

Aspiring to be “a quality higher education institution of technology”

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	3
	BCC1032	Application Development Workshop	3	BCI2023	Database Systems	3
	BCC1012	ICT Competency Workshop	3	BCN1052	LAN Workshop	3
	BCN1043	Computer Architecture & Organization	3	BCN2053	Operating Systems	3
	BUM1213	Fundamental Discrete Structure	2	BUM2223	Discrete Structure & Applications	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	3	BCS2143	Object Oriented Programming	3
	BCN1053	Data Communication & Networking	3	BUM2226	Differential Equation	2
	BCS1133	Systems Analysis & Design	3	BCS2283	Introduction to Software Engineering	3
	BCS2173	Human Computer Interaction	3	BCN2023	Data & Network Security	3
	BUM2413	Applied Statistics	2	BCS2303	Web Scripting	3
	UHS1011	Soft Skills-I	1	UGE2002	Technopreneurship	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
	BC****3	Elective I	3	BC****3	Elective III	3
	BC****3	Elective II	3	BC****3	Elective IV	3
	BCS2333	Software Planning & Requirement Workshop	3	BCS3283	Mobile Application Development	3
	BCS2203	Web Application Development	3	BCS3293	Software Configuration Management	3
	BCS2313	Artificial Intelligence Techniques	3	BCS2343	Software Design Workshop	3
		TOTAL	15		TOTAL	15
Year 4	Code	Semester 7	Credit Hours	Code	Semester 8	Credit Hours
	BC****3	Elective V	3	BC****3	Elective VII	3
	BC****3	Elective VI	3	BC****3	Elective VIII	3
	BCS3323	Software Testing and Maintenance	3	BCS3263	Software Quality Assurance	3
	BCS2213	Formal Method	3	BCC3026	Undergraduate Project II	6
	BCC3013	Undergraduate Project I	3			
		TOTAL	15		TOTAL	15

Elective Courses

Code	Electives Courses	Credit Hours	Code	Electives Courses	Credit Hours
BCS3113	Zend PhP	3	BCM2053	Computer Graphics	3
BCI3913	Structured Query Language	3	BCM2063	Image Processing	3
BCM3153	Visual Effects & 3D Animation	3	BCM3113	3D Modelling	3
BCM3143	Computer Game Programming	3	BCM2073	Modelling & Simulation	3
BCM2043	Multimedia Technology & Applications	3	BCM3123	Data Visualisation	3
BCN3133	Computer Ethic & Policies	3	BCM3103	Virtual Reality	3

*** Note: Part time students may take three courses per semester at maximum, hence may need six years to complete the program**