Course Outline (Higher Education)

School:	School of Science, Engineering and Information Technology
Course Title:	RESEARCH PROJECT II
Course ID:	ENCOR7020
Credit Points:	15.00
Prerequisite(s):	(ENCOR4010)
Co-requisite(s):	Nil
Exclusion(s):	(EK872)
ASCED Code:	030701

Description of the Course :

This course is intended to monitor and assist students` progress in the second semester of their major research project. Students will have to produce update submissions to highlight their progress and demonstrate their advanced understanding of the topic being researched and their ability to synthesis solutions and apply deep comprehension of theory to practice.

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						✔ (col 9)
Advanced						

Learning Outcomes:

Knowledge:

K1. Realise the importance of research for engineering development

K2. Advanced Understanding of 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

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Skills:

S1. Research, collect and critically review information required for the implementation of a research project

S2. Practical and theoretical advanced expertise in the project area

S3. Analyse and apply research design principles to the implementation of a project

S4. Advanced technical research skills to justify and interpret theoretical propositions, methodologies and conclusions to specialist (supervisor and examiner) and non-specialist audience (fellow students)

S5. Time management skills

S6. Able to perform a risk and hazard assessment and management plan if pertinent to the topic under study

Application of knowledge and skills:

A1. To perform independent research with high level personal autonomy and accountability

A2. Apply knowledge and skill learnt from previous courses into an independent research project

A3. To plan and execute a substantial research-based project with capstone experience and/or piece of scholarship

Course Content:

At this stage, students have been already introduced to the main aspects of the research process and working on design projects (picked up in ENCOR 4010). This course is therefore intended to monitor students` progress in the second semester and guide them through the process of writing up and submitting a progress report. The highly individual nature of this stage means that each student will be given advice by the course coordinators and supervisors to suit their need.

Topics may include:

- Assessment Interview 1 and Project Folder
- Update Talk
- Assessment Interview 2 and Project Folder
- Progress Report

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 seriously the importance of communication and a broader approach to Engineering

V4. Appreciate critically the need for adherence to deadlines for completion of work

Learning Task and Assessment:

Learning Tasks	Assessment Type	Weighting
Assessment Interview 1 and Project Folder	Assessment Interview 1 and Project Folder	20%
Presentation	Update Talk	20%
Assessment Interview 2 and Project Folder	Assessment Interview 2 and Project Folder	20%
Progress Report	Progress Report	40%

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Adopted Reference Style:

APA