



Academic Form-38: PROGRAM MATRIX

Faculty	Engineering
Program	Electrical and Computer Engineering
Award	Bachelor in Engineering
Credit Units	69
Academic Year	2023/2024

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/Elective	Units	Course Code	Course Name	Pre-requisite	Core/Elective	Units
1	ENGG1013	Engineering Drawing and Computer drafting	None	Core	1	ELEC1100	Principles of Electrical Circuits	None	Core	2
	UNIR1100	Communication Skills I	None	Core	2	MATH1100	Calculus & Linear Algebra	MATH1000	Core	2
	MATH1000	Mathematical Foundations	Set 3 Math	Core	2	ENGG1010	Applied Mechanics	None	Core	2
	CHEM1020	General Chemistry	None	Core	2	ENGG1023	Engineering Materials	None	Core	2
	COMP1500	Introduction to Programming	None	Core	2	UNIR1001	Oman and Islamic Culture	None	Core	1
2	ELEC2200	Electrical and Electronic Circuit Analysis	ELEC1100	Core	2	ELEC2013	Signals & Systems	None	Core	2
	ELEC2113	Instrumentation & Measurement	ELEC1100	Core	2	ELEC2300	Electrical Energy Conversion & Utilization	ELEC1100	Core	2
	COMP2130	Digital and computer Systems	None	Core	2	COMP2230	Data Structures and Algorithms	None	Core	2
	MATH2100	Calculus & Statistics	None	Core	2	UNIR2100	Communication Skills II	None	Core	2
	UNIR2001	Entrepreneurship	None	Core	2	UNIR1002	Arabic Language Skills	None	Core	1
3	ELEC3000	Control Systems Engineering	None	Core	2	ELEC3500	Power Electronics	None	Core	2
	ELEC3400	Electronic Circuits	ELEC2200	Core	2	COMS3100	Introduction to Communication Systems	None	Core	2



	ELEC3100	Fundamentals of Electromagnetic Fields & Waves	None	Core	2	COMP3300	Microprocessors & Microcontrollers	None	Core	2
	ENGG3700	Numerical Analysis & Optimisation	None	Core	2	UNIR3100	Communication Skills III	None	Core	2
4	ELEC4300	Power Systems Analysis	None	Core	2	ENGG4000	Renewable & Sustainable Energy	None	Core	2
	COMP4500	Computer Vision & Image Processing	COMP2130	Core	2	COMS4100	Advanced Digital Communication Theory & Systems	None	Core	2
	COMP4200	Computer Systems Architecture	None	Core	2	ELEC4000	Embedded Systems Design	None	Core	2
	ENGG4801A	Thesis Project	None	Core	2	ENGG4801B	Thesis Project	None	Core	2