PROGRAM MATRIX

Faculty	Computing and Information Technology
Program	Computing and Multimedia
Award	Bachelor in Computing and Multimedia
Credits Hours/Units	128/68
Academic Year	2025/2026

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/ Elective	Units /Cr.H	Course Code	Course Name	Pre-requisite	Core/ Elective	Units/ Cr.H
1	COMP1117	Computer Architecture and Organization	IC3	Core	2/4	COMP1213	Computer Networks I	IC3	Core	2/4
	COMP1116	Computer Programming	IC3	Core	2/4	COMP1217	Fundamentals of Database Systems	IC3	Core	2/4
	COMP1118	Discrete Mathematics	IC3	Core	2/3	COMP1218	Introduction to Multimedia Technology and Web Engineering	None	Core	2/4
	UNIR1100	Communication Skills I	None	Core	2/3	COMP1216	Algorithms and Data Structure	None	Core	2/4
	UNIR1001	Oman and Islamic Culture	None	Core	1/2	UNIR1002	Arabic Language Skills	None	Core	1/2
2	COMP2108	Object Oriented Programming	COMP1116	Core	2/4	COMP2222	Computer Animation	COMP1218	Core	2/4
	COMP2100	Human Computer Interaction	None	Core	2/4	COMM2223	Digital Media Design	None	Core	2/4

Level	Code	Course Name	Prerequisite	Type	Credits	Code	Course Name	Prerequisite	Type	Credits
	COMP2111	System Analysis and Design	COMP1116	Core	2/4	UNIR2100	Communication Skills II	UNIR1100	Core	2/3
	UNIR2001	Entrepreneurship	None	Core	2/2	COMP2215	Operating System & Security	COMP1117	Elective	2/4
	COMP2000	Computer Networks II	COMP1213	Elective	2/4	COMP1220	Computer Security Fundamental	None	Elective	
	COMP2120	Network Security	COMP1213	Elective		COMP2220	Web Information Systems	None	Elective	
	NEDB2101	Database Administration	COMP1217	Elective		INTR2002	Industrial Training	None	Core	0
3	COMP3109	Mobile Applications	COMP1218	Core	2/4	COMP3201	Computer Graphic	COMP2108	Core	2/4
	COMP3110	Pattern Recognition	None	Core	2/4	UNIR3100	Communication Skills (3)	UNIR2100	Core	2/3
	COMP3112	Software Project Management	None	Core	2/4	COMM3235	Audio and Video Processing	None	Core	2/4
	COMP3113	Cloud Computing and Web Services	None	Elective	2/4	COMP3211	ERP Design and Implementation	None	Elective	2/4
	NEDB3101	Switching and Routing Techniques	COMP1213	Elective		COMP3210	Pattern Recognition	None	Elective	
	COMP3111	GIS & Spatial Databases	None	Elective		COMP3209	Artificial Intelligence	None	Elective	
4	COMP4000A	Specialization Project (A)	75% of Level 3 courses	Core	2/4	COMP4000B	Specialization Project (B)	COMP4000A	Core	2/4

	COMM4213	Augmented and Virtual Reality	COMM2223	Core	2/4	COMM4206	Data Visualization	COMP2100	Core	2/4
	COMP4108	Big Data Analytics	COMP2111	Core	2/4	COMP4211	Game Development	COMM2223	Core	2/4
	COMP4107	Special Topics	None	Core	2/4	CySe4202	Advanced Information Security	None	Elective	2/4
						COMP3121	Cyber Law and Ethics	None	Elective	
						COMP4121	IoT-Network Security	COMP4109	Elective	