COURSE PLANNER



Bachelor of Engineering (Honours) (Electrical and Electronic)

BH-EEE

Intake: Aug/Sept 2024

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 :	L Aug/Sept 2024		
Unit Code	Unit Name	Pre-requisites	
ENG10001	Humanitarian Engineering Design Project	Nil	
COS10009	Introduction to Programming	Nil	
MTH10012	Calculus and Applications	Nil	
PHY10001	Energy and Motion	Nil	
MPU3273	Nil		
Semester 2	2 Feb/Mar 2025		
COS10025	Technology in an Indigenous Context Project	Nil	
MTH10013	Linear Algebra and Applications	Nil	
ENG10002	Engineering Materials	Nil	
ENG10003	Engineering Mechanics	Nil	
MPU3193	Philosophy and Current Issues (Malaysian and International Students)	Nil	
Winter Term June/July 2025			
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil	

Year Two

Semester 3	Aug/Sept 2025	
Unit Code	Unit Name	Pre-requisites
ENG20010	Engineering Technology Design Project	Nil
MTH20017	Mathematical Methods and Statistics for Engineering	MTH10012 & MTH10013
Elective 1	Elective 1	
Elective 2	Elective 2	
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
MPU3143	Malay Language Communication 2 (International Students Only)	Nil
Semester 4	Feb/Mar 2026	
ENG20009	Engineering Technology Inquiry Project	Nil
EEE20006	Circuits & Electronics 1	MTH10013 & COS10025
TNE20003	Internet and Cybersecurity for Engineering Applications	Nil
COS40007	Artificial Intelligence for Engineering	100 CPs & COS10009

Year Three

Semester 5 Aug/Sept 2026				
Unit Code	Unit Name	Pre-requisites		
ENG40011	Engineering Technology Innovation Project®	Nil		
EEE20005	Electrical Machines	MTH10012 & EEE20006		
EEE20013	Power Protection [®]	EEE20006		
EEE40016	Design of Smart Power Grids [®]	200 CPs		
EAT20008	Professional Experience in Engineering [#]	Introductory Seminar		
Semester 6 Feb/Mar 2027				
ENG30002	Engineering Technology Sustainability Project®	Nil		
EEE30002	Electrical Power Systems [®]	EEE20005		
RME30002	Control and Automation [®]	PHY10004/EEE20006 &		
		MTH20014/MTH20017		
Elective 3	Elective 3			

Year Four

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Semester 7	Aug/Sept 2027			
Unit Code	Unit Name	Pre-requisites		
ENG40007	Engineering Technology Project A [®]	250 CPs		
EEE40005	Power Electronics [®]	EEE20005		
EEE40007	Power System Operation and Control®	EEE30002		
TNE30024	Deploying Secure Engineering Applications Online	TNE20003		
Semester 8	Feb/Mar 2028			
ENG40008	Engineering Technology Project B [®]	ENG40007		
EEE40015	Renewable Energy [®]	EEE30002		
EEE30006	Hydrogen and Energy Storage [®]	EEE30002 &		
		EEE20013/EEE20004		
PHY40001^	Electromagnetic Waves	MTH20017		

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
- ^ You must take this unit to fulfill EAC's requirements

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

To qualify for the award of this course, students must complete 33 units (400 credit points) comprising of:

10 Core Units

125 credit points

A set of compulsory units you MUST complete as part of your Course.

18 Electrical and Electronic Major Units

225 credit points

A set of compulsory units you MUST complete as part of your Course.

4 Elective Units

50 credit points

A combination of elective units

1 Industry Placement Unit

0 credit point

A compulsory, not-for-credit unit

General Studies/Mata Pelajaran Umum 0 credit points

- * Compulsory units to complete as a prerequisite to graduate (see statement below)
- * Advisable to enrol in Year One
- * Email ltu@swinburne.edu.my for queries

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 take and pass the units as a prerequisite for the award of their degree

Note: Semester 1 refers to Feb/Mar semester; Semester 2 refers to Aug/Sep semester

List of Recommended Electives for BH-EEE					
Unit Code	Unit Name	Pre-requisites	Offered in		
TNE10006	Networks and Switching	Nil	Semester 1 & 2		
COS10022	Data Science Principles	Nil	Semester 1 & 2		
TNE10005	Network Administration	Nil	Semester 1 only		
COS10005	Web Development	Nil	Semester 2 only		
RME40003	Robot Systems Design	250 CPs	Semester 1 only		
COS20007	Object Oriented Programming	COS10009/SWE20004	Semester 1 & 2		
EEE40017	Machine Vision	EEE20006 & MTH20017	Semester 2 only		
EEE40002	Integrated Circuit Design	EEE20001 or ENG20009	Semester 1 only		
RME30003	Robotic Control	RME30002	Semester 2 only		