

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

BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) 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
				BUM2220	Basic Mathematics	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 (Software Engineering) with Honours						
Year 3	Code	Semester 5	Credit Hours	Code	Semester 6	Credit Hours
	BCM2043	Elective I: Multimedia Technology & Applications	3	BCM2053	Elective III: Computer Graphics	3
	BCN3133	Elective II: Computer Ethic & Policies	3	BCM3143	Elective IV: Computer Game Programming	3
	BCS2333	Software Planning & Requirement Workshop (Pre-requisite: BCS1133)	3	BCS3283	Mobile Application Development	3
	BCS2203	Web Application Development	3	BCS3293	Software Configuration Management	3
	BCS2313	Artificial Intelligence Techniques (Pre-requisite: Familiar with any programming)	3	BCS2343	Software Design Workshop (Pre-requisites: BCS2143, BCS2333)	3
		TOTAL	15		TOTAL	15

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	Code	Semester 7	Credit Hours	Code	Semester 8	Credit Hours
Year 4	BCM206	Elective V: Image Processing	3	BCI3913	Elective VII: Structured Query Language(Pre-requisite: BC12023)	3
	BCS3113	Elective VI: Zend PHP(Pre-requisite: BCS2303)	3	BCM3153	Elective VIII: Visual Effects & 3D Animation	3
	BCS3323	Software Testing and Maintenance(Pre-requisite: BCS2343)	3	BCS3263	Software Quality Assurance(Pre-requisite BCS3323)	3
	BCS2213	Formal Method(Pre-requisites: BUM1213, BUS2223)	3	BCC3026	Undergraduate Project II	6
	BCC3013	Undergraduate Project I	3			
		TOTAL	15		TOTAL	15