

Mid-year Enrolment Course Structure

Course Code – EG8.MEC

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

First Year	Unit Code	Unit Name	Unit Rules
Semester 2			
	ENGIN1004	Engineering Design and Drafting	EX: ENCOR1010 & GPENG1004
	ENGIN1005	Engineering Mechanics	EX: ENCOR1110 & ENCOR1021 & GPENG1005
	ENGIN1006	Engineering Computer Modelling	EX: ENCOR1021 & GPENG1006
	MATHS1102	Linear Algebra and Applications	EX: MATHS1005
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN1001	Professional Engineering	EX: ENCOR1005 & GPENG1001
	ENGIN1002	Engineering Physics	EX: ENCOR1021 & ENCOR2100 & GPENG1002
	ENGIN1003	Materials in Engineering	EX: ENCOR1110 & GPENG1003
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	EX: ENMEC2121 & ENMTX2050
	ENGIN2203	Structural Analysis	PR: ENCOR2030 or ENGIN2301 EX: ENCIV2310
	ENGIN2204	Introduction to Geotechnical Engineering	PR: ENGIN2301 EX: ENCIV2330
	MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS1001 EX: MATHS2006
Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN2001	Professional Practice	PR: ENGIN1001 or ENCOR1005 EX: ENCOR3035
	ENGIN2301	Mechanics of Solids	PR: ENGIN1005 or ENCOR1000 or ENCOR1021 EX: ENCOR2030
	ENGIN2302	Engineering Dynamics	PR: ENGIN1005

ENGIN2402	Measurement and Computer Instrumentation	PR: ENGIN1002 or ENCOR1000 or ENCOR1021 EX: ETMEC3260 & ENMTX2020
MATHS2016	Modelling Continuous Change	PR: MATHS1001

Semester 2

ENGIN3001	Engineering Research Methodology and Management	PR: ENGIN1001 or ENCOR1005 EX: ENCOR4010 & ENMTX4060
ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENCIV3360 & ENMEC2120 & ENMEC3250 & ENMTX3800
ENGIN3304	Thermodynamics	PR: ENGIN2304
ENGIN3305	Manufacturing Engineering	PR: ENGIN1003 EX: ENMEC3110

Fourth Year	Unit Code	Unit Name	Unit Rules
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Semester 1

ENGIN3301	Fluid Dynamics	PR: ENGIN2304
ENGIN3302	Introduction to Vibration Analysis	PR: ENGIN2302
ENGIN3303	Robotics	PR: ENGIN2303 & MATHS3001
ENGIN3404	System Dynamics and Control	PR: MATHS3001 or MATHS3040 EX: ENMEC3500 & ENMTX3040

Semester 2

ENGIN4002	Engineering Project 2	PR: ENGIN4001 or ENCOR4100 EX: ENCOR4200
ENGIN4302	Energy Conversion	PR: ENGIN3304
ENGIN5304	Advanced Robotics	EX: ENMEC7080

Fifth Year	Unit Code	Unit Name	Unit Rules
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Semester 1

ENGIN4001	Engineering Project 1	EX: ENCOR4100
ENGIN4301	Machine Dynamics Vibration	PR: ENGIN3302
ENGIN5302	Modelling and Simulation	PR: MATHS3001 or MATHS3040 & ENGIN2301 EX: ENCOR4050

Additional Information

This program structure applies to mid-year entry students.

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 course/s that must be completed prior to undertaking another course.

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

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