

## Programme Matrix

<b>Faculty</b>	Faculty of Computing and Information Technology
<b>Program</b>	Computing and Web Engineering
<b>Award</b>	Bachelor of Computing and Web Engineering
<b>Credit Hours / Units</b>	128 Credit Hours / 68 Units
<b>Academic Year</b>	2025 Onward

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/Elective	Units / Credits	Course Code	Course Name	Pre-requisite	Core/Elective	Units/ Credits
1	COMP1117	Computer Architecture & Organization	IC3	Core	2/4	COMP1217	Fundamentals of Database Systems	IC3	Core	2/4
	COMP1116	Computer Programming	IC3	Core	2/4	COMP1216	Algorithms and Data Structure	None	Core	2/4
	COMP1118	Discrete Mathematics	IC3	Core	2/3	COMP1213	Computer Networks I	IC3	Core	2/4
	UNIR1100	Communication Skills I	None	Core	2/3	COMP1218	Introduction To Web & Multimedia Technology	None	Core	2/4
	UNIR1001	Oman and Islamic Culture	None	Core	1/2	UNIR1002	Arabic Language Skills	None	Core	1/2
2	COMP2100	Human Computer Interaction	None	Core	2/4	COMP2215	Operating System & Security	None	Core	2/4
	COWE2100	Web Application Development	COMP1218	Core	2/4	INTR2002	Industrial Training	None	Core	0
	COMP2108	Object Oriented Programming	COMP1116	Core	2/4	COMP2220	Web Information Systems	None	Core	2/4
	UNIR2001	Entrepreneurship	None	Core	2/2	UNIR2100	Communication Skills II	UNIR1100	Core	2/3
	COMP2111	System Analysis and Design	COMP1116	Core	2/4	COMP1220	Computer Security Fundamental	None	Elective	2/4
						COMP2222	Computer Animation	None	Elective	
						ARIN2201	Introduction to Business Intelligence	None	Elective	



Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/ Elective	Units / Credits	Course Code	Course Name	Pre-requisite	Core/ Elective	Units/ Credits
3	COMP3113	Cloud Computing and Web Services	None	Core	2/4	COWE3200	Advance Web Technologies	COMP2220	Core	2/4
	COMP3109	Mobile Applications	None	Core	2/4	COMP3210	Artificial Intelligence	None	Core	2/4
	COMP3112	Software Project Management	None	Core	2/4	UNIR3100	Communication Skills III	UNIR2100	Core	2/4
	COMP3107	Distributed Database Design	None	Elective	2/4	COMP3121	Cyber Law and Ethics	None	Elective	2/4
	COMP3110	Pattern Recognition	None	Elective		COMP3201	Computer Graphic	None	Elective	
	COMP3111	GIS & Spatial Databases	None	Elective		COMP3209	Data Mining	None	Elective	
4	COMP4000A	Specialization Project	None	Core	2/3	COMP4000 B	Specialization Project	COMP4000 A	Core	2/3
	COWE4100	Generative AI for Web Development	COMP2220	Core	2/4	COWE4200	Web Environment	COMP2220	Core	2/4
	COMP3211	ERP Design and Implementation	None	Elective	2/4	COMP4210	Mobile and Wireless Networks	COMP2220	Core	2/4
	ARIN4202	Natural Language Processing	None	Elective	2/4	COMP4202	Advance Information Security	COMP1220	Elective	2/4
	COMP4109	Internet of Things	None	Elective		COMP4206	Data Visualization	None	Elective	
						ARIN4201	Special Topic in AI	None	Elective	