

Enrolment Course Structure

Course Code – EG8.MEC

Course Name – Bachelor of Engineering (Mechanical) (Honours)

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN1003	Materials in Engineering	EX: ENCOR1110 & GPENG1003
	ENGIN1004	Engineering Design and Drafting	EX: ENCOR1010 & GPENG1004
	ENGIN1007	Foundations Of Electrical and Electronic Engineering	
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	COOPC1025	Professional Identity (Engineering)	
	ENGIN1005	Engineering Mechanics	EX: ENCOR1110 & ENCOR1021 & GPENG1005
	MATHS1102	Linear Algebra and Applications	EX: MATHS1005
		Elective	
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN2102	Signals and Systems	PR: MATHS1001 & MATHS1005 CO: MATHS2016
	ENGIN2301	Mechanics of Solids	PR: ENGIN1005 for undergraduate Students only EX: ENCOR2030
	ENGIN2302	Engineering Dynamics	PR: ENGIN1005 EX: ENMEC2001
	MATHS2016	Modelling Continuous Change	PR: MATHS1001 CO: ENGIN2102
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	EX: ENMEC2121 & ENMTX2050
	ENGIN2303	Mechanism and Machine Theory	PR: EENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENMEC2111
	ENGIN2304	Thermofluids	PR: ENGIN1005 & MATHS1001 EX: ENCOR2100
	MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS1001 EX: MATHS2006

Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN3301	Fluid Dynamics	PR: ENGIN2304
	ENGIN3302	Introduction to Vibration Analysis	PR: ENGIN2302 for undergraduate Students only EX: ENMEC3120
	ENGIN3303	Robotics	PR: ENGIN2303 & MATHS3001
	ENGIN3404	System Dynamics and Control	PR: MATHS3001 for undergraduate Students only EX: ENMEC3500 & ENMTX3040
Semester 2			
	COOPC2005 OR COOPC2001	Co-operative Placement (Engineering) Community Impact Project	PR: Minimum 105 credit points EX: BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014
	ENGIN3002	Engineering Design Project	PR: 120cp PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENCIV3360 & ENMEC2120 & ENMEC2121 & ENMEC3250 & ENMTX3800
	ENGIN3304	Thermodynamics	PR: ENGIN2304 for undergraduate Students only
	ENGIN3305	Manufacturing Engineering	PR: ENGIN1003 EX: ENMEC3110
Fourth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN4001	Engineering Project 1	EX: ENCOR4100
	ENGIN5301	Machine System Design	
	ENGIN5302	Modelling and Simulation	PR: ENGIN2301 for undergraduate Students only EX: ENCOR4050
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENGIN4001 or ENCOR4100 EX: ENCOR4200
	ENGIN4301	Machine Dynamics and Vibration	PR: ENGIN3302 or equivalent
	ENGIN4302	Energy Conversion	PR: ENGIN3304 EX: ENMEC4090

Additional Information

This course structure applies to students commencing from 2024. Students who commenced prior to 2024 should refer to the continuing enrolments page.

TEQSA have advised that, in accordance with B1.1.3 of [Higher Education Standards Framework \(Threshold Standards\) 2021](#) all Higher Education Providers are required to show their TEQSA Provider number and Provider Category on all relevant public material. ITS have ensured that our website and email signature templates have been amended to ensure compliance and have provided a knowledge article to assist you to update your signatures. Marketing are working to update the brand library and all social media accounts.

Glossary

Semester: designated teaching period.

PR: Pre-requisite, a unit/s that must be completed prior to undertaking another unit.

CO: Co-requisite, a unit/s that must be completed simultaneously, or prior to, undertaking another unit.

EX: Exclusion, a unit/s that may not be taken.