

Enrolment Program Structure

Program Code – EG8.MEC

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

Course Code	Course Name	Course Rules
First Year Semester 1		
ENGIN1001	Professional Engineering	PR: Nil EX: ENCOR1005
ENGIN1002	Engineering Physics	PR: Nil EX: ENCOR1021 and ENCOR2100
ENGIN1003	Materials in Engineering	PR: Nil EX: ENCOR1110
MATHS1001	Modelling and Change (Introductory Level)	PR: Nil
First Year Semester 2		
ENGIN1004	Engineering Design and Drafting	PR: Nil EX: ENCOR1010
ENGIN1005	Engineering Mechanics	PR: Nil EX: ENCOR1110 and ENCOR1021
ENGIN1006	Engineering Computer Modelling	PR: Nil EX: ENCOR1021
MATHS1005	Secrets of the Matrix	PR: Nil
Second Year 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 or ENCOR1000 or ENCOR1021
ENGIN2402	Measurement and Computer Instrumentation	PR: ENGIN1002 or ENCOR1000 or ENCOR1021 EX: ETMEC3260 and ENMTX2020
MATHS2016	Modelling Continuous Change	PR: MATHS1001
Second Year Semester 2		
ENGIN2002	Engineering Project Management and Sustainable Design	PR: ENGIN1001 or ENCOR1005 EX: ENMEC2121 and ENMTX2050
ENGIN2303	Mechanism & Machine Theory	PR: ENGIN1005 or ENCOR1000 or ENCOR1021 EX: ENMEC2111
ENGIN2304	Thermofluids	PR: ENGIN1005 or ENCOR1000 or ENCOR1021
MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS2001 EX: MATHS2006
Third Year Semester 1		
ENGIN3301	Fluid Dynamics	PR: ENGIN2304 or ENCOR2100 EX: ENMEC3051
ENGIN3302	Introduction to Vibration Analysis	PR: ENGIN2302 or ENMEC2001 EX: ENMEC3120
ENGIN3303	Robotics	PR: ENGIN2302 or ENMEC2001 EX: ENMEC4160
ENGIN3404	System Dynamics and Control	PR: MATHS3001 or MATHS3040 EX: ENMEC3500 or ENMTX3040

Course Code	Course Name	Course Rules
Third Year Semester 2		
ENGIN3001	Engineering Research Methodology and Management	PR: ENGIN1001 or ENCOR1005 EX: ENCOR4010 and ENMTX4060
ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENCIV3360 and ENMEC2120 and ENMEC2121 and ENMEC3250 and ENMTX3800
ENGIN3304	Thermodynamics	PR: ENGIN2304 or ENCOR2100 EX: ENMEC3070
ENGIN3305	Manufacturing Engineering	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENMEC3110
Fourth Year Semester 1		
ENGIN4001	Engineering Project 1	PR: ENGIN3001 EX: ENCOR4100
ENGIN4301	Machine Dynamics Vibration	PR: ENGIN3303 or ENMEC4160 EX: ENMEC4060
ENGIN5302	Modelling and Simulation	PR: MATHS3001 or MATHS3040 and ENGIN2301 EX: ENCOR4050
Fourth Year Semester 2		
ENGIN4002	Engineering Project 2	PR: ENGIN4001 or ENCOR4100 EX: ENCOR4200
ENGIN5304	Advanced Robotics	PR: Nil EX: ENMEC7080
ENGIN4302	Energy Conversion	PR: ENGIN3304 or ENMEC3071 EX: ENMEC4090

Additional Information

This structure applies to all students.

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.

Essential Equipment

You are required to obtain specific PPE for your program, and will not be able to commence lab classes without this essential safety equipment.

- ✓ Safety glasses
- ✓ Steel-cap safety boots

The required PPE can be obtained from any sources, however it **MUST** be available for commencement of classes. The University has a local preferred supplier (details below) for the supply of PPE at reduced prices. Students are able to see them in person, email or fax to order the PPE at special university prices. Please find the reduced cost voucher form below.

For further information contact Hip Pocket Work Wear and Safety directly at 1265 Howitt St, Wendouree VIC 3355, via telephone (03) 5339 5446, email: corporate@hippocketballarat.com.au or fax: (03) 5339 6504.