

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Measuring and Estimating Practice
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	4
<b>4</b>	<b>Module Code</b>	BNV4118

<b>5</b>	<b>Module Overview</b>
<p>This Module aims to introduce the students to the practice of measurement and tendering applied for a construction project. It provides the students with the knowledge basis that forms the essential understanding required for measurement and tendering. The module commences with establishing an understanding of cost planning techniques throughout the key stages of planning and design process. It then introduces the students to taking off and measurement techniques for different work packages based on industry standard with emphasis on the new rules of measurement. The module then focuses on identifying industry standard work stages and their relationship to the estimating and tendering process. As part of understanding one of the major issues and complexities in a tendering process, a focus will be drawn upon the estimating methods required for tender pricing.</p> <p>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 practices involved in measurement and tendering for a construction project.</p>	

<b>6</b>	<b>Indicative Content</b>
<ol style="list-style-type: none"> <li><b>1. Measurement Quantities</b> <ul style="list-style-type: none"> <li>• <i>Take-off measurements and produce quantities for a number of the following elements or work sections:</i> complicated foundations and substructures including brick and concrete basement, sloping site excavations and underpinning, superstructure including complicated external and internal walls</li> </ul> </li> <li><b>2. Produce measured bill of quantities using measurement techniques based on industry standards</b> <ol style="list-style-type: none"> <li>a. Traditional, cut and shuffle and computer aided systems: working up processes as appropriate to such methods, production of bills of quantities for a major work section or trade section of a construction project, different formats of bills of quantities and other contract documentation and their effect on the construction team</li> </ol> </li> <li><b>3. Establish an understanding of cost management throughout the stages of the RIBA plan of works.</b></li> <li><b>4. Identify industry standard work stages and their relationship to the estimating and tendering process</b> <ul style="list-style-type: none"> <li>• Tendering documentation</li> <li>• Tendering process</li> <li>• Standards</li> </ul> </li> </ol>	

- Considerations
- 5. Establish an appreciation of estimating methods required for tender pricing in a construction project**
- All in hourly rate
  - BOQs and unit rates

7		Module Learning Outcomes
<b>On successful completion of the module, students will be able to:</b>		
1	Produce measured bill of quantities using measurement techniques based on industry standards.	
2	Establish an understanding of cost management throughout the stages of the RIBA plan of works.	
3	Identify industry standard work stages and their relationship to the estimating and tendering process.	
4	Establish an appreciation of estimating methods required for tender pricing in a construction project.	

8				Module Assessment
Learning Outcome				
		Coursework	Exam	In-Person
1			X	
2		X		
3		X		
4			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	60	
<b>Private Study (PS)</b> includes preparation for exams	92	
<b>Total Study Hours:</b>	200	