PROGRAM PLAN

BACHELOR OF MECHATRONICS ENGINEERING (HONOURS)

PROGRAM OPTION:
Full time or part time

START DATE:
Semester 2 2021

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 Academic 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

YEAR 1 SEMESTER 1	**CIVL1100** Fundamentals of Engineering Mechanics CORE	**ELEC1310** Introduction to Electrical Engineering CORE	**MATH1110** Mathematics for Engineering, Science and Technology 1 CORE	**MECH1750** Engineering Materials 1 CORE
YEAR 1 SEMESTER 2	**ELEC1710** Digital and Computer Engineering 1 CORE	**ENGG2300** Engineering Fluid Mechanics CORE	**ENGG2500** Sustainable Engineering Practice CORE	**MATH2310** Calculus of Science & Engineering CORE
YEAR 2 SEMESTER 1	**ENGG1003** Introduction to Procedural Programming CORE	**ENGG1500** Introduction to Professional Engineering CORE	**MATH1120** Mathematics for Engineering, Science and Technology 2 CORE	**MECH1110** Introduction to Mechanical Engineering Design CORE
YEAR 2 SEMESTER 2	**ELEC2430** Circuits and Signals CORE	**ENGG2440** Modelling and Control CORE	**ENGG3300** Machine Learning for Engineers CORE	**ENGG4500** Engineering Complexity CORE
YEAR 3 SEMESTER 1	**ELEC2320** Electrical & Electronic Circuits CORE	**ENGG2100** Engineering Risk & Uncertainty CORE	**MECH2110** Mechanical Engineering Design 1 CORE	**MECH2360** Dynamics of Machines CORE
YEAR 3 SEMESTER 2	**ENGG4440** Nonlinear Control and Estimation CORE	**ENGG4801A^** Engineering Final Year Project A CORE	**MCHA3500** Mechatronics Design 1 CORE	**MCHA4400** Vision-based Navigation CORE
YEAR 4 SEMESTER 1	**AERO3600** Embedded Control Systems CORE	**ELECTIVE** *This can be taken in any term, including summer or winter*	**ENGG3500** Managing Engineering Projects CORE	**MCHA3400** Embedded Systems Engineering CORE
YEAR 4 SEMESTER 2				
YEAR 5 SEMESTER 1	**ELECTIVE** *This can be taken in any term, including summer or winter*	**ENGG4801B^** Engineering Final Year Project B CORE *This must be completed in the semester immediately following ENGG4801A*	**MCHA4100** Mechanical Engineering Project B (20 units) CORE	
YEAR 5 SEMESTER 2				

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 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 300 units

  Enrolment in maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the **Enrolling in Maths information**. More information is in your **Program Handbook**.

  ^ **ENGG4801B** must be completed in the semester immediately following **ENGG4801A.**

- **Electives** – 20 units. Students can choose from any **unrestricted** courses taught at the University (as long as it is not already a core course of this degree). Visit the **Program Handbook** and **Course Handbook** to see a list of available electives.

  Please note, completion of MATH1002 counts as 10 units of electives.
- Students must not exceed 120 units at 1000 level in this program.
- Students must undertake 12 weeks of approved **industrial experience.**
- The duration of this program is 4 year full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 10 years.

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 **Academic Program Advisor**.