

## Enrolment Course Structure

Course Code – EN8.EIE

Course Name – Bachelor of Engineering (Electrical Engineering) (Honours)

First Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	ENGRG1001	Computational Skills for Engineers	
	ENGRG1002	Physics for Engineers 1	
	ENGRG1003	Engineering Design 1	
	MATHS1100	Applied Mathematics 1	<b>EX:</b> MATHS1001
<b>Semester 2</b>			
	COOPE1001	Professional Identity (Engineering)	
	ENGRG1004	Physics for Engineers 2	<b>EX:</b> ENGIN1002 & ENGIN1003
	ENGRG1005	Engineering Design 2	<b>EX:</b> ENGIN1004 & ENGIN3002
	MATHS2100	Applied Mathematics 2	<b>EX:</b> MATHS1005 & MATHS1102
Second Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	ENGRG2201	Digital Logic and Electronic Systems	<b>EX:</b> ENGIN2105
	ENGRG2202	Power Electronics	<b>PR:</b> ENGRG1004 <b>EX:</b> ENGIN3101
	MATHS3100	Applied Mathematics 3	<b>PR:</b> MATHS1100 <b>EX:</b> MATHS3001
		Minor Unit 1	
<b>Semester 2</b>			
	ENGRG2203	Communication Engineering	<b>PR:</b> ENGRG1004 <b>EX:</b> ENGIN3104
	ENGRG2204	Renewable Energy Principles	<b>PR:</b> ENGRG1004 <b>EX:</b> ENGIN2103
	ENGRG2205	Electrical Machines Fundamentals	<b>EX:</b> ENGIN2404
		Minor Unit 2	

Third Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	COOPE2011	Cooperative Placement 1 (Engineering)	<b>PR:</b> COOPE1001 & At least 105 credit points from ENGRG subject-area at any level <b>EX:</b> BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014
	ENGRG3201	Power System Analysis	<b>PR:</b> ENGRG2205 <b>EX:</b> ENGIN3102
		Minor Unit 3	
<b>Semester 2</b>			
	COOPE2012	Cooperative Placement 2 (Engineering)	<b>PR:</b> COOPE1001 & At least 105 credit points from ENGRG subject-area at any level
	ENGRG3202	Power System Protection	<b>PR:</b> ENGRG3201 <b>EX:</b> ENGIN3103
		Minor Unit 4	
Fourth Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	ENGRG4201	Control System Engineering	<b>PR:</b> ENGRG1004 <b>EX:</b> ENGIN3404
	ENGRG4001	Engineering Design Project	<b>PR:</b> At least 300 credit points <b>EX:</b> ENGIN3002
	ENGRG4002	Engineering Capstone Project 1	<b>PR:</b> At least 300 credit points <b>EX:</b> ENGIN4001
		Specialisation Elective Unit 1	
<b>Semester 2</b>			
	ENGRG4003	Engineering Capstone Project 2	<b>PR:</b> ENGRG4002 <b>EX:</b> ENGIN4002
	ENGRG9206	Microgrids and Energy Storage System	<b>PR:</b> ENGRG2204 <b>EX:</b> ENGIN5102
		Specialisation Elective Unit 2	

#### Specialisation Elective Unit 1

ENGRG9201 Digital and Embedded Systems

ENGRG9204 Electrical Power Distribution Engineering

ENGRG9205 IoT in Smart Energy Systems

#### Specialisation Elective Unit 2

ENGRG9202 Electrical Demand, Forecasting and Management

ENGRG9203 Advanced Control System Engineering

ENGRG9207 Power Electronic Application to Renewable Energy

### Additional Information

This course structure applies to students commencing from 2025. Students who commenced prior to 2025 should refer to the continuing enrolments page.

*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 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.