

<b>Module Title</b>	Software Engineering	<b>School</b>	Mathematical & Computer Sciences				<b>On or Off-Campus</b>	On	
<b>Module Co-ordinator</b>	Monica Farrow	<b>SCQF Level</b>	9	<b>Module Code</b>	F29SO	<b>Semester</b>	1	<b>Credits</b>	15

<b>1. Pre-requisites</b>	F28SD Software Design, F28IM Internet, Communication & Mobility, F28DM Database Management, F28ID Interaction Design								
<b>2. Linked Modules (specify if synoptic)</b>	F29PD Professional Development (synoptic pair)								
<b>3. Excluded Modules</b>									
<b>4. Replacement Module</b>	<b>Code:</b>	<b>5. Availability as an Elective</b>		Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>		
	<b>Date Of Replacement:</b>								
<b>6. Degrees for which this is a core module</b>	Mandatory module for BSc Computer Science, BSc Information Systems, MEng Software Engineering, BEng/MEng Computing & Electronics								
<b>7. Aims</b>									
<ul style="list-style-type: none"> <li>◆ To equip students with knowledge and skills for the effective management of a group project which encompasses the software development lifecycle</li> <li>◆ To enable students to reinforce their knowledge and skills gained in software processes, internet technology, database management and interaction design</li> <li>◆ To build students understanding, knowledge and skills in teamwork, software development in groups, and project planning.</li> <li>◆ To enable students to develop a broader understanding of the interrelationship of development life-cycles and a critical capability in the selection of tools and methods to support project planning, systems analysis, requirements capture, and system specification.</li> </ul>									
<b>8. Syllabus</b>									
<p>Review and extension of the components studied in earlier years which contribute to the group project</p> <p>Software project management including working in groups, project planning and costing, risk assessment</p> <p>Use of Industry-level Standards for software development and documentation, covering aspects such as change control and requirements traceability</p> <p>Further study of software development tools, especially version control</p>									

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### 9. Learning Outcomes (HWU Core Skills: Employability and Professional Career Readiness)

<b>Subject Mastery</b>	<p><b>Understanding, Knowledge and Subject-Specific Skills</b></p> <p><i>Scholarship, Enquiry and Research (Research-Informed Learning)</i></p> <ul style="list-style-type: none"> <li>◆ A broad and integrated understanding and knowledge of the various development and programming paradigms, software development life-cycles, teamwork and project planning</li> <li>◆ Detailed theoretical and practical knowledge of the use of methodologies for requirements capture, iterative design, resource capture and management, deployment and evaluation of systems, at a basic level</li> <li>◆ Practice in the use of object-oriented programming, databases, scripting and markup languages applied to a substantial project</li> </ul>
<b>Personal Abilities</b>	<p><b>Industrial, Commercial &amp; Professional Practice</b>    <i>Autonomy, Accountability &amp; Working with Others</i>    <i>Communication, Numeracy &amp; ICT</i></p> <ul style="list-style-type: none"> <li>◆ Identification, critical analysis and evaluation of the development of a software system (PDP)</li> <li>◆ Practice in working in a group, negotiating requirements, reaching a consensus, taking responsibility for own work, taking part in a presentation, and working with others to a deadline (PDP)</li> <li>◆ Appreciation of the interrelationship of knowledge domains</li> </ul>

### 10. Assessment Methods

### 11. Re-assessment Methods

Method	Duration of Exam (if applicable)	Weighting (%)	Synoptic modules?	Method	Duration of Exam (if applicable)
Group project		50%	F29PD	Remedial work - individual	
Coursework		20%			
Examination	2 hour	30%			

### 12. Date and Version

<b>Date of Proposal</b>	22/11/07	<b>Date of Approval by School Committee</b>	December 2007	<b>Date of Implementation</b>	September 2008	<b>Version Number</b>	1
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