Course Outline (Higher Education)

School:	School of Science, Engineering and Information Technology
Course Title:	PROJECT 1
Course ID:	ITECH7403
Credit Points:	30.00
Prerequisite(s):	(6 computing courses)
Co-requisite(s):	(ITECH7401)
Exclusion(s):	(ITECH7602)
ASCED Code:	029999

Description of the Course :

This course provides students with an opportunity to work on an Information Technology (IT) or Information System (IS) related real-world business problem and to engage in research. Students will form a team of 3-4 students and work on an IT/IS project with a business client and a project supervisor. In this course, students will analyse their clients business processes and their IT/IS requirements, opportunities and/or problems. Students will conduct research to explore the problem domain in the given project and to investigate how similar problems were dealt in the literature. At the end of this course, students will develop a high impact project report with a concrete plan to deliver new IT/IS solution(s) to improve their clients existing business processes.

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

Work Experience:

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

Placement Component:	No

Program Level:

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

Learning Outcomes:

Knowledge:

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K1. Analyse a client`s business processes and their IT/IS requirements

K2. Identify potential solution(s) to address a client`s IT/IS needs, problems and/or opportunities

K3. Relate theories and principles learned in other IT/IS courses to addressing or solving the contemporary needs of the client.

K4. Research state-of-the-art in a problem domain and investigate how similar problems were solved

K5. Choose appropriate methodologies, tools and technologies for a project

K6. Manage legal, ethical, privacy and/or security issues related to a project

Skills:

S1. Perform feasibility study to evaluate a project

S2. Organise and manage a project team and resource constraints (time, cost, scope and quality)

S3. Work as part of a collaborative team and maintain the professional relationship with team members, client and supervisor

S4. Demonstrate problem solving and critical thinking

S5. Adapt state-of-the-art industry standards, approaches and methods in a project

S6. Use a variety of project management, collaboration, modelling and analytical tools as required

Application of knowledge and skills:

A1. Propose a new state-of-the-art IT/IS solution(s) to improve a client`s business processes

A2. Produce a high impact project proposal which includes clear definition of the problem, requirements and stakeholder analysis, proposed solution, feasibility study, cost-benefit analysis along with time, quality, communication and risk management plans, as required

A3. Deliver appropriate, professional, industry level documentations and/or research reports.

Course Content:

This course is designed to foster problem-based self learning and research. There will be minimal formal lecture.

Topics may include:

- Requirements analysis and modelling

- Problem solving

- Research and literature review

- Creative and critical thinking

- Communication and reporting

- Project management

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- Change and risk management

- Quality assurance

- Business and data analysis

- Professional documentation

- Team building

Values:

V1. Appreciate the value of technological innovations and their applications to modern businesses and wider community

V2. Recognise the importance of creativity, critical thinking and flexibility in solving real-world business problems

V3. Aware of industry standards, methodologies, processes and procedures prescribed by national and international professional bodies

V4. Aware of the ethical issues and professionalism in dealing with business client

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, K3, K4, K5, K6, S1, S2, S3, S4, S5	Demonstration of good understanding of client`s business and appropriate engagement in the project (workshops, meetings, research, project management etc.).	Meeting minutes, summary of work outcomes, progress reports, planning documents, oral presentations and/or individual interviews.	30%-40%
K1, K2, K3, K4, K5, K6, S1, S2, S3, S4, S5, S6, A1, A2, A3	Good understanding of client`s requirements; adequate research; use of appropriate methodologies, tools and industry standards; professional communication and documentation	Written artefacts (project charter, literature review, relevenace report, project report, progress report etc.) appropriate to the project; may include individual component	60%-70%

Adopted Reference Style:

APA