

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Advanced Design and Surveying Skills
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	5
<b>4</b>	<b>Module Code</b>	BNV5126

<b>5</b>	<b>Module Overview</b>
<p>This module supports the Architectural Technologists' and Building Surveyors' need for specialisms and will see you focus on specialist professional development and allow you to build on the Level 4 Design and Surveying Skills module (or other approved study) to extend both your specialist CAD skills of computer aided drawing and contextualisation, and to develop further your building design and presentation skills.</p> <p>The module introduces advanced applications to develop and explore sustainability, urban streetscapes and building forms. It will also allow you to engage with current image creation/transformation software to create advanced display material. You will be provided an opportunity to implement professional skills appropriate to design and surveying, particularly sustainable design and then implement design decisions and focus on professional display using 2D and 3D formats.</p>	

<b>6</b>	<b>Indicative Content</b>
<p>Topics covered will include:</p> <ul style="list-style-type: none"> <li>· Freehand communication and representational drawing skills.</li> <li>· Research for design decision making, and recording.</li> <li>· Application of 2D and 3D software for the implementation of design ideas.</li> <li>· Advanced visual presentation techniques and the production of design and display material.</li> <li>· Integration of building stability, sustainability and build economy in design.</li> <li>· Integration of appropriate structural form and specification.</li> <li>· Spatial Planning.</li> <li>· Production and presentation of construction drawings and building models.</li> <li>· Master Planning.</li> <li>· Communication of design decisions through physical building models.</li> <li>· Professional reflection, review and development in a structured format.</li> </ul>	

7		Module Learning Outcomes
<b>On successful completion of the module, students will be able to:</b>		
1	Use advanced skills in employing a full range of creation, modifier, and transformation tools within the CAD, BIM and related software environments to produce high-quality building models and drawings within industry standard parameters.	
2	Employ skills in design decision making based on sustainable and economic build principles, and properly integrate appropriate structural and specification information.	
3	Engage in, and appropriately present, structured research information to represent design decision making and be able to justify decisions.	
4	Properly integrate information from various sources and media to produce professional design representations, and display information in a professional format.	
5	Employ appropriate self-development techniques in a professional format, to record, reflect and plan.	

8		Module Assessment		
Learning Outcome	Coursework	Exam	In-Person	
1-5	X			

9		Breakdown Learning and Teaching Activities
Learning Activities	Hours	
<b>Scheduled Learning (SL)</b> includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	48	
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	24	
<b>Private Study (PS)</b> includes preparation for exams	128	
<b>Total Study Hours:</b>	200	