COURSE PLANNER

Bachelor of Engineering (Honours) (Mechanical) BH-EME

Semester 1 | 2023

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 2023					
	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			
	MPU3193	Philosophy and Current Issues	Nil			
	WII 03133	(Malaysian and International Students)				
	Winter Term J	une 2023				
		Bahasa Kebangsaan A				
	MPU3212	(Malaysian students who do not have SPM	Nil			
		Bahasa Melayu credit)				
Semester 2 Aug/Sept 2023						
	COS10025	Technology in an indigenous Context	Nil			
		Project				
	ENG10002	Engineering Materials	Nil			
	ENG10003	Engineering Mechanics	Nil			
	MTH10013	Linear Algebra and Applications	Nil			
	MPU3183	Penghayatan Etika dan Peradaban	Nil			
	WII 05 105	(Malaysian Students Only)	INII			
	MPU3143	Malay Language Communication 2	Nil			
		(International Students Only)				

Year Two

Semester 3	Feb/Mar 2024				
Unit Code	Unit Name	Pre-requisites			
MEE20001	Thermodynamics	PHY10001			
MEE20004	Structural Mechanics	ENG10003			
MEE20007	Design and Product	ENG10001			
	Visualisation Project				
MTH20010	Statistics and Computation	MTH10013 & MTH10012			
	for Engineering				
Semester 4 Aug/Sept 2024					
MEE20003	Fluid Mechanics 1: Forces	MTH10013 & MTH10012			
	and Energy				
MEE20005	Materials Processing and	ENG10002			
	Machining				
MEE20006	Engineering Dynamics	MTH10013 & MTH10012 &			
		PHY10001			
MME30002 *	Engineering Management	100 credit points			
	Project				

Year Three

Semester 5 Feb/Mar 2025			
Unit Code	Unit Name	Pre-requisites	
MEE20008	Vibration, Data Analysis and Data	MTH10012 & MTH10013	
	Decomposition		
MEE30001 *	Manufacturing Engineering	MEE20005	
MEE30002 *	Control Engineering	MTH20011	
MEE30005 *	Machine Design Project	MEE20004	
EAT20008 #	Professional Experience in Engineering	Introductory Seminar	
Semester 6 A	ug/Sept 2025		
MEE30004 *	Solid Mechanics	MEE20004	
MEE40001 *	Heat Transfer	MTH20010	
MEE40010 *	Integrated Engineering	MEE30005	
	Design Project		
PEH20004	Built and Sustainable Communities	Nil	



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) in addition of the General Studies/Mata Pelajaran Umum, comprising of:

10 Core Units

125 credit points

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

17 Mechanical Major Units

212.5 credit points

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

5 Elective Units

62.5 credit points

A combination of elective units or a Minor package.

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
- * Advisable to enrol in Year One
- * Email <u>ltu@swinburne.edu.my</u> for queries

All commencing students of Master, Degree, Diploma and Foundation programs 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 program (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

Year Four

Semester 7	-eb/Mar 2026			
Unit Code	Unit Name	Pre-requisites		
ENG40005 *	Final Year Capstone Project 1	287.5 credit points		
MEE40003 *	Machine Dynamics	MEE20006		
RME40003	Robot System Design	250 credit points		
MEE40050	Introduction to Building Services	200 credit points		
	Engineering			
Semester 8 Aug/Sept 2026				
ENG40006 *	Final Year Capstone Project 2	ENG40005		
MEE40004 *	Fluid Mechanics 2:	MEE20003		
	Machine, Supersonics and			
	Modelling			
MEE40011 *	Renewable Energy and	Nil		
	Hydrogen Technologies			
MEE40051	Heating, Ventilation, and Air	MEE20001 & MEE20003		
	Conditioning			
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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.