COURSE PLANNER

Bachelor of Engineering (Honours) (Electrical and Electronic)

BH-EEE

Semester 1 | 2022

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

Year One

Semester 1	Feb/Mar 2022	
Unit Code	Unit Name	Pre-requisites
ENG10003	Mechanics of Structures	Nil
ENG10004	Digital and Data Systems	Nil
PHY10004	Electronics and Electromagnetism	Nil
MTH10013	Linear Algebra and Applications	Nil
Semester 2	Aug/Sept 2022	
MTH10012	Calculus and Applications	Nil
ENG10001	Engineering, Design and Innovation	Nil
ENG10002	Engineering Materials	Nil
PHY10001	Energy and Motion	Nil

Year Two

Semester 3	Feb/Mar 2023	
Unit Code	Unit Name	Pre-requisites
COS10022&	Introduction to Data Science	Nil
EEE20002	Circuits and Systems	MTH10012, MTH10013 & PHY10004
EEE20001	Digital Electronics Design	Nil
SWE20004	Technical Software Development	ENG10004
Semester 4	Aug/Sept 2023	
EEE20003	Embedded Microcontrollers	EEE20001 & SWE20004
EEE20004	Analogue Electronics 1	EEE20002
EEE20005	Electrical Machines	EEE20002 & MTH10012
MTH20014	Mathematics 3B	MTH10012 & MTH10013

Year Three

Semester 5	Feb/Mar 2024	
Unit Code	Unit Name	Pre-requisites
EEE30001@	Analogue Electronics 2	EEE20004
EEE30002@	Electrical Power Systems	EEE20005
EEE40002@	Integrated Circuit Design	EEE20001
COS20083&	Advance Data Analytics	Nil
EAT20008#	Professional Experience in Engineering	Introductory Seminar
Semester 6	Aug/Sept 2024	
EEE30004@	Digital Signal Processing	MTH20014 & EEE20002
EEE30005@	Electrical Integrated Design Project	EEE30002
EEE40005@	Power Electronics	EEE20005
TNE30003	Communications Principles	MTH10012 & MTH10013

Year Four

Semester 7	Feb/Mar 2025	
Unit Code	Unit Name	Pre-requisites
ENG40001@	Final Year Research Project 1	287.5 credit points
PHY40001@	Electromagnetic Waves	MTH20014
RME30002@	Control and Automation	PHY10004 & MTH20014
EEE80015&	Renewable Energy	100 credit points
Semester 8	Aug/Sept 2025	
ENG40002@	Final Year Research Project 2	ENG40001
COS30018&	Intelligent Systems	SWE20004
MME30001@	Engineering Management 1	100 credit points
EEE40007@	Power System Operation and Control	EEE30002

Notes

\#   EAT20008 Professional Experience in Engineering is compulsory for all engineering students and must be taken before the last semester of study as part of EAC's requirement. Introductory Seminar will be conducted in week 4 of normal semester.

@   Honours merit units.

&   Recommended Elective units [Industry 4.0]. You may choose other approved elective units from the published elective list for Electrical and Electronic. Enrolment in the selected elective units are subject to:

- Discipline Leader Approval
- No timetable clash between selected elective units and core / major units
- Seat availability in the selected electives
- Selected elective units are offered in the current semester

How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour coded to assist you with mapping out your studies.

Course Information

Each unit is equivalent to 12.5 credit points. To qualify for the award of this course, students must complete 33 units (400 credit points) comprising of:

12 Core Units
150 credit points
A set of compulsory units you MUST complete as part of your Course.

16 Electrical and Electronic Major Units
200 credit points
A set of compulsory units you MUST complete as part of your Course.

4 Recommended Elective Units
50 credit points
A combination of elective units, or a Minor.

1 Industry Placement Unit
0 credit point
A compulsory, not-for-credit unit.

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Ministry of Education requires that all NEW Cohorts pursuing Degree course (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.
- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must attempt all coursework and final exam as a prerequisite for the award of their degree.