

Bachelor of Engineering (Honours)

Specialisation in Mechatronic Engineering

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
- HSC Physics, or equivalent.
- HSC Software Design and Development or equivalent.

COURSE STRUCTURE

ESSENTIAL	UNITS: Complete each unit below	60 ср	
ENGG1000	Introduction to Engineering	10 CP	
ENGG1050	Engineering Design	10 CP	
ENGG2000	Engineering Practice	10 CP	
ENGG2050	Engineering Systems and Design Thinking	10 CP	
ENGG3000	Engineering Project Practice	10 CP	
ENGG3050	Engineering Leadership and Entrepreneurship	10 CP	
ENGG4099	PACE: Industry Experience	No CP	
CAPSTONE (JNIT: Complete the capstone unit below	10 ср	
ENGG4001	Professional Practice	10 CP	
	Essential Units Total = 70 Credit	Points	
Flexible zone		40 cp	
Agen of elective units. You can use your flevible zone to			

40cp of elective units. 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.

Options include: Ancient History, Anthropology, Astronomy and Astrophysics, Biology, Biotechnology, Business Administration, Business Analytics, Business Information Systems, Chemistry, Chinese Studies, Creative Writing, Criminology, Critical Indigenous Studies, Cyber Security Governance, Earth and Environmental Sciences, Economics, English, French and Francophone Studies, Gender Studies, Geography, German Studies, Health, Wellbeing and Society, Human Biology, Human Resource Management, Interactive Design, International Business, International Relations, Japanese Studies, Journalism and Non-Fiction Writing, Management and Leadership, Marine Science, Mathematics, Media, Culture and Communications, Modern History, Music Studies, Performing Arts and Entertainment Industries, Physics, Philosophy, Politics, Psychological Science, Public Relations and Social Media, Radio, Podcasting and Audio Media, Screen Practice and Production, Sociology, Spanish and Latin American Studies, Statistical Data Science Strategy, Innovation and Entrepreneurship, and Work, Life and Technology.

Flexible Zone = 40 Credit Points

Spacialisati	on in Machatronia Engine	poring		
Specialisation in Mechatronic Engineering				
•	ll units below.	Each unit is 10 cp		
MATH1010	Calculus and Linear Algeb	ora I		
MATH1020	Calculus and Linear Algeb	ora I		
COMP1000	Introduction to Computer Programming			
MECH1001	Introduction to Mechanical Engineering			
PHYS1510	Engineering Physics			
PHYS1520	Physics for Electrical and Electronic Engineering			
ELEC2070	Linear Circuits and Device	es		
ELEC2005	Electrical and Electronic Systems			
ELEC2040	Signals and Systems			
MATH2055	Engineering Mathematics II			
MECH2003	Mechanical Design 1			
MTRN2060	Introduction to Mechatronics			
ELEC3024	Control Systems			
ELEC3042	Embedded Systems			
MTRN3026	Mechatronic Systems			
MTRN3060	Robotics and Automation			
MTRN4062	Micro Electro Mechanical Systems (MEMS)			
MTRN4066	Advanced Mechatronic Engineering			
MTRN4068	Wireless Mechatronics			
MTRN4092	Mechatronic Engineering Research Thesis A			
MTRN4093	Mechatronic Engineering	Research Thesis B		
	Specialisat	ion = 210 Credit Points		
	Deg	gree = 320 Credit Points		

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