

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 | | | |
| | ENGIN1003 | Materials in Engineering | EX: ENCOR1110 & GPENG1003 |
| | ENGIN1004 | Engineering Design and Drafting | EX: ENCOR1010 & GPENG1004 |
| | ENGIN1007 | Foundations Of Electrical and Electronic Engineering | EX: ENGIN1002 |
| | MATHS1001 | Modelling and Change (Introductory Level) | |
| Semester 2 | | | |
| | COOPC1025 | Professional Identity (Engineering) | |
| | ENGIN1005 | Engineering Mechanics | EX: ENCOR1110 & ENCOR1021 & GPENG1005 |
| | MATHS1102 | Linear Algebra and Applications | EX: MATHS1005 |
| | | Elective | |
| Second Year | Unit Code | Unit Name | Unit Rules |
| Semester 1 | | | |
| | ENGIN2102 | Signals and Systems | PR: MATHS1001 & MATHS1005 CO: MATHS2016 |
| | ENGIN2105 | Digital Logic and Electronic Systems | EX: ENGIN1002 |
| | ITECH1103 | Big Data and Analytics | EX: ITECH5103 & GPSIT1103 |
| | MATHS2016 | Modelling Continuous Change | PR: MATHS1001 EX: MATHS3016 |
| Semester 2 | | | |
| | ENGIN2002 | Engineering Project Management and Sustainable Design | EX: ENMEC2121 & ENMTX2050 |
| | ENGIN2103 | Principles of Renewable Energy Sources | PR: ENGIN1007 or 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: MATHS1001 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 for undergraduate Students only EX: ENMEC3500 & ENMTX3040 |
| Semester 2 | | | |
| | COOPC2005 OR COOPC2001 | Co-operative Placement (Engineering) Community Impact Project | PR: Minimum 105 credit points EX: BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014 PR: 120cp |
| | ENGIN3103 | Power System Protection | PR: ENGIN2104 or ENGIN2404 |
| | 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 2024.

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.