

Aspiring to be a Leading College of Technology and Management in Oman

BACHELOR OF COMPUTER SCIENCE (COMPUTER SYSTEMS & NETWORKING) WITH HONOURS

PROGRAMME STRUCTURE

Diploma in Computer Science						
Year 1	Code	Semester 1	Credit Hours	Code	Semester 2	Credit Hours
	BCS1143	Problem Solving	3	BCS1023	Introduction to Programming (Pre-requisite: BCS1143)	3
	BCC1032	Application Development Workshop	3	BCI2023	BCI2023 Database Systems (Pre-requisite: BCC1032)	3
	BCC1012	ICT Competency Workshop	3	BCN1052	LAN Workshop	3
	BCN1043	Computer Architecture & Organization	3	BCN2053	Operating Systems	3
	BUM1233	Discrete Mathematics and Application	2	BUM1433	Discrete Structure & Applications (Pre-requisite: BUM1233)	2
				BUM2225	Algebra	2
		TOTAL	14		TOTAL	16
Year 2	Code	Semester 3	Credit Hours	Code	Semester 4	Credit Hours
	BCS1093	Data Structure & Algorithms Prerequisite (BCS1023)	3	BCS2143	Object Oriented Programming (Pre-requisite: BCS1023)	3
	BCN1053	Data Communication & Networking (Pre-requisite: BCN1052)	3	BUM2226	Differential Equation	2
	BCS1133	Systems Analysis & Design (Pre-requisite: BCS1023)	3	BCS2283	Introduction to Software Engineering (Pre-requisite: BCS1133)	3
	BCS2173	Human Computer Interaction	3	BCN2023	Data & Network Security (Pre-requisite: BCN1053)	3
	BUM2413	Applied Statistics	2	BCS2303	Web Scripting(Prerequisite (BCS1023)	3
	UHS1021	Soft Skills-I	1	UGE2002	Technopreneurship(Pre-requisite: UHS1021)	1
		TOTAL	15		TOTAL	15
Bachelor of Computer Science (Computer Systems & Networking) with Honours						
Year 3	Code	Semester 5	Credit Hours	Code	Semester 6	Credit Hours
	BCN2195	System Programming (Pre-requisite: BCN1053)	3	BCN2196	System Administration(Pre-requisite: BCN2195)	3
	BCN3133	Computer Ethic & Policies	3	BCN3010	Network Programming(Pre-requisite: BCN2195)	3
	BCN2193	Network Routing Technologies (Pre-requisite: BCN1053)	3	BCN3203	BCN3203 WAN Technology (Pre-requisite: BCN2083)	3
	BCN2083	Network Switching Technologies (Pre-requisite: BCN1053)	3	BCN3123	Distributed Systems(Pre-requisites: BCN1053, BCN2053)	3
	BCN3183	Internet Technology(Pre-requisite: BCN2023)	3	BCN3113	Ethical Hacking(Pre-requisite: BCN2023)	3
		TOTAL	15		TOTAL	15
Year 4	Code	Semester 7	Credit	Code	Semester 8	Credit

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		Hours			Hours
BCM2043	Elective I -Multimedia Technology & Applications	3	BCI3913	Elective II :Structured Query Language(Pre-requisite: BCI2303)	3
BCN3205	Wireless Technologies Prerequisite (BCN1053)	3	BCM3153	Elective III: Visual Effects & 3D Animation	3
BCN2093	Network Analysis & Design Prerequisite (BCN3203)	3	BCN3023	Network Management	3
BCN3193	Computer Forensics & Investigation	3	BCC3026	Undergraduate Project II	6
BCC3013	Undergraduate Project I	3			
	TOTAL	15		TOTAL	15