Federation University | Institute of Innovation, Science and Sustainability

Mid-year Enrolment Course Structure

Course Code – EG8.EIE

Course Name – Bachelor of Engineering (Electrical and Information Engineering) (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	E**X**: ENMEC2121 & ENMTX2050
	ENGIN2103	Principles of Renewable Energy Sources	**PR**: ENGIN1002
	ENGIN2404	Electrical and Electronic Drives and Actuators	**PR**: ENCOR1000 or ENCOR1021 or ENGIN1002 **EX**: ENMTX2040
	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
	ENGIN2102	Signals and Systems	**PR:** MATHS1001 & MATHS1005 **CO:** MATHS2016
	ENGIN2105	Digital Logic and Electronic Systems	

	ITECH1103	Big Data and Analytics	
	MATHS2016	Modelling Continuous Change	**PR**: MATHS1001
Semester 2			
	ENGIN3001	Engineering Research Methodology and Management	**PR:** ENGIN1001 or ENCOR1005 **EX:** ENCOR4010 & ENMTX4060
	ENGIN3103	Power System Protection	
	ENGIN3104	Digital Communication Principles	
	ENGIN3405	Digital Imaging and Artificial Intelligence	**PR:** MATHS3001 or MATHS3040 **EX:** ENMTX3030

Fourth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN3101	Power Electronics	**PR**: ENGIN1002
	ENGIN3102	Power Systems Analysis	**PR:** ENGIN2104
	ENGIN3401	Engineering Computer Application and Interactive Modelling	**PR:** ENCOR1021 or ENGIN1006 **EX:** ENMTX3010 & ITECH1000
	ENGIN3404	System Dynamics and Control	**PR**: MATHS3001 or MATHS3040 **EX**: ENMEC3500 & ENMTX3040
Semester 2			
	ENGIN4002	Engineering Project 2	**PR**: ENGIN3001 **EX**: ENCOR4200
	ENGIN4102	Power Electronic Application to Renewable Energy Systems	**PR**: ENGIN3101
	ENGIN4402	Digital and Embedded Systems	**PR**: ENGIN2401 or ENMTX2010 & ENGIN3401 or ENMTX3010 **EX**: ENMTX3050

Fifth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN4001	Engineering Project 1	**EX:** ENCOR4100
	ENGIN4101	Electrical Power Distribution Engineering	**PR**: ENGIN3102
	ENGIN5102	Mirco-Grid and Energy Storage Systems	**PR**: ENGIN3102

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.