution.

Resources for learning, teaching and assessment will all be available on the university virtual learning environment (VLE), Moodle. Delivery will be by a series of lectures, practical classes and workshops all teaching space-based. Assessment will be based on an individual student portfolio containing one or more tasks, formative feedback will be given during the practical classes and workshops.

6	**Indicative Content**

Topics included in this unit are: substructure, superstructure, finishes, building services and infrastructure components. The principles of buildability in terms of health and safety, efficiency, economy, sustainability and quality are considered.

7	**Module Learning Outcomes** **On successful completion of the module, students will be able to:**	
	1	Explain the terminology used in construction technology.
	2	Describe the different techniques used to construct a range of substructures and superstructures, including their function and design selection criteria.
	3	Identify the different types of civil engineering/infrastructure technology used in support of buildings.
	4	Illustrate the supply and distribution of a range of building services and how they are accommodated within the building.

8	Module Assessment		
Learning Outcome			
	Coursework	**Exam**	**In-Person**
1-4	**X**		

9	Breakdown Learning and Teaching Activities
Learning Activities	**Hours**
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	48
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	60
Private Study (PS) includes preparation for exams	92
Total Study Hours:	200