Bachelor of Engineering Technology B1408 (Electrical and Renewable Energy Engineering)

Academi	amirmehdi.yazdani@murdoch.edu.	<u>au</u>	Start Date: Semester 1 2024	
Industrial (Control & Automation Focus Semester 1 Units	СР	Semester 2 Units	СР
Year 1 – 2024	MAS164 Fundamentals of Mathematics ¹	3	MAS182 Applied Mathematics	3
	ENG101 Engineering Fundamentals	3	ENG102 Engineering Design for Sustainability	3
	ENG103 Principles of Engineering	3	PEN120 General Physics ²	3
	ENG109 Engineering Computing Systems	3	Engineering Elective	3
		12	Total	12
25	Semester 1 Units	СР	Semester 2 Units	СР
	MAS161 Calculus and Matrix Algebra	3	BUS368 Cultures of Innovation	3
2025	ENG214 Electrical and Electronic Circuits	3	ENG216 Dynamic Systems and Control	3
5	ENG215 Systems Engineering	3	ENG231 Renewable Energy Systems	3
Year 2	ENG251 PLC Systems (Engineering Elective)	3	ENG252 Embedded Systems (Engineering Elective)	3
	Total	12	Total	12
Year 3 – 2026	Semester 1 Units	СР	Semester 2 Units	СР
	ENG344 Electromechanical Energy Conversion	3	ENG336 Finance, Ethics and Law	3
	MAS220 Mathematical Methods	3	ENG381 Electrical Power Systems	3
	ENG360 Engineering Design Project	3	ENG382 Power Electronics	3
	ENG392 SCADA and Instrumentation Systems (Engineering Elective) OR ENG391 Process Control (Engineering Elective)	3	ENG360 Engineering Design Project	3
	Total	12	Total	12

TOTAL CREDIT POINTS 72

² Students who have achieved a final scaled score of 60% or more in ATAR Physics or WACE Physics 3A/3B may not enrol in this unit and should consult their Academic Chair.



TEQSA ID: PRV12163 (Australian University)

¹ Students who have achieved a final scaled score of 55% or more in ATAR Mathematics Specialist, WACE Mathematics Specialist 3C/3D or TEE Calculus may not enrol in this unit and should consult their Academic Chair.

KAC10	
KACIU	02 Wandju Boodja (Welcome to Country)
CHE14	10 - Fundamentals of Chemistry
ENV10	D2 Foundations of the Environment
ENG30	00 Environmental Technology for Sustainability
ENG22	21 Pollution & its Control
ENG34	41 Water Conservation & Auditing
ENV24	43 - Water and Earth Science
ENV24	42 - Atmospheric and Climate Science
ENV30	03 - GIS for Environmental Management and Planning
ENV33	31 - Environmental Management
ENG39	91 - Process Control
ENG25	51 - PLC Systems
ENG39	92 - SCADA and Instrumentation Systems
	52 Embedded Systems
	52 Principles of Physics
	8 Introduction to Information Systems
MAS18	83 Statistical Data Analysis

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the <u>Handbook</u>.

