Course Outline (Higher Education)

School:	School of Engineering, Information Technology and Physical Sciences
Course Title:	IT PROJECT MANAGEMENT TECHNIQUES
Course ID:	ITECH2250
Credit Points:	15.00
Prerequisite(s):	(ITECH1001 and at least 7 computing courses)
Co-requisite(s):	Nil
Exclusion(s):	(CP793 and CP799 and CP867 and ITECH3213 and ITECH5213)
ASCED:	029999

Description of the Course :

This course focusses on traditional project management methodologies. Product and project life cycles are examined, and the project management process group model is used as a tool for running IT projects. Current issues in IT project management are discussed, and project management software skills are developed throughout the course.

The course also contains a hurdle task which requires students to get involved with their local IT community through attendance and participation in events, such as seminars, workshops, expos, discussion forums etc. The aim is to provide students with a broad understanding of the IT industry, its research foundations and its place in servicing society.

Grade Scheme: Graded (HD, D, C, etc.)

Work Experience:

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

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

Program Level:

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Introductory						
Intermediate			✔			
Advanced						

Learning Outcomes:

Knowledge:

K1. Identify traditional and agile approaches and lifecycles for managing information technology projects;

K2. Describe project management methodologies, such as the project management body of knowledge;

K3. Acquire a theoretical knowledge of the project management process groups model;

K4. Explain the basic components of a project management plan and its importance in improving the success of information technology projects;

K5. Recognise various complexities and diversity between information technology projects;

K6. Classify and discuss current issues in information technology project management;

K7. Identify the Australian Computer Society`s (ACS) Core Body of Knowledge (CBOK) and where it is represented in industry practice;

K8. Discuss the Skills Framework for the Information Age (SFIA) and how it is reflected in industry practice.

Skills:

S1. Apply the process groups model to manage information technology projects of various complexities and scales;

S2. Observe real world information technology problems and apply project management principles and techniques to solve these problems;

S3. Employ a systems thinking approach to identify critical roles and stakeholders in information technology projects;

S4. Demonstrate decision-making processes to solve a range of information technology project issues;

S5. Utilise a range of organisational and self-management skills, emulating real world practice of information technology project managers;

S6. Analyse and link the ACS`s CBOK and SFIA to industry practice.

Application of knowledge and skills:

A1. Adopt a project management framework to write a project management plan, for a simulated real world contemporary information technology project;

A2. Undertake project management approaches to solve unpredictable and complex information technology software development problems;

A3. Demonstrate competence in using appropriate project management software;

A4. Critique research and industry practice and determine your place in the spectrum of career possibilities.

Course Content:

Topics may include:

- Traditional and agile approaches and lifecycles;

- Project management process groups;
- Aligning business strategies and IT projects;
- Project selection techniques;
- Project management methodologies e.g. PMBOK;
- Core functions of project management e.g. integration, scope, cost, time and quality management;
- Facilitating functions of project management e.g. communication, human resources, risk, procurement and stakeholder management;
- Project management software;
- Current issues in IT project management;
- IT and related industry activity and research developments in the local community, and around the globe; ACS's CBOK, SFIA and their relationship with industry; Career pathways.

Values:

V1. Appreciate the importance of ethical project management practice within an information technology business environment;
V2. Value the importance of effective communication to solve problems on information technology projects;
V3. Value the importance of adopting a lifelong learning approach to maintain currency in information technology project management skills and techniques;
V4. Value the significance of software quality in information technology projects;
V5. Recognise the importance of research to the development and progress of the IT industry;
V6. Value IT as an underlying transformative technology to all of society in the information and immersive ages;
V7. Appreciate your career possibilities and how they can be achieved;
V8. Appreciate the range of problems faced by industry practitioners and how problem solving skills learnt may be applied in the industry context;
V9. Appreciate how theory and practice learnt is applied in industry.

Graduate Attributes

The Federation University FedUni graduate attributes (GA) are entrenched in the Higher Education Graduate Attributes Policy (LT1228). FedUni graduates develop these graduate attributes through their engagement in explicit learning and teaching and assessment tasks that are embedded in all FedUni programs. Graduate attribute attainment typically follows an incremental development process mapped through program progression. **One or more graduate attributes must be evident in the specified learning outcomes and assessment for each FedUni course, and all attributes must be directly assessed in each program**

Graduate attribute and descriptor		Development and acquisition of GAs in the course			
		Learning Outcomes (KSA)	**Code** A. Direct B. Indirect N/A Not addressed	**Assessment task (AT#)**	**Code** A. Certain B. Likely C. Possible N/A Not likely
GA 1 Thinkers	Our graduates are curious, reflective and critical. Able to analyse the world in a way that generates valued insights, they are change makers seeking and creating new solutions.	K1, K2, K3, K4, S3	A	2, 3, 4	A
GA 2 Innovators	Our graduates have ideas and are able to realise their dreams. They think and act creatively to achieve and inspire positive change.	S1, S4, S5	A	1, 2	A
GA 3 Citizens	Our graduates engage in socially and culturally appropriate ways to advance individual, community and global well-being. They are socially and environmentally aware, acting ethically, equitably and compassionately.	K2, K3, S2, A1, A2, A3	B	1, 2, 4	B
GA 4 Communicators	Our graduates create, exchange, impart and convey information, ideas, and concepts effectively. They are respectful, inclusive and empathetic towards their audience, and express thoughts, feelings and information in ways that help others to understand.	K6, S1, A1	A	1, 2, 3, 4	A
GA 5 Leaders	Our graduates display and promote positive behaviours, and aspire to make a difference. They act with integrity, are receptive to alternatives and foster sustainable and resilient practices.	S3, S4, A2	B	2, 4	B

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, K4, S1, S2, S4, S5, A1, A2 and A3	Class activities, lectures, self-directed or group exploration.	Exercises/Assignments/Presentations	30% - 50%
K1, K2, K3, K4, K5, K6, S2, S3 and S5	Review and practice of skills and knowledge.	Tests/Examination(s)	50% - 70%
K7, K8, S6 and A4	Artifact demonstrating a community engagement activity. This report will describe the activity and relate it to the course's learning outcomes, CBOK and SFIA.	Journal	Satisfactory/Unsatisfactory

Adopted Reference Style:

APA