Academic Chair:

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Start Date: Semester 1 2024

Suggested Electives Focus: Electrical and Renewable Energy

_ <u> </u>	Semester 1 Units	СР	Semester 2 Units	СР
Year 1 – 2024	MAS164 Fundamentals of Mathematics ¹	3	MAS182 Introductory Calculus with Applications	3
	ENG101 Engineering Fundamentals	3	PEN120 General Physics ²	3
	ENG103 Principles of Engineering	3	ENG102 Engineering Design for Sustainability	3
	ENG109 Engineering Computing Systems	3	Engineering Elective	3
			Total	12
Year 2 – 2025	Semester 1 Units	СР	Semester 2 Units	СР
	MAS161 Calculus and Matrix Algebra	3	ENG216 Dynamic Systems and Control	3
	ENG215 Systems Engineering	3	ENG214 Electrical and Electronic Circuits	3
	ENG251 PLC Systems	3	ENG252 Embedded Systems	3
	Engineering Elective	3	BUS368 Cultures of Innovation	3
	Total	12	Total	12
Year 3 – 2026	Semester 1 Units	СР	Semester 2 Units	СР
	MAS220 Mathematical Methods and Multivariable Calculus	3	ENG231 Renewable Energy Systems (Elective)	3
	ENG391 Process Control	3	ENG381 Electrical Power Systems (Elective)	3
	ENG392 SCADA and Instrumentation Systems	3	ENG336 Engineering Finance, Management and Law	3
	ENG360 Engineering Design Project (Y Option)	3	ENG360 Engineering Design Project (Y Option)	3
			ENG100 Engineering Professional Practice	0
	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.



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.

B1408 Bachelor of Engineering Technology (Industrial Control and Automation)

Elective Units				
KAC102	- Wandju Boodja (Welcome to Country)			
ENG231	- Renewable Energy Systems			
ENG344	- Electromechanical Energy Conversion			
ENG381	- Electrical Power Systems			
ENG382	- Power Electronics			
CHE140	- Fundamentals of Chemistry			
PEN152	- Principles of Physics			
ICT158 -	Introduction to Information Systems			
MAS183	- Statistical Data Analysis			
ENG300	- Environmental Technology for Sustainability			
ENG221	- Pollution & its Control			
ENG341	- Water Conservation & Auditing			
ENV102	- Foundations of the Environment			
ENV243	- Water and Earth Science			
ENV242	- Atmospheric and Climate Science			
ENV303	- GIS for Environmental Management and Planning			
ENV331	- Environmental Management			
Bachelo	Spine - ENG100 Engineering Professional Practice (0 CP) r 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 01/07/24.

