

B1408 – Bachelor of Engineering Technology

Industrial Control & Automation Engineering						
Academic Chair		Dr. Amirmehdi Yazdani		Email: amirmehdi.yazdani@murdoch.edu.au		
Year:		2023		Semester:		S1 Entry
Semester 1				Semester 2		
Year 1 - 2023	Units	CP		Units	CP	
	MAS164 Fundamentals of Mathematics	3		MAS182 Applied Mathematics	3	
	ENG101 Engineering Fundamentals	3		ENG102 Engineering Design for Sustainability	3	
	ENG103 Principles of Engineering	3		PEN120 General Physics	3	
	ENG109 Engineering Computing Systems	3		Engineering Elective (100-Level)	3	
	SEMESTER TOTAL	12		SEMESTER TOTAL	12	
Year 2 - 2024	MAS161 Calculus and Matrix Algebra	3		ENG215 Systems Engineering	3	
	ENG214 Electrical and Electronic Circuits	3		ENG216 Dynamic Systems and Control	3	
	ENG251 PLC Systems	3		ENG252 Embedded Systems	3	
	Engineering Elective (200-Level)	3		Engineering Elective (200-Level)	3	
	SEMESTER TOTAL	12		SEMESTER TOTAL	12	
Year 3 - 2025	ENG360 Y1 Engineering Design Project	3		ENG360 Y2 Engineering Design Project	3	
	ENG392 SCADA and Instrumentation Systems	3		BUS368 Cultures of Innovation	3	
	ENG391 Process Control	3		ENG336 Finance, Ethics and Law	3	
	MAS220 Mathematical Methods	3		Engineering Elective(300-Level)	3	
	SEMESTER TOTAL	12		SEMESTER TOTAL	12	
Total Credit Points						72
Spine ENG100 Engineering Professional Practice (0 CP)				Elective units		
BTech students should complete 300 hours of approved work experience to complete the requirements of the degree.				KAC102 Wandju Boodja (Welcome to Country)		
				CHE140 Fundamentals of Chemistry		
				ENV102 Foundations of the Environment		
				ENG300 Environmental Technology for Sustainability		
				ENG221 Pollution & its Control		
				ENG341 Water Conservation & Auditing		
				ENV243 Water and Earth Science		
				ENV242 Atmospheric and Climate Science		
				ENV303 GIS for Environmental Management and Planning		
				ENV331 Environmental Management		
				PEN152 Principles of Physics		
				ENG231 Renewable Energy Systems		
				ENG382 Power Electronics		
				ENG232 Electromechanical Energy Conversion		
				ENG381 Electrical Power Systems		
				ICT158 Introduction to Information Systems		
				MAS183 Statistical Data Analysis		

Disclaimer: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online Handbook (<https://handbook.murdoch.edu.au/>). Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course.