

# COURSE PLANNER

## Bachelor of Engineering (Honours) (Mechanical)

### BB-EME

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
MTH10013	Linear Algebra and Applications	Nil
PHY10004	Electronics and Electromagnetism	Nil
Semester 2   Aug/Sept 2022		
ENG10001	Engineering, Design and Innovation	Nil
ENG10002	Engineering Materials	Nil
MTH10012	Calculus and Applications	Nil
PHY10001	Energy and Motion	Nil

### Year Two

Semester 3   Feb/Mar 2023		
Unit Code	Unit Name	Pre-requisites
MEE20002	Computer Aided Engineering Mechanical	ENG10001
MEE20004	Structural Mechanics	ENG10003
MEE20001	Thermodynamics	PHY10001
MTH20010	Mathematics 3A	MTH10013 & MTH10012
Semester 4   Aug/Sept 2023		
MTH20011	Mathematics 4A	MTH10013 & MTH10012
MEE20005	Materials & Manufacturing 1	ENG10002
MEE20003	Fluid Mechanics 1	MTH10013 & MTH10012
MEE20006	Machine Dynamics 1	MTH10013 & MTH10012 & PHY10001

### Year Three

Semester 5   Feb/Mar 2024		
Unit Code	Unit Name	Pre-requisites
MEE30003 *	Machine Design	MEE20004
MEE30002 *	Control Engineering	MTH20011
MEE30001 *	Materials and Manufacturing 2	MEE20005
MME30001 *	Engineering Management 1	100 credit points
EAT20008	Professional Experience in Engineering <sup>#</sup>	Introductory Seminar
Semester 6   Aug/Sept 2024		
MEE40002 *	Mechanical Systems Design	MEE30003
MEE40001 *	Heat Transfer	MTH20010
MEE30004 *	Solid Mechanics	MEE20004
SWE20004 **	Technical Software Development	ENG10004

### Year Four

Semester 7   Feb/Mar 2025		
Unit Code	Unit Name	Pre-requisites
ENG40001 *	Final Year Research Project 1	287.5 credit points
MEE40003 *	Machine Dynamics 2	MEE20006
COS10022 **	Introduction to Data Science	Nil
MEE40050 **	Introduction to Building Services Engineering	200 credit points
Semester 8   Aug/Sept 2025		
ENG40002 *	Final Year Research Project 2	ENG40001
MEE40004 *	Fluid Mechanics 2	MEE20003
MME40001 *	Engineering Management 2	100 credit points
MEE40051 **	Heating, Ventilation, and Air Conditioning	MEE20001 & MEE20003

#### 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.

#### 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 Mechanical 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 package.

**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