

Course Outline

Title: RESEARCH PROJECT I

Code: ENCOR7010

Formerly: EK871

Faculty / Portfolio: Faculty of Science and Technology

Program Level:

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

Pre-requisites: Nil

Co-requisites: Nil

Exclusions: (EK871)

Credit Points: 15

ASCED Code: 030701

Learning Outcomes:

Knowledge:

- K1.** Realise the importance of research for engineering development
- K2.** Understand the characteristics of research problems and the evolution of research process
- K3.** Comprehend the various dimensions of critical thinking
- K4.** Knowledge of research principles and methods applicable to the field of particular engineering research project the student undertaken

Skills:

- S1.** Research and collect information required for the implementation of a research project
- S2.** Develop practical and theoretical expertise in the project area
- S3.** Analyse and apply research design principles to the implementation of a project
- S4.** Develop technical research skills to justify and interpret theoretical propositions, methodologies and conclusions to specialist (supervisor and examiner) and non-specialist audience (fellow students)
- S5.** Present results in a logical and clear manner to others
- S6.** Perform a risk and hazard assessment and management plan if pertinent to the topic under study

Application of knowledge and skills:

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- A1.** Perform independent research and critical literature review
- A2.** Apply knowledge and skill learnt from previous courses into an independent research project
- A3.** Technical presentation to specialist and non-specialist audience

Values and Graduate Attributes:

Values:

- V1.** Enhancement of lifelong learning skills by the application of existing knowledge to the solution of new problems
- V2.** Form an independent intellectual demeanour befitting a professional graduate
- V3.** Appreciate the need for adherence to deadlines for completion of work

Content:

Topics may include:

- Introductory Talk
- Assessment Interview (x2), critical literature review and Project Folder
- Research Proposal

Assessment:

Assessment Task	Assessment Type	Weighting
project	project	100%

Adopted Reference Style:

Presentation of Academic Work: