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| Transcript Title | Final Year Project |

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| Full Title | Final Year Project |

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| Attendance | N/A | Discipline | Project/Dissertation |

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| Coordinator | Brendan Watson | Department | Information Technology |

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| Co Author(s) | Ms. Aileen OMara |

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| Official Code | PJDS08040 | NFQ Level | 08 | ECTS Credit | 10 |

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| Module Description |
| This module allows the learner, in the process of developing a significant software system, to demonstrate the ability to meet project milestones and to produce deliverables within schedule. Also, it allows the learner to acquire and apply the skills necessary for the generation and presentation of a technical report on the development of the software system. |

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| Learning Outcomes |
| *On completion of this module the learner will/should be able to*  1. Demonstrate utilisation of appropriate theory, practices and tools for the specification, design, implementation and evaluation of a personally developed software system.  2. Act as an autonomous individual, demonstrating time management, organisational skills andeffective progress.  3. Apply appropriate investigative/research skills.  4. Assess new and emerging technologies.  5. Appraise and critically assess his/her own work.  6. Develop documentation of both their investigative/research work and software work in the Project Report, adhering to the Project Report guidelines. |

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| Teaching and Learning Strategies |
| Emphasis is placed on active learning and simulation of a modern professional software development environment. The teaching and learning strategy will encompass active, collaborative and self‑directed learning.  The number of tutorial hours allocated must be the number of students divided by 3 plus 1. These hours must be allocated on a per programme bases. |

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| Assessment Strategies |
| Learners must achieve at least 40% to pass the module.  In general 40% of the marks will be allocated to the software system and 60% to the technical report. The technical report documents both the literature review and the software system created by the learner. However, in exceptional circumstances, where the research and investigation relates to an advanced topic but does not encompass the development of a major software system, 90% of the marks may be allocated to the report.  Guidelines on Project Standards  A failed project (<40%) is likely to result from the following:  A poor understanding of the project area and related technologies;  Weak or incomplete analysis of project requirements and deliverables;  Lack of fulfilment of requirements ;or a failure to display progress in key aspects of the project;  Failure to demonstrate a substantial working implementation.  To be awarded a pass (40‑50%) the project should normally demonstrate the following characteristics:  A good awareness of relevant literature/background material;  The application of project management principles;  Requirements (mostly) fulfilled and a substantial working implementation being demonstrated;  An ability to describe in detail the project and any decisions made on the direction of the project.  To be awarded second class honours (50‑70%) the project should demonstrate the characteristics necessary for a pass and, in addition, should normally demonstrate:  An in‑depth knowledge of relevant literature/background material;  Good project management;  Fulfilled requirements and a fully functioning implementation being demonstrated;  An awareness of the shortcomings of the project and how they may be overcome;  An ability to explain the project to a person with some knowledge in the specific area.  To be awarded a first honour (70% or higher) the project should demonstrate the characteristics necessary for a second honour and, in addition, should normally demonstrate:  An in‑depth understanding of relevant literature/background material;  Excellent design and quality of implementation;  Evidence of independent thought and innovation;  An ability to explain and defend approaches taken to an academic well‑versed in the domain. |

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| Repeat Assessment Procedures |
| Any candidate not achieving the 40% pass level will be considered by the Examinations Board to determine whether additional work (to be submitted by Sept 1st) or a repeat with attendance for the full subject is necessary, to equip the candidate with the skills sufficient for progression. |

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| Assessment Facilities |
| The number of tutorial hours allocated must be the number of students divided by 3 plus 1. These hours must be allocated on a per programme bases. |

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| Indicative Syllabus |
| The final year Project will comprise of the development of a significant software system in conjunction with a technical report on the investigation/research and development process associated with the Project.  Candidates for the degree examination must submit the title of their agreed proposal for their Project and an outline of their proposed plan of research at the beginning of the first term. The proposal must be in an area of application of information technology. The technical report and the associated software must be submitted in an agreed format by an agreed date.  An agreed project schedule indicating deliverables and project milestones is to be submitted with the initial proposed plan of investigation/research. This plan is to be reviewed and updated regularly and presented to the supervisor. A software development methodology appropriate to the nature of the project is to be adhered to.  The technical report must show evidence that the candidate has carried out, in a satisfactory manner, an investigation and research of the selected topic that must be at an advanced level relating to a significant development or interpretation of the topic. The report must contain an introductory section that discusses the purpose of the work, its significance and its relationship to other work of a similar nature. This section should also describe the proposed software system  The main body of the technical report should provide a description of the investigation/research that the candidate has personally carried out, and should describe the design and implementation of the software system developed.  The technical report should have a concluding section that assesses the significance of the work carried out and indicates future direction for work of a similar nature.  For completion of the assessment of the Project, candidates will be required to give both an oral presentation on their work and a demonstration of their software project. In addition to bound copies of their report, students are expected to submit installation disks and detailed installation and user instructions for their software projects. |

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| CourseWork / Assessment Breakdown |

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| CourseWork / Continuous Assessment | 100 % |

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| Coursework Assessment Breakdown |

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| Description | Outcome Assessed | % of Total | Assessment Week |
| Software Application Development and Project Report | 1,2,3,4,5,6 | 100 | End of Year |

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| End Exam Assessment Breakdown |

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| Description | Outcome Assessed | % of Total | Assessment Week |

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| Full Time Mode Workload |

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| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
| Tutorial | Computer Laboratory | Project Supervisor Meetings | 1 | Weekly | 1.00 |

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| Total Average Weekly Learner Workload 1.00 Hours |

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| Module Resources |

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| Module Book Resources |
| None |
| Module Alternate Book Resources |
| None |
| Module Other Resources |
| An up to date list of resources for this module will be maintained on the institutes VLE. |
| Module URLs |
| http://www.lynda.com/ |
| Additional Information |
| The number of tutorial hours allocated must be the number of students divided by 3 plus 1. These hours must be allocated on a per programme bases. |

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| ISBN BookList |

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| Book Details |
| Christian Dawson 2009 *Projects in Computing and Information Systems: A Student's Guide (2nd Edition)* Pearson Education Canada  ISBN‑10 0273721313 ISBN‑13 9780273721314 |

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| Programme Membership |

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| Programme Title | Intake Year |
| Bachelor of Science (Honours) in Software Development | 201500 |