

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

### Recommended Study Sequence (March Intake) 2021

Year	Semester/Date	Subject		Prerequisites
		Unit Code	Unit of Study Title	
1	1 (Mar 2021)	ENG10003	Mechanics of Structures	Nil
		ENG10004	Digital and Data Systems	Nil
		MTH10013	Linear Algebra and Applications	Nil
		PHY10004	Electronics and Electromagnetism	Nil
	2 (Aug 2021)	ENG10001	Engineering, Design and Innovation	Nil
		ENG10002	Engineering Materials	Nil
		MTH10012	Calculus and Applications	Nil
		PHY10001	Energy and Motion	Nil
2	3 (Feb 2022)	MEE20002	Computer Aided Engineering Mechanical	ENG10001
		MEE20004	Structural Mechanics	ENG10003
		MEE20001	Thermodynamics	PHY10001
		MTH20010	Mathematics 3A	MTH10013 & MTH10012
	4 (Sept 2022)	MEE20005	Materials & Manufacturing 1	ENG10002
		MEE20003	Fluid Mechanics 1	MTH10013 & MTH10012
		MEE20006	Machine Dynamics 1	MTH10013
		MTH20011	Mathematics 4A	MTH10013 & MTH10012
3	5 (Feb 2023)	MEE30003	Machine Design	MEE20004
		MEE30002	Control Engineering	MTH20007 or MTH20011
		MEE30001	Materials and Manufacturing 2	MEE20005
		MME30001	Engineering Management 1	100 CPS
	EAT20008	EAT20008	Professional Experience in Engineering*	EAT20008 Introductory Seminar
	6 (Sept 2023)	MEE40002	Mechanical Systems Design	MEE30003
		MEE40001	Heat Transfer	MTH20007 or MTH20010
		MEE30004	Solid Mechanics	MEE20004
		COS10022	Introduction to Data Science	Nil
4	7 (Feb 2024)	ENG40001	Final Year Research Project 1	287.5 CPS
		MEE40003	Machine Dynamics 2	MEE20006
		MEE40050	Introduction to Building Services Engineering	200 CPS
		SWE20004	Technical Software Development	ENG10004
	8 (Sept 2024)	ENG40002	Final Year Research Project 2	ENG40001
		MEE40004	Fluid Mechanics 2	MEE20003
		MME40001	Engineering Management 2	100 CPS
		MEE40051	Heating, Ventilation, and Air Conditioning	MEE20001 & MEE20003

\*EAT20008 Professional Experience in Engineering is compulsory for all students. It MUST be taken before the last semester of study as part of EAC's requirement. 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**