

## **Enrolment Program Structure**

## Program Code – EG8.EIE

**Program Name – Bachelor of Engineering (Electrical and Information Engineering) (Honours)** 

First Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN1001	Professional Engineering	EX: ENCOR1005
	ENGIN1002	Engineering Physics	EX: ENCOR1021 and ENCOR210
	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 and ENCOR102
	ENGIN1006	Engineering Computer Modelling	EX: ENCOR1021
	MATHS1005	Secrets of the Matrix	
Second Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN2001	Professional Practice	PR: ENGIN1001 or ENCOR1005 EX: ENCOR3035
	ENGIN2101	Digital Logic and Design	<b>PR:</b> ENGIN1002
	ENGIN2102	Signals and Systems	<b>PR:</b> MATHS1001 and MATHS100 <b>EX</b> : MATHS2016
	ITECH1103	Big Data and Analytics	
	MATHS2016	Modelling Continuous Change	<b>PR:</b> MATHS1001
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	PR: ENGIN1001 or ENCOR1005 EX: ENMEC2121 and ENMTX205
	ENGIN2103	Principles of Renewable Energy Sources	<b>PR</b> : ENGIN1002
	ENGIN2404	Electrical and Electronic Drives and Actuators	<b>PR</b> : ENGIN1002
	MATHS3001	Modelling and Change (Advanced Level)	<b>PR</b> : MATHS2001 <b>EX:</b> MATHS2006
Third Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN3101	Power Electronics	PR: ENGIN1002



	ENGIN3102	Power Systems Analysis	<b>PR:</b> ENGIN2104
	ENGIN3401	Engineering Computer Application and Interactive Modelling	PR: ENGIN1006 EX: ITECH1000
	ENGIN3404	System Dynamics and Control	PR: MATHS3001 or MATHS3040 EX: ENMEC3500 and ENMTX3040
Semester 2			
	ENGIN3001	Engineering Research Methodology and Management	PR: ENGIN1001 or ENCOR1005 EX: ENCOR4010 and ENMTX4060
	ENGIN3103	Power System Protection	<b>PR:</b> ENGIN2104
	ENGIN3104	Digital Communication Principles	PR: ENGIN2102
	ENGIN3405	Digital Imaging and Artificial Intelligence	<b>PR:</b> MATHS3001 or MATHS3040 <b>EX:</b> ENMTX3030
Fourth Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN4001	Engineering Project 1	PR: ENGIN3001 EX: ENCOR4100
	ENGIN4101	Electrical Power Distribution Engineering	<b>PR:</b> ENGIN3102
	ENGIN5102	Mirco-Grid and Energy Storage Systems	<b>PR:</b> ENGIN3102
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENGIN4001 or ENCOR4100 EX: ENCOR4200
	ENGIN4102	Power Electronic Application to Renewable Energy Systems	<b>PR:</b> ENGIN3101
	ENGIN4402	Digital and Embedded Systems	PR: ENGIN2401 or ENMTX2010 and ENGIN3401 or ENMTX3010 EX: ENMTX3050

## **Additional Information**

This program 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.

