



Unit Outline (Higher Education)

Institute / School:	Institute of Innovation, Science & Sustainability
Unit Title:	Project
Unit ID:	ITECH3502
Credit Points:	15.00
Prerequisite(s):	(ITECH2250)
Co-requisite(s):	(ITECH3001 or ITECH3108 or ITECH3113 or ITECH3504 or ITECH3506)
Exclusion(s):	(ITECH3208 and ITECH3602)
ASCED:	029999

Description of the Unit:

The project unit will give the student authentic experience working in a self-directed team toward the development of a solution to an information technology problem. This unit uses an agile development approach and involves working with a client and possibly other stakeholders to establish goals, create user stories then work collaboratively to complete work to realise the project vision. Students will negotiate deliverables and outcomes based on the project vision and client's priorities. At the end of semester, students will present their deliverables in a poster/trade fair style presentation. Students will apply authentic industry practices, tools and techniques. This is an advanced unit and students are expected to build on the SFIA skills developed in their chosen Major area. This unit involves self-directed and independent exploration and learning of new skills.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Placement Component: No

Supplementary Assessment: No

Supplementary assessment is not available to students who gain a fail in this Unit.

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	■	■	■	■	■	■
Intermediate	■	■	■	■	■	■

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Advanced	■	■	✓	■	■	■

Learning Outcomes:

Knowledge:

- K1.** Apply agile project management methodologies, organise meetings and conduct ceremonies to manage, present and deliver project outcomes
- K2.** Interpret, analyse and prioritise stakeholder requirements and maintain effective relationships with stakeholders
- K3.** Select and apply relevant quality assurance processes throughout the project lifecycle
- K4.** Identify and reference relevant industry standards and frameworks such as the Australian Computer Society's (ACS) Core Body of Knowledge (CBOK) and the Skills Framework for the Information Age

Skills:

- S1.** Analyse and develop a solution to an information communication technology (ICT) problem
- S2.** Collaborate and coordinate with team members to maintain effective relationships and negotiate outcomes to ensure deliverables align with the project vision and client's priorities.
- S3.** Manage and monitor progress of a project using a variety of project management and ICT tools and techniques and artefacts.
- S4.** Design, create and deliver project outcomes that provide benefit to stakeholder/s

Application of knowledge and skills:

- A1.** Present project deliverables in a poster/trade fair style format, demonstrating the ability to convey technical information clearly and effectively.
- A2.** Reflect on the project process and outcomes, evaluating your performance, the team's performance as well as the project's impact, including attention to professional ethical issues.

Unit Content:

This unit will provide students with an opportunity to undertake a significant project of work aligned to their chosen Major area of study. The project will be completed by a group of students (groups to be created based on students' Majors, SFIA skills and projects available). Each project team will be allocated a staff supervisor and a client. The client will present a real IT based problem and project vision. The project will involve some work toward a solution, proof of concept, or prototype model. The student teams will follow authentic appropriate practices toward developing a solution that addresses the problem. At the end of the semester, the student team will deliver agreed artefacts to their client. The satisfactory completion of a project will normally require a committed and consistent effort over the entire duration of the project. Activities during scheduled classes will provide opportunities for support and staff mentoring of the student groups. Students will work in self-directed teams and follow an agile methodology tailored to their specific project needs.

Topics may include:

- Agile methodologies
- Industry practices, tools and techniques
- Communication with stakeholders
- Self-directed learning as required to support the creation of project deliverables.

FEDTASKS

Federation University Federation recognises that students require key transferable employability skills to prepare them for their future workplace and society. FEDTASKS (**T**ransferable **A**tttributes **S**kills and **K**nowledge) provide a targeted focus on five key transferable Attributes, Skills, and Knowledge that are embedded within curriculum, developed gradually towards successful measures and interlinked with cross-discipline and Co-operative Learning opportunities. *One or more FEDTASK, transferable Attributes, Skills or Knowledge must be evident in the specified learning outcomes and assessment for each FedUni Unit, and all must be directly assessed in each Course.*

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	Assessment task (AT#)
FEDTASK 1 Interpersonal	<p>Students will demonstrate the ability to effectively communicate, inter-act and work with others both individually and in groups. Students will be required to display skills in-person and/or online in:</p> <ul style="list-style-type: none"> Using effective verbal and non-verbal communication Listening for meaning and influencing via active listening Showing empathy for others Negotiating and demonstrating conflict resolution skills Working respectfully in cross-cultural and diverse teams. 	K1, K2, S1, S2, S3, S4, A1, A2	AT1, AT2, AT3
FEDTASK 2 Leadership	<p>Students will demonstrate the ability to apply professional skills and behaviours in leading others. Students will be required to display skills in:</p> <ul style="list-style-type: none"> Creating a collegial environment Showing self-awareness and the ability to self-reflect Inspiring and convincing others Making informed decisions Displaying initiative 	K1, K2, S2, S3, S4, A1, A2	AT3, AT2
FEDTASK 3 Critical Thinking and Creativity	<p>Students will demonstrate an ability to work in complexity and ambiguity using the imagination to create new ideas. Students will be required to display skills in:</p> <ul style="list-style-type: none"> Reflecting critically Evaluating ideas, concepts and information Considering alternative perspectives to refine ideas Challenging conventional thinking to clarify concepts Forming creative solutions in problem solving. 	K1, K2, K3, K4, S1, S2, S4, A2	AT1, AT2, AT3

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	Assessment task (AT#)
FEDTASK 4 Digital Literacy	<p>Students will demonstrate the ability to work fluently across a range of tools, platforms and applications to achieve a range of tasks. Students will be required to display skills in:</p> <ul style="list-style-type: none"> • Finding, evaluating, managing, curating, organising and sharing digital information • Collating, managing, accessing and using digital data securely • Receiving and responding to messages in a range of digital media • Contributing actively to digital teams and working groups • Participating in and benefiting from digital learning opportunities. 	K1, K2, S1, S2, S3, S4, A1, A2	AT1, AT2, AT3
FEDTASK 5 Sustainable and Ethical Mindset	<p>Students will demonstrate the ability to consider and assess the consequences and impact of ideas and actions in enacting ethical and sustainable decisions. Students will be required to display skills in:</p> <ul style="list-style-type: none"> • Making informed judgments that consider the impact of devising solutions in global economic environmental and societal contexts • Committing to social responsibility as a professional and a citizen • Evaluating ethical, socially responsible and/or sustainable challenges and generating and articulating responses • Embracing lifelong, life-wide and life-deep learning to be open to diverse others • Implementing required actions to foster sustainability in their professional and personal life. 	K2, S1, S4, A2	AT1

Learning Task and Assessment:

Students will regularly consult with their project supervisor and carry out guided reading to support the analysis and design of their system. Learning tasks will include: [1] consultation with client and supervisor; [2] regular progress reports to supervisor and/or peers; [3] production and review of documentation throughout the life of the project requirements analysis; [4] analysis, design and implementation of an ICT system (including the gaining of new skills); [5] negotiating a client relationship, managing and controlling change requests; and preparation of technical presentations. Assessment will comprise the following tasks:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S4, A1, A2	Prepare and deliver project presentation/s and conduct meetings tailored to a specific audience	Presentation/s or meetings with stakeholders - supervisor, client and/or other students	20 - 40%

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K2, K3, K4, S1, S2, S4, A1, A2	Project deliverables	Agreed project artefacts including documentation as appropriate.	40 - 60%
K1, K3, S1, S2, S3, A1, A2	Contribute to work in a team to manage and deliver the project	Planning and management team artefacts, evidence of individual contribution and adoption of coordinated team processes.	20 - 40%

Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)