

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

### Recommended Study Sequence (September Intake) 2020

Year	Semester/Date	Subject		Prerequisites
		Unit Code	Unit of Study Title	
1	1 (Sept 2020)	ENG10003	Mechanics of Structures	Nil
		ENG10004	Digital and Data Systems	Nil
		MTH10013	Linear Algebra and Applications	Nil
		PHY10004	Electronics and Electromagnetism	Nil
	2 (Mar 2021)	ENG10001	Engineering, Design and Innovation	Nil
		ENG10002	Engineering Materials	Nil
		MTH10012	Calculus and Applications	Nil
		PHY10001	Energy and Motion	Nil
	1 (Sept 2021)	MTH20011	Mathematics 4A	MTH10007 or (both MTH10013 & MTH10012)
		MEE20005	Materials & Manufacturing 1	MEE10001 <sup>a</sup> or ENG10002
		MEE20004	Structural Mechanics	CVE10004 or ENG10003
		MEE20006	Machine Dynamics 1	(both MTH10007 & PHY10001) or MTH10013
	4 (Mar 2022)	MEE20002	Computer Aided Engineering Mechanical	RME10001 or ENG10001
		MEE20003	Fluid Mechanics 1	MTH10007 or (both MTH10013 & MTH10012)
		MEE20001	Thermodynamics	PHY10001
		MTH20010	Mathematics 3A	MTH10007 or (both MTH10013 & MTH10012)
3	5 (Sept 2022)	MEE40001	Heat Transfer	MTH20007 or MTH20010
		MEE30004	Solid Mechanics	MEE20004
		MME30001	Engineering Management 1	100 CPS
			Approved Elective (Unit 1)	
	EAT20008	EAT20008	Professional Experience in Engineering*	EAT20008 Introductory Seminar
	6 (Mar 2023)	MEE30003	Machine Design	MEE20004
		MEE30002	Control Engineering	MTH20007 or MTH20011
MEE30001		Materials and Manufacturing 2	MEE20005	
		MME40001	Engineering Management 2	100 CPS
4	7 (Sept 2023)	ENG40001	Final Year Research Project 1	287.5 CPS
		MEE40004	Fluid Mechanics 2	MEE20003
		MEE40002	Mechanical Systems Design	MEE30003
			Approved Elective (Unit 2)	
	8 (Mar 2024)	ENG40002	Final Year Research Project 2	ENG40001
		MEE40003	Machine Dynamics 2	MEE20006
			Approved Elective (Unit 3)	
		Approved Elective (Unit 4)		

\*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.

<sup>a</sup> Either the MEE10001 Engineering Materials or MEE10001 Materials and Processes will fulfil the pre-requisite requirement for MEE20005 Materials & Manufacturing 1.