BH-ERM - Bachelor of Engineering (Robotics & Mechatronics) (Honours)
Recommended Study Sequence (August 2021 intake)

Year	Semester	Unit of Study		Prerequisites
		Unit Code	Unit Title	
1	**Sem 1** Aug 2021	ENG10003	Mechanics of Structures	Nil
		ENG10004	Digital and Data Systems	Nil
		PHY10004	Electronics and Electromagnetism	Nil
		MTH10013	Linear Algebra and Applications	Nil
	Sem 2 Mar 2022	MTH10012	Calculus and Applications	Nil
		ENG10001	Engineering, Design and Innovation	Nil
		ENG10002	Engineering Materials	Nil
		PHY10001	Energy and Motion	Nil
2	**Sem 3** Sept 2022	MEE20004	Structural Mechanics	ENG10003
		MEE20006	Machine Dynamics 1	MTH10013 & PHY10001
		EEE20001	Digital Electronics Design	Nil
		SWE20004	Technical Software Development	ENG10004/COS10001/COS10009
	Sem 4 Mar 2023	MTH20014	Mathematics 3B	MTH10012 & MTH10013
		EEE20006	Circuits and Electronics 1	PHY10004 & MTH10013
		MEE20002@	Computer Aided Engineering Mechanical	ENG10001
		EEE20003@	Embedded Microcontrollers	EEE20001 & (SWE20004/COS10009)
3	**Sem 5** Sept 2023	RME40002*@	Mechatronics Systems Design	EEE20003
		EEE30004*@	Digital Signal Processing	MTH20014 & (EEE20002/EEE20006)
		RME20001	Electrical Actuators and Sensors	PHY10004
		MME30001@	Engineering Management 1	100 credit points
	Inter Semester	EAT20008	Professional Experience in Engineering# (Industry Placement)	*Introductory Seminar*
	Sem 6 Mar 2024	MEE30003@	Machine Design	MEE20004
		RME30002@	Control and Automation	MTH20014 & (PHY10004/EEE20006)
		RME40003*@	Robot System Design	250 credit points
		COS10011	Creating Web Applications	COS10009 / SWE20004 (CR)
4	**Sem 7** Sept 2024	ENG40001*@	Final Year Research Project 1	287.5 credit points
		RME30003@	Robotic Control	RME30002
		COS10022	Introduction to Data Science	Nil
		COS30018	Intelligent Systems	COS20007 / SWE20004
	Sem 8 Mar 2025	ENG40002*@	Final Year Research Project 2	ENG40001
		MME40001	Engineering Management 2	100 credit points
		MEE40003*@	Machine Dynamics 2	MEE20006
		SWE30011	IoT Programming	COS10011 & (COS20007 / SWE20004)

12 Core units	Industrial Placement
16 Robotics and Mechatronics Major units	* Outcome Units
** **4** Prescribed Elective Units (Industry 4.0)	@ Honours Merit Units

Note:

EAT20008 Professional Experience in Engineering is compulsory for all 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 semester.

** You may choose other elective units from the published elective list for R&M course.