PROGRAM PLAN

MASTER OF PROFESSIONAL ENGINEERING (MECHANICAL)

PROGRAM OPTION:
PATHWAY B (160 units)

START DATE:
Semester 1 & 2 2019 - 2020

LOCATION:
Callaghan

This program plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

PROGRAM HANDBOOK
COURSE HANDBOOK

NAME:

STUDENT NO.:

COURSE STATUS KEY
C = Completed
En = Enrolled
NS = Not Started

COMMENCING IN SEMESTER 1

YEAR 1	SEM 1	**DIRECTED** *Please note, this can be studied in any term*	ENGG3500 Managing Engineering Projects **CORE**	**MECH3110** Mechanical Engineering Design 2 **CORE**	**MECH3695** Heat Transfer **CORE**
	SEM 2	ENGG6400 Modelling and Control **CORE**	ENGG6500 Engineering Complexity **CORE**	**MECH3720** Thermodynamics **CORE**	**DIRECTED** *Please note, this can be studied in any term*
YEAR 2	SEM 1	**DIRECTED** *Please note, this can be studied in any term*	MECH6110 Mechanical Design Project	MECH6410 Advanced Mechanics of Solids and FEA	MECH6840A MPE Thesis A **CORE**
	SEMESTER 2	MECH6840B MPE Thesis B (20 units) *This course **must** be taken in the semester immediately following MECH6840A* **CORE**		MECH6480 Advanced Fluid Mechanics and CFD **CORE**	**ELECTIVE** *This can be taken in any term, including summer or winter*

COMMENCING IN SEMESTER 2

YEAR 1	SEM 2	ENGG6400 Modelling and Control **CORE**	ENGG6500 Engineering Complexity **CORE**	**DIRECTED** *Please note, this can be studied in any term*	**DIRECTED** *Please note, this can be studied in any term*
YEAR 2	SEM 1	**MECH3110** Mechanical Engineering Design 2 **CORE**	**MECH3695** Heat Transfer **CORE**	ENGG3500 Managing Engineering Projects **CORE**	MECH6110 Mechanical Design Project
	SEM 2	MECH6840A MPE Thesis A **CORE**	MECH6480 Advanced Fluid Mechanics and CFD **CORE**	**MECH3720** Thermodynamics **CORE**	ELECTIVE *This can be taken in any term, including summer or winter*
YEAR 3	SEMESTER 1	**DIRECTED** *Please note, this can be studied in any term*	MECH6410 Advanced Mechanics of Solids and FEA	MECH6840B MPE Thesis B (20 units) *This course **must** be taken in the semester immediately following MECH6840A* **CORE**	

COMPULSORY REQUIREMENT: EXPOSURE TO PROFESSIONAL PRACTICE (EEP)/INDUSTRIAL EXPERIENCE (IE) 12 WEEKS

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To be eligible to graduate make sure you have completed 160 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 110 units
- Directed courses – 30 units
- Electives – 20 units. Visit the Course Handbook for more information. These electives must be at the 6000 level
- MECH6840A/MECH6840B are multi-term sequence courses. Students must complete Part A before Part B, and complete Part B in the semester immediately following Part A. If you complete Part A and are unable to complete Part B within the timeframe, you must re-enrol in and complete Part A again
- The above enrolment pattern complies with the conditions of international student visas. Failing to follow this enrolment advice may result in international students not being able to graduate within the period of their Confirmation of Enrolment
- It is also a requirement that students complete a total of 12 weeks of industrial experience. More information is found here
- The duration of this program is 3 years full time (40 units per semester) or part time equivalent
- The maximum time to complete this program is 8 years

Pathway A directed courses
Please see the **program handbook** for the most up-to-date information

Complete 30 units from:
MECH3720 Thermodynamics
MCHA6300 Real-time Optimisation for Embedded Systems
MECH6130 Mechanics of Bulk Solids and Particulates
MECH6200 Computer Aided Engineering and Manufacturing
MECH6250 Bulk Materials Handling and Transportation
MECH6760 Renewable Energy Conversion
MECH6830 Engineering Economic Analysis

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook. Please refer to the Program Handbook for specific information on program structure. If you are intending varying from this program plan please seek advice from your Program Advisor.