

Bachelor of Engineering (Honours) Specialisation in Mechanical Engineering

ENTRY REQUIREMENTS

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

Essential units - 100 credit points

Complete each unit below.

ENGG1100 Introduction to Engineering

ENGG1110 Engineering in Balance

ENGG1130 Engineering in Motion

ENGG1140 Fundamentals of Digital Computing

ENGG1150 Foundations of Signals and Circuits

ENGG1160 Programming and Proof

ENGG2100 Engineering Project

ENGG3100 Advanced Engineering Project

ENGG4100 Engineering Professional Practice

ENGG4101 Engineering Thesis Project A

ENGG4099 PACE: Industry Experience - No credit points

Elective Unit - 10 credit points (contains 20)

Complete 10 credit points from the following options.

- Students enrolling in Software Engineering and Mechatronic Engineering Specialisations must enrol in COMP1020.
- Students enrolling in Civil Engineering and Mechanical Engineering Specialisations must enrol in ENGG1120.
- Students enrolling in Electrical and Electronic Engineering Specialisation can select either COMP1020 or ENGG1120.

COMP1020 Software Development Practices

ENGG1120 Engineering with Heat and Fluids

Complementary Option Sets - 60 credit points

Complete 60 credit points from one of the following:

- Environmental Management
- Management and Leadership
- Strategy, Innovation and Entrepreneurship
- Artificial Intelligence
- Cyber Security
- Mathematics
- Engineering Infrastructure
- Engineering Breadth
- Software Development
- Intelligent Systems

Capstone unit - 10 credit points

ENGG4102 Engineering Thesis Project B - 10 credit points

Elective Units - 20 credit points

Complete 20 credit points from any 1000, 2000, 3000 or 4000 level units for which you meet the requisites.

Specialisation in Mechanical Engineering - 120 credit points.

Complete each unit below.

MECH2110 Mechanical Engineering Dynamics

MECH2120 Fluid Mechanics

MECH2130 Design for Mechanical Manufacturing

MECH2140 Mechanics of Materials

MECH3120 Thermodynamics and Heat Transfer

MECH3130 Mechanical Engineering Design

MECH3140 Structural Failure Mechanics

MECH4110 Vibration and Acoustics

MECH4120 Thermosystems Engineering

MECH4130 Advanced Mechanical Engineering Design

MECH4140 Advanced Modelling and Analysis

MTRN3124 Control Systems

Specialisation = 120 Credit Points

Degree = 320 Credit Points

CORE ZONE

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