

Enrolment Program Structure

Program Code – EG8.MEC

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

First Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN1001	Professional Engineering	EX: ENCOR1005
	ENGIN1002	Engineering Physics	EX: ENCOR1021 & ENCOR2100
	ENGIN1003	Materials in Engineering	EX: ENCOR1110
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	ENGIN1004	Engineering Design and Drafting	EX: ENCOR1010
	ENGIN1005	Engineering Mechanics	EX: ENCOR1110 & ENCOR1021
	ENGIN1006	Engineering Computer Modelling	EX: ENCOR1021
	MATHS1102	Linear Algebra and Applications	EX: MATHS1005
Second Year	Course Code	Course Name	Course 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			
	ENGIN2002	Engineering Project Management and Sustainable Design	PR: ENGIN1001 or ENCOR1005 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	Course Code	Course Name	Course Rules
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			
	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	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN4001	Engineering Project 1	PR: ENGIN3001 EX: ENCOR4100
	ENGIN4301	Machine Dynamics Vibration	PR: ENGIN3302
	ENGIN5302	Modelling and Simulation	PR: MATHS3001 or MATHS3040 & ENGIN2301 EX: ENCOR4050
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENGIN4001 or ENCOR4100 EX: ENCOR4200
	ENGIN4302	Energy Conversion	PR: ENGIN3304
	ENGIN5304	Advanced Robotics	EX: ENMEC7080

Additional Information

This program structure applies to students commencing from 2023. Students who commenced prior to 2023 should refer to the continuing enrolments page.

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.