Module Specification

Module Summary Information

1	**Module Title**	Planning and Design for the Built Environment
2	**Module Credits**	20
3	**Module Level**	4
4	**Module Code**	BNV4116

5	**Module Overview**

This module aims to provide the students with a solid foundation of planning and design significance within the built environment. It takes an overarching approach of various aspects and elements which are crucial within the planning and design stages. The module commences with establishing an understanding of the key stages of planning and design process. It then identifies current key legislations and factors that affect the planning and design process. One of the module focuses is identifying current approaches and techniques with relation to sustainability and renewable energy. As part of the coping with the recent advancements within the construction industry, a focus will be drawn upon the integrated digitised delivery and the role of various disciplines involved.

The module uses a variety of learning resources including books, journals, industrial and professional bodies' reports to ensure sufficient, effective and practice-based knowledge delivery. Students will have access to key texts that support their learning experience and will have weekly uploaded online learning resources to support the tutorials, seminar tasks and the assessment. Through this module, students will be able to acquire many employability skills such as teamwork, problem solving, planning and organising, and technology use. With the completion of this module, students will be able to understand and develop awareness of the essential considerations that are required during the planning and design stages in a construction project.

6	**Indicative Content**

1. **Establish an understanding of the key stages of planning and design process**
    - RIBA Plan work: focus on the key stages of planning and design process with outlining core objectives, procurement and program elements.
    - Planning stage: constraints, building regulations, building control, disabled access.
    - Design stage: client brief, intended use, change of use, disabled access, influence of size, shape, location, and position of buildings.
2. **Identify key legislations and factors that affect the planning and design process**
    - Planning stage: legal restraints, current legislations, statutory requirements.
    - Design stage: relevant legislation, project nature, effects of brown/green field, lifecycle costing, implications of design.
3. **Identify current approaches and techniques in relation to sustainability and renewable energy**
    - Factors: client requirements; constraints (technical, legal, environmental); financial implications (sourcing, funding, planning, maintenance)
    - Specification of materials: aesthetics; performance in use; energy efficiencies
    - Specification of building services: requirements for temporary and permanent service installations; disposal of waste materials during

construction process; disposal of waste materials during life of the building; sustainable systems and renewable energy sources.

4. **Establish an appreciation of integrated digitised delivery in the built (and natural) environment for all disciplines involved.**
    - Use of modern computer systems to aid the design process (e.g. CAD, 2D, 3D)
    - Deployment of Building Information Modelling to aid integrated project delivery and providing an enhanced approach towards coordination and collaboration between all disciplines involved.

7		**Module Learning Outcomes** **On successful completion of the module, students will be able to:**
	1	Establish an understanding of the key stages of planning and design process.
	2	Identify key legislations and factors that affect the planning and design process.
	3	Identify current approaches and techniques in relation to sustainability and renewable energy.
	4	Establish an appreciation of integrated digitised delivery in the built (and natural) environment for all disciplines involved.

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