

Module Specification

Module Summary Information

1	Module Title	Built Environment Technology 2
2	Module Credits	20
3	Module Level	5
4	Module Code	BNV5128

5	Module Overview
<p>This module builds on your foundation of knowledge gained around residential technology in the Built Environment Technology 1 module at Level 4 (or any other accepted prior learning) and develops your understanding of commercial construction techniques and methods, it will also provide you with an understanding of modern and sustainable methods of commercial construction. Relevant Building Regulation, Health Safety and Welfare legislation will also be reviewed concurrently.</p> <p>In particular, you will be introduced to everyday materials, construction methods and building services. You will gain an insight into the properties of materials and the basic scientific principles that apply to them.</p> <p>Individually you will work on an existing virtual commercial building model enabling an appreciation of the role of the designer and an understanding of the design process.</p>	

6	Indicative Content
<p>Commercial and Industrial building solutions: e.g. high rise, long span. Fire engineering. Substructure: foundations, basements and ground floors. Superstructure: building frames, upper floors, roofs, curtain wall and cladding systems. Access and circulation: mechanical transportation (lifts, escalators and travelators. Stairways, partitions and internal doors, raised access floors, and ceiling systems. Finishes. Building services and equipment: mechanical engineering, electrical engineering and public health engineering. Building Information Modelling (BIM). Sustainable solutions: national and international building performance assessment methods. Case studies.</p>	

7	Module Learning Outcomes	
	On successful completion of the module, students will be able to:	
	1	Effectively utilise the terminology used in the construction of framed commercial buildings including the evolution of current technologies from former technologies.
	2	Apply knowledge of the different construction materials and how they are combined in buildings; structure, fabric, components and finishes.
	3	Apply common UK and international performance requirements of buildings and building elements and emerging technologies inform technical innovation and development of new materials.
	4	Apply the principal legislation and regulations that affect commercial technology and their influence on new environmental technologies.

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	24	
Private Study (PS) includes preparation for exams	128	
Total Study Hours:	200	