

Module: Project 381

Module name:	Project 381
Code:	PRJ381
NQF level:	8
Type:	Core – Bachelor of Computing (all streams)
Contact time:	30 hours
Structured time:	100 hours
Self-directed time:	40 hours
Notional hours:	170 hours
Credits:	17
Prerequisites:	PMM281

Purpose

In this module the student is expected to demonstrate the acquired knowledge and skills through the delivery of a project, in line with the exit level outcomes of the academic component of the qualification. For the delivery of the project, the student is required to work in a multi-disciplinary team, engaging with different stakeholders regularly to verify the satisfaction of the deliverable.

Outcomes

Upon successful completion of this module, the student will be able to:

- Demonstrate knowledge related to the chosen problem domain, understanding the theories, research methodologies, methods and techniques relevant to identifying, constructing and preparing such a project or product for the market. Finally showing an understanding and application of knowledge in the particular context of a project.
- Demonstrate an understanding of the complexities and uncertainties that one has to face during any project development whereby the selection, application of appropriate standard procedures, processes and techniques to the unfamiliar problems faced during the life cycle of any project.
- Use a range of specialised skills gathered during the course of study to identify, analyse and address the abstract problems faced by designing and building projects drawing systematically on the body of knowledge and methods appropriate to the construction of a project from start to finish.
- Identify and address ethical issues faced when constructing a project and the impact it will have on society based on critical reflection and the suitability of different ethical value systems when faced when developing for a culturally diverse country.
- Produce and communicate information to various stakeholders of the project demonstrating the ability to present and communicate effectively to a range of audiences, offering creative insights, rigorous interpretations and solutions to problems and issues appropriate to the target audience with the use of effective techniques and discourse.
- Understand the roles and responsibilities between elements of the proposed system and how it will influence other systems in the same problem domain. Learners will demonstrate an understanding of how we live in a world where there are systems of systems.

- Demonstrate the ability to take full responsibility for his or her work, decision-making and use of resources, and full accountability for the decisions and actions of others where appropriate within the project team.

Assessment

- Continuous evaluation of work through several contact sessions, where technical and user required deliverables will be assessed.
- Continuous evaluation of project work, whereby the project team must present certain artefacts with various ranges of content and functionality. Students will work in groups and conduct peer assessments. The grade will reflect participation in the project, the role and mastery of the course through a final presentation on the developed project.

Teaching and Learning

Learning materials

- Online prescribed sources.
- E-library: All e-book recommendations for co-requisites.
- Own notes.

Learning activities

During this module students will be required to write up a response to a project request from a stakeholder. The responses will be evaluated and the best response will be selected and the student whose response was chosen will become the team leader for the specified project. Once a proposal is accepted the team leader can draft his own team from the pool of available students based on the premise that it is a gender and culturally diverse group. During several contact sessions, artefacts relating to specific phases of the project must be presented and feedback will be supplied based on submitted artefacts. During certain phases, the roles of team members will be changed to provide an equal opportunity for all members to fulfil various project roles. Planning and risk identification for all elements of the project must be maintained during the length of the project to prevent the project from running over the allotted time. Stakeholder engagement is key to the project and will occur during certain phases of the project to ensure stakeholder satisfaction. Final projects will be demonstrated and assessed as a group to stakeholders.

Notional learning hours

Activity	Units	Contact Time	Structured Time	Self-Directed Time
Lecture				
Formative feedback	15	30.0		
Project & peer interaction	9		96.0	30.0
Project presentation	1		4.0	10.0
Exam				
		30.0	100.0	40.0

Syllabus

- Individual project proposal document submission
- Final project proposal document submission
- Planning document submission
- System Analysis and Design document submission
- Database Design submission
- Class Design submission
- Object Behaviour Model submission
- Coding
- Test plan document submission
- Testing
- Implementation
- Project Submission
- Presentation