

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

### Recommended Study Sequence (August Intake) 2021

Year	Semester/Date	Subject		Prerequisites
		Unit Code	Unit of Study Title	
1	1 (Aug 2021)	ENG10003	Mechanics of Structures	Nil
		ENG10004	Digital and Data Systems	Nil
		MTH10013	Linear Algebra and Applications	Nil
		PHY10004	Electronics and Electromagnetism	Nil
	2 (Mar 2022)	ENG10001	Engineering, Design and Innovation	Nil
		ENG10002	Engineering Materials	Nil
		MTH10012	Calculus and Applications	Nil
		PHY10001	Energy and Motion	Nil
2	3 (Sept 2022)	MTH20011	Mathematics 4A	MTH10013 & MTH10012
		MEE20005	Materials & Manufacturing 1	ENG10002
		MEE20003	Fluid Mechanics 1	MTH10013 & MTH10012
		MEE20006	Machine Dynamics 1	MTH10013
	4 (Mar 2023)	MEE20002	Computer Aided Engineering Mechanical	ENG10001
		MEE20004	Structural Mechanics	ENG10003
		MEE20001	Thermodynamics	PHY10001
		MTH20010	Mathematics 3A	MTH10013 & MTH10012
3	5 (Sept 2023)	MEE40001	Heat Transfer	MTH20010
		MEE30004	Solid Mechanics	MEE20004
		MME30001	Engineering Management 1	100 CPS
		COS10022	Introduction to Data Science	Nil
	EAT20008	EAT20008	Professional Experience in Engineering*	EAT20008 Introductory Seminar
	6 (Mar 2024)	MEE30003	Machine Design	MEE20004
		MEE30002	Control Engineering	MTH20011
MEE30001		Materials and Manufacturing 2	MEE20005	
		MME40001	Engineering Management 2	100 CPS
4	7 (Sept 2024)	ENG40001	Final Year Research Project 1	287.5 CPS
		MEE40004	Fluid Mechanics 2	MEE20003
		MEE40002	Mechanical Systems Design	MEE30003
		MEE40051	Heating, Ventilation, and Air Conditioning	MEE20001 & MEE20003
	8 (Mar 2025)	ENG40002	Final Year Research Project 2	ENG40001
		MEE40003	Machine Dynamics 2	MEE20006
		SWE20004	Technical Software Development	ENG10004
		MEE40050	Introduction to Building Services Engineering	200 CPS

\*EAT20008 Professional Experience in Engineering is compulsory for all students. It MUST be taken before the last semester of study. EAT20008 Introductory Seminar is conducted at the beginning of every semester.

**CORE UNITS** - A set of compulsory units you MUST complete as part of your Course.

**MAJOR UNITS** - A structured set of 16 units or 200 credit points in a field of study specific to your course.

**Prescribed Elective Package**

**INDUSTRY 4.0 UNITS**