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|  |  |  | **Descriptor Reference:** AXXXX | |
| **Full Title:** | Project Semester 2 | |  |  |
| **Short Title:** | Project Semester 2 | |  |  |
| **Department:** | Computing and Mathematics | |  |  |
| **Credits:** | 5 | **Level:** | Introductory | |
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| **Description of Module/Aims:** | | | | |
| This module will introduce the student to fundamental distributed version control systems and basic communication skills, including presentation skills. The student will practice these skills through building an artifact based on multiple concurrent strands/modules. This module will act as an opportunity for the student to contextualise and link cross-strand concepts. | | | | |
| **Pre-requisite(s):** | None | | | |

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| **Programmes** |
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| **Indicative Content** |
| * Development of a digital portfolio using a distributed version control system. * Communication of ideas in correct, clear and modern format. |

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| **Learning Outcomes** |
| *On successful completion of this module, a student should be able to:*   1. Combine knowledge, skills or practices from (at least two) strands in the programme into a model that demonstrates an understanding of the core concepts of those strands. 2. Implement the above model and present the resulting working artifact. 3. Use a modern, professional distributed version control system to display (and continually update) his/her digital portfolio including all artifacts produced as part of this semester. 4. Write a clear, research-level report, and, using current technology, present this work in a clear and accessible way. |

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| **Learning and Teaching Methods** | | | |
| * Combination of lectures and computer-based practical labs. * Cooperative learning/peer tutoring. * Self-directed learning. | | | |
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| **Assessment Methods** | | | |
|  | **%** | | **Outcomes Assessed** |
| Continuous Assessment | 100% | |  |
| * Portfolio | 50% | | 1, 3 |
| * Presentation | 50% | | 1,2,4 |

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| **Assessment Criteria** | | |
| Fail | <40% | Inability to develop a model and present a working artifact. No digital portfolio presented. |
| Pass | 40%-49% | Ability to develop a model and present a working artifact. Digital portfolio presented (including version control). |
| Second Class Honours – Grade 2 | 50%-59% | All the above and in addition has applied concepts from more than two modules/strands. Well-structured digital portfolio. |
| Second Class Honours – Grade 1 | 60%-69% | All the above and in addition, be able to integrate and analyse concepts from more than two and at least one past module, showing an ability to transfer skills and knowledge across modules/strands. |
| First Class Honours | 70%-100% | All previous to an excellent level. Shows the ability to evaluate different models. Shows synthesis through the implementation of cross-strand innovative artifacts. Innovative use of distributed version control system. |

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| **Learning Modes** | | |
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| **Learning Type** | **F/T Hours** | **P/T Hours** |
| Independent Learning | 75 |  |
| Practical | 36 |  |
| Lecture | 12 |  |

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| **Essential Materials** |
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| **Supplementary Materials** |
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| **Requested Resources** |
| Room Type: Computer Lab |