Bachelor of Engineering (Honours)

Specialisation in Mechanical Engineering

ENTRY REQUIREMENTS

Academic Requirements	Guaranteed entry - 80
Assumed Knowledge	HSC Mathematics Advanced (Band 4) or equivalent. If you don't have the assumed knowledge, you're advised to undertake a bridging course in mathematics.
Recommended Studies	HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus HSC Physics, or equivalent. HSC Software Design and Development or equivalent.

COURSE STRUCTURE

Bachelor of Engineering= 280 credit points	
Core Zone	70 credit points
Specialisation in Mechanical Engineering	210 credit points
Qualification = 280 credit points	

CORE ZONE

Essential units - 60 credit points	
ENGG1000 Introduction to Engineering	10
ENGG1050 Engineering Design	10
ENGG2000 Engineering Practice	10
ENGG2050 Engineering Systems and Design Thinking	10
ENGG3000 Engineering Project Practice	10
ENGG3050 Engineering Leadership and Entrepreneurship	10
ENGG4099 PACE: Industry Experience	10
Capstone unit - 10 credit points	
Complete the capstone unit below.	
ENGG4001 Professional Practice	10

FLEXIBLE ZONE

Flexible Zone = 40 credit points

This zone allows you to either gain more depth in your chosen area of study or learn about other areas that interest you. You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a minor.

SPECIALISATION

Mechanical Engineering = 210 credit points	
Complete the following units.	
MATH1010	Calculus and Linear Algebra I
MATH1020	Calculus and Linear Algebra II
COMP1000	Introduction to Computer Programming
PHYS1510	Engineering Physics
PHYS1520	Physics for Electrical and Electronic Engineering
MATH2055	Engineering Mathematics II
MECH2001	Engineering Dynamics
MECH2002	Fluid Mechanics
MECH2003	Mechanical Design 1
MECH2004	Mechanics of Solids
MECH2005	Engineering Materials
MECH3001	Thermodynamics
MECH3002	Heat and Mass Transfer
MECH3003	Mechanical Design 2
MECH3004	Applied Numerical Engineering
MECH3005	Manufacturing Engineering
MECH4001	Product Design Engineering
MECH4002	Energy Sustainable Design
MECH4092	Mechanical Engineering Research Thesis A
MECH4093	Mechanical Engineering Research Thesis B