

## Bachelor of Science Computer Science BS(CS)

### Scheme of Study: Batch-2019-23

First Semester			Second Semester		
Code	Course Title	CR	Code	Course Title	CR
MA-1001	Calculus	3(3+0)	MA-1005	Linear Algebra	3(3+0)
PH-1004	Applied Physics	4(3+1)	ENG-1092	Communication & Presentation Skills	3(3+0)
ENG-1091	Functional English	3(3+0)	HU-1092	Pakistan Studies	2(2+0)
CS-1071	Introduction of Computing	3(2+1)	CSC-1071	Programming Fundamentals	4(3+1)
CSC-1072	Discrete Structures	3(3+0)	CSC-2073	Software Engineering Fundamentals	3(3+0)
			HU-1091	Islamic Studies	2(2+0)
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
Third Semester			Fourth Semester		
Code	Course Title	CR	Code	Course Title	CR
CSC-2078	Database Systems	4(3+1)	STAT-2003	Probability and Statistics	3(3+0)
MGT-1081	Principles of Management	3(3+0)	MA-2002	Multivariate Calculus	3(3+0)
CSC-2071	Object Oriented Programming	4(3+1)	ENG-3091	Technical Writing	3(3+0)
CSC-1074	Digital Logic Design	4(3+1)	CSC-2077	Data Structures and Algorithms	4(3+1)
SS-1093	Introduction to Psychology	3(3+0)	CSC-2075	Computer Organization & Assembly Language	4(3+1)
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>17</b>
Fifth Semester			Sixth Semester		
Code	Course Title	CR	Code	Course Title	CR
CSC-3071	Design And Analysis of Algorithms	3(3+0)	MA-4001	Numerical Computing	3(2+1)
CSC-2074	Data Communication and Networks	4(3+1)	CSC-3073	Introduction to Artificial Intelligence	3(2+1)
CSC-3072	Operating Systems	4(3+1)	TE-1113	Introduction to Textiles	3(3+0)
CSC-2076	Theory of Automata and Formal Languages	3(3+0)	CSE-XXXX	CS Elective I	3(3+0)
MA-300X	Graph Theory	3(3+0)	CSE-XXXX	CS Elective II	3(3+0)
			CSC-XXXX	Parallel and Distributed Computing	3(3+0)
QT-3001	Translation of Al-Quran-V	0	QT-3002	Translation of Al-Quran-VI	0
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>18</b>
Seventh semester			Eighth semester		
Code	Course Title	CR	Code	Course Title	CR
CSC-4071	BS Final Project-I	3(0+3)	CSC-4075	Information Security	3(3+0)
CSC-4072	Compiler Construction	3(3+0)	CSC-4071	BS Final Project-II	3(0+3)
SS-4071	Professional Practices	3(3+0)	CSE-XXXX	SE Elective VI	3(3+0)
CSE-XXXX	CS Elective III	3(3+0)	MGT-4085	Entrepreneurship	3(3+0)
CSE-XXXX	CS Elective IV	3(3+0)			
QT-4001	Translation of Al-Quran-VII	0	QT-4002	Translation of Al-Quran-VIII	0
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>
<b>Industrial Internship (4 weeks, 6days/week, 8 hours/day during summer holidays after 2<sup>nd</sup> year)</b>					<b>1</b>
<b>Total Credits for BS Computer Science</b>					<b>131</b>