Module Specification

Module Summary Information

1	**Module Title**	Integrated Digital Design - Commercial
2	**Module Credits**	20
3	**Module Level**	5
4	**Module Code**	BNV5113

5	**Module Overview**

The benefits of automation and digitalisation have steered government reforms globally towards embedding digitalization throughout architecture, engineering, construction and operations sectors. For example, the UK government's strategy 'Digital Built Britain 2025' is an ambitious plan to digitise these sectors. This strategic vision has similarly been enacted via the BIM Level 2 mandate to extend digitized design, construction and asset handover for commercial developments.

Against this backdrop, this module aims to provide a foundation for you to successfully develop a Digital Execution Plan (DEP), understand BIM processes, develop commercial project documentation, and achieve interdisciplinary understanding of roles and responsibilities on a single simulated commercial project.

This module builds upon the level 4 module 'BNV4104 Integrated Digital Design: Residential' and allows you to further your understanding of working in a BIM environment working towards UK and international standards for productive and sustainable construction.

6	**Indicative Content**

An essential part of this portfolio coursework is the ability to develop a digital execution plan in the context of your professional discipline.

The culmination of work conducted during the module will produce an individual (discipline specific) digital execution plan for a client on a new commercial scheme. The client will be a major contractor who will provide the BIM specifications, the client brief to assist students with producing the coursework.

There are three interrelated aspects of the project coursework, namely: i) defining the coursework itself (and practitioner support available for such); ii) developing project documentation and strategy for a DEP which will expand the student's knowledge of digital construction in practice; and iii) coursework assessment and feedback.

7	Module Learning Outcomes On successful completion of the module, students will be able to:	
	1	Effectively apply current UK development standards on a commercial BIM project.
	2	Identify and apply required skills and attributes of a professional practitioner and team member in the digital AECO sector.
	3	Identify and employ appropriate processes of defining, manipulating, extracting and embedding relevant information from BIM models in a discipline specific context.
	4	Select and employ sustainable standards and practice in a BIM environment.

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		92
Private Study (PS) includes preparation for exams		60
Total Study Hours:		200