

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Civil Engineering Project Management
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	7
<b>4</b>	<b>Module Code</b>	BNV7123

<b>5</b>	<b>Module Overview</b>
<p>In accordance with the programme philosophy and aims, this module is designed to support civil engineers with their management skills, allowing them to use their technical knowledge within a management context in the civil engineering industry. An overview of the project management tools and techniques will be covered to form a good knowledge base including WBS, CPM and PERT. There will be an emphasis on the challenges when working with multi-disciplinary team. This includes looking at possible contradictions when managing information in a construction project. No construction project is risk free, and thus assessing risks poses a significant impact on the success and quality of a construction project. This module will also look at the role of technology in supporting the planning and visualisation of many construction processes. This involves looking at the latest adverts in construction technology such as BIM various applications (e.g. 3D and 4D technology)</p> <p>The module follows the Civil Engineering programme philosophy of developing your intellectual and practical competence in technical, managerial, economic and theoretical aspects of civil engineering. Similarly the learning and teaching philosophy incorporates learning through formal lectures including presentations, seminars, tutorials and problem based scenarios, backed up by guest speakers when appropriate. Learning is practice-based, knowledge applied, work related and incorporates project based activities often within an international setting.</p> <p>Learning activities will incorporate formative assessment including work-related learning and problem solving, in-class tasks, seminar work, peer assessment and learning sets. The assessment outline section below details assessment for this module by way of assignments.</p> <p>Practical work within this module includes seminars, laboratory and tutorial work, use of ICT as a visual tool, problem-based scenarios and group project work. You are encouraged to plan their own work schedules, manage their time and extend their presentational skills</p>	

<b>6</b>	<b>Indicative Content</b>
<p>This module is largely to deliver the management of civil engineering projects by giving a brief overview of a key area of the industry and in some cases carry out some basic calculations often using industry standard software tools. Not to be overlooked is the aspect of Technology, which is a key aspect in understanding how to manage a project. An assessment of risk is also crucial. Finally, there will be time devoted to using Building Information Modelling in order to see how it can assist in the management of civil engineering projects.</p>	

<b>7</b>	<b>Module Learning Outcomes</b>		
	<b>On successful completion of the module, students will be able to:</b>		
	<b>1</b>	Develop the skills to identify, apply and assess appropriate project management tools and techniques.	
	<b>2</b>	Manage situations with limited or contradictory information, adapting to work within a multi-disciplinary construction team.	
	<b>3</b>	Assess the role of quality and risk management in a construction project.	
	<b>4</b>	Evaluate advanced construction planning and visualisation tools and judge where appropriate.	

<b>8</b>	<b>Module Assessment</b>		
<b>Learning Outcome</b>			
	<b>Coursework</b>	<b>Exam</b>	<b>In-Person</b>
<b>1-4</b>	<b>X</b>		

<b>9</b>	<b>Breakdown Learning and Teaching Activities</b>	
<b>Learning Activities</b>		<b>Hours</b>
<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		32
<b>Private Study (PS)</b> includes preparation for exams		120
<b>Total Study Hours:</b>		200