

Bachelor of Science in Computer Science BS(CS)							
Scheme of Study: Batch-2021-25							
First Semester				Second Semester			
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite
ACCT-1081	Fundamentals of Accounting	3		STAT-2003	Probability and Statistics	3	
PHC-1003	Physics for Computing	2		ENG-1092	Communication & Presentation Skills	3	Functional English
PHC-1003L	Physics for Computing - LAB	1		HU-1092	Pakistan Studies	2	
ENG-1091	Functional English	3		COC-1071	Programming Fundamentals	3	
CS-1075	Introduction to ICT	2		COC-1071L	Programming Fundamentals-LAB	1	
CS-1075L	Introduction to ICT- LAB	1		SS-1093	Introduction to Psychology	3	
COC-1070	Discrete Structures	3		HU-1091	Islamic Studies	2	
QT-1001	Translation of Al-Quran-I	0		QT-1002	Translation of Al-Quran-II	0	
MA-0000	*Pre-Calculus-1	0		MA-0001	*Pre-Calculus-2	0	
Total		15		Total		17	
Third Semester				Fourth Semester			
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite
COC-2070	Database Systems	3		MA-1005	Linear Algebra	3	
COC-2070L	Database Systems-LAB	1		CSC-2076	Theory of Automata and Formal Languages	3	
MA-1001	Calculus	3		ENG-3091	Technical Writing	3	
COC-2071	Object Oriented Programming	3	Programming Fundamentals	COC-2073	Data Structures and Algorithms	3	Object Oriented Programming
COC-2071L	Object Oriented Programming-LAB	1	Programming Fundamentals	COC-2073L	Data Structures and Algorithms-LAB	1	Object Oriented Programming
CSC-2074	Digital Logic Design	3	Physics for Computing	CSC-2075	Computer Organization & Assembly Language	3	
CSC-2074L	Digital Logic Design-LAB	1	Physics for Computing	CSC-2075L	Computer Organization & Assembly Language-LAB	1	
COC-2072	Software Engineering Fundamentals	3		QT-2002	Translation of Al-Quran-IV	0	
QT-2001	Translation of Al-Quran-III	0					
Total		18		Total		17	
Fifth Semester				Sixth Semester			
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite
CSC-3072	Design And Analysis of Algorithms	3	Data Structures and Algorithms	CSC-3073	Introduction to Artificial Intelligence	2	
COC-3070	Data Communication and Networks	3		CSC-3073L	Introduction to Artificial Intelligence-LAB	1	
COC-3070L	Data Communication and Networks-LAB	1		CSC-3074	Compiler Construction	3	Theory of Automata and Formal Languages
COC-3071	Operating Systems	3	Data Structures and Algorithms	TE-1113	Introduction to Textiles	3	
COC-3071L	Operating Systems-LAB	1	Data Structures and Algorithms	CSE-XXXX	CS Elective I	3	
CSS-3076	Theory of Programming Languages	3		CSE-XXXX	CS Elective II	3	
CSS-3077	Graph Theory	3		CSC-3075	Parallel and Distributed Computing	3	Operating Systems
QT-3001	Translation of Al-Quran-V	0		QT-3002	Translation of Al-Quran-VI	0	
Total		17		Total		18	
Seventh semester				Eighth semester			
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite
COC-4070	BS Final Project-I	2		COC-4071	BS Final Project-II	4	
CSS-4073	Numerical Computing	2		COC-4072	Information Security	2	
CSS-4073L	Numerical Computing-LAB	1		COC-4072L	Information Security - LAB	1	
SS-4071	Professional Practices	3		CSE-XXXX	CS Elective V	3	
CSE-XXXX	CS Elective III	3		MGT-4085	Entrepreneurship	3	
CSE-XXXX	CS Elective IV	3		SS-XXXX	Foreign Language (Chinese/German/French)	2	
QT-4001	Translation of Al-Quran-VII	0		QT-4002	Translation of Al-Quran-VIII	0	
Total		14		Total		15	
Industrial Internship (4 weeks, 6days/week, 8 hours/day during summer holidays after 2nd year)							1
Total Credits for BS Computer Science						132	