

Course Outline

Title: SPECIAL TOPICS IN COMPUTING

Code: ITECH3227

Formerly: CP772

Faculty / Portfolio: Faculty of Science

Program Level:

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

Pre-requisites: (8 Computing Courses)

Co-requisites: Nil

Exclusions: Nil

Progress Units: 15

ASCED Code: 029999

Learning Outcomes:

Knowledge:

- K1.** examine future research directions in a information and computer science context;
- K2.** investigate solutions to complex problems in the field of information and computer science; and
- K3.** acquire specialist knowledge in the field of information and computer science;

Skills:

- S1.** demonstrate independent work skills in an information and computer science research environment;
- S2.** critique topical literature related to information and computer science;
- S3.** demonstrate information literacy skills by being able to effectively locate, manage, critically evaluate and use information; and
- S4.** display a range of written and oral communicate strategies to disseminate research results;

Application of knowledge and skills:

- A1.** present a written and oral exposition of knowledge and ideas in a area of information and computer science research; and
- A2.** write a supporting paper or proposal on a topic related to a information and computer science research project.

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Values and Graduate Attributes:

Values:

- V1. appreciate the impact of information technology on society; and
- V2. show an awareness of the ethical and social implications for an information and computer science research area of interest.

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	In a environment which fosters initiative and lifelong learning, students will continue to learn and acquire specialist information and computer science knowledge.	High
Self Reliance	Students will participate in a self-directed and collaborative learning environments to develop knowledge of future research directions in information and computer science.	High
Engaged Citizenship	Students will engage with the research community to develop an understanding of complex problems and solutions in the fields of information and computer sciences.	High
Social Responsibility	Students will apply ethical practices to undertake investigations, and produce quality research output in the area of information and computer sciences.	High

Content:

This is dependent on the topic area and staffing.

Assessment:

In general students will be expected to attend classes, read relevant material, complete practical exercises, and contribute to learning activities in the course. Assessment will be a mix of assignments, presentations, examinations, and other activities which are considered appropriate to the material covered. The criteria applied will be consistent with those used in other course in the program.

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
K1, K2, K3, S1, S2, S3 and A2	Seminars, guided reading, discussion and analysis of research literature	Exercises/Assignment	40% - 60%
K1, K2, K3, S2, S3, S4, A1 and A2	Analyse, and synthesise specialist knowledge, and research skills to a special research topic of interest.	Research Report/Presentation	60% - 80%

Adopted Reference Style:

APA

Presentation of Academic Work:

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<https://federation.edu.au/students/assistance-support-and-services/academic-support/general-guide-for-the-presentation-of-academic-work>