

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 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			
	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			
	ENGIN2001	Professional Practice	PR: ENGIN1001 or ENCOR1005 EX: ENCOR3035
	ENGIN2101	Digital Logic and Design	PR: ENGIN1002
	ENGIN2102	Signals and Systems	PR: MATHS1001 & MATHS1005 CO: MATHS2016
	ITECH1103	Big Data and Analytics	
	MATHS2016	Modelling Continuous Change	PR: MATHS1001
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	EX: ENMEC2121 & ENMTX2050
	ENGIN2103	Principles of Renewable Energy Sources	PR: ENGIN1007 for undergraduate Students only
	ENGIN2404	Electrical and Electronic Drives and Actuators	PR: ENCOR1000 or ENCOR1021 or ENGIN1002 EX: ENMTX2040
	MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS2001 EX: MATHS2006

Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN3101	Power Electronics	PR: ENGIN1007 for undergraduate Students only
	ENGIN3102	Power Systems Analysis	PR: ENGIN2104 or ENGIN2404 for undergraduate Students only
	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			
	ENGIN3001	Engineering Research Methodology and Management	PR: ENGIN1001 or ENCOR1005 EX: ENCOR4010 & ENMTX4060
	ENGIN3103	Power System Protection	
	ENGIN3104	Digital Communication Principles	PR: ENGIN2102
	ENGIN3405	Digital Imaging and Artificial Intelligence	PR: MATHS3001 or MATHS3040 EX: ENMTX3030
Fourth 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	
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200
	ENGIN4102	Power Electronic Application to Renewable Energy Systems	PR: ENGIN3101
	ENGIN4402	Digital and Embedded Systems	PR: ENGIN2105 or ENGIN2401 EX: ENMTX3050

Additional Information

This course structure applies to continuing students who commenced in 2023 or prior.

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.