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

Academic Chair: M.Calais@murdoch.edu.au Start Date: Semester 2 2023

Year 1 – 2023	Semester 1 Units	СР	Semester 2 Units	СР
			MAS164 Fundamentals of Mathematics ¹	3
			ENG102 Engineering Design for Sustainability	3
			PEN120 General Physics ²	3
			ENG101 Engineering Fundamentals	3
			Total	12
Year 2 - 2024	Semester 1 Units	СР	Semester 2 Units	СР
	MAS182 Applied Mathematics	3	MAS161 Calculus and Matrix Algebra	3
	ENG103 Principles of Engineering	3	ENG336 Finance, Ethics and Law	3
	ENG109 Engineering Computing Systems	3	ENG214 Electrical and Electronic Circuits	3
	Engineering Elective	3	BUS368 Cultures of Innovation	3
	Total	12	Total	12
Year 3 – 2025	Semester 1 Units	СР	Semester 2 Units	СР
	ENG344 Electromechanical Energy Conversion	3	ENG231 Renewable Energy Systems	3
	ENG215 Systems Engineering	3	ENG381 Electrical Power Systems	3
	ENG216 Dynamic Systems and Control	3	ENG382 Power Electronics	3
	Engineering Elective	3	ENG360 Engineering Design Project	3
	Total	12	Total	12
Year 4 - 2026	Semester 1 Units	CP	Semester 2 Units	СР
	ENG360 Engineering Design Project	3		
	MAS220 Mathematical Methods	3		
	Engineering Elective	3		
	Engineering Elective	3		
	ENG100 Engineering Professional Practice	0		
	Total	12	Total	

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) CRICOS Code: 00125J

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.

Elective Units

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

ENG391 - Process Control

ENG251 - PLC Systems

ENG392 - SCADA and Instrumentation Systems

ENG252 Embedded Systems

PEN152 Principles of Physics

ICT158 Introduction to Information Systems

MAS183 Statistical Data Analysis

Spine - ENG100 Engineering Professional Practice (0 CP)

Bachelor of Engineering Technology students should complete 300 hours of approved work experience to complete the requirements of the course.

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>. Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 28/05/23.

