

Programme Matrix for Students Intake of AY2025-2026 onwards

Programme Matrix

Faculty	Engineering
Program	Electrical and Computer Engineering
Award	Bachelor of Engineering in Electrical and Computer Engineering
Credit Hour	133 Credit Hours
Academic Year	2025-2026

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/ Elective	CHrs	Course Code	Course Name	Pre-requisite	Core/ Elective	CHrs
1	CHEM1020	General Chemistry	None	Core	4	ELEC1100	Principles of Electrical Circuits	MATH1010	Core	4
	COMP1500	Introduction to Programming	IC3M2	Core	4	ENGG1010	Applied Mechanics	MATH1010	Core	4
	ENGG1013	Engineering Drawing and Computer Drafting	None	Core	2	ENGG1023	Engineering Materials	None	Core	4
	MATH1010	Calculus I	SET3	Core	4	MATH1200	Calculus II	MATH1010	Core	4
	UNIR1100	Communication Skills (1)	None	Core	3	UNIR1001	Oman and Islamic Culture	IC3M1A	Core	2
2	COMP2130	Digital and Computer Systems	MATH1010 and COMP1500	Core	4	COMP2230	Data Structures and Algorithms	COMP1500	Core	4
	ELEC2113	Instrumentation & Measurement	ELEC1100	Core	4	ELEC2013	Signals & Systems	MATH2200	Core	4
	ELEC2200	Electrical and Electronic Circuit Analysis	ELEC1100	Core	4	ELEC2300	Electrical Energy Conversion & Utilization	ELEC1100	Core	4
	MATH2200	Differential Equations and Statistics	MATH1200	Core	4	UNIR2001	Entrepreneurship	None	Core	2
	UNIR1002	Arabic Language Skills	SET 1A	Core	2	UNIR2100	Communication Skills (2)	UNIR1100	Core	3
3	COMP3130	Computer Networks and Security	COMP2130	Core	4	COMP3240	Introduction to Artificial Intelligence	COMP1500	Core	4

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	ELEC3000	Control Systems Engineering	ELEC2013	Core	4	ELEC3600	Electromagnetic Fields and Transmission Lines	MATH1200	Core	4
	ELEC3400	Electronic Circuits	ELEC2200	Core	4	ELEC3500	Power Electronics	ELEC2200	Core	4
	ENGG3700	Numerical Analysis and Optimization	MATH2200	Core	4	UNIR3100	Communication Skills (3)	UNIR2100	Core	3
4	COMP4130	Computer Organization and Architecture	COMP2130	Core	4	COMP4230	Embedded System Design and Interfacing	COMP2130	Core	4
	COMP4500	Computer Vision & Image Processing	ELEC2013 and COMP3240	Core	4	COMS4200	Communication Systems	ELEC2013	Core	4
	ELEC4300	Power Systems Analysis	ELEC2300	Core	4	ELEC4020	Renewable & Sustainable Energy	ELEC2300	Core	4
	ENGG4801A	Final Year Project (A)	75% of Level 3 courses	Core	4	ENGG4801B	Final Year Project (B)	ENGG4801A	Core	4