

Bachelor of Science in Software Engineering BS(SE)

Scheme of Study: Batch-2019-23

First Semester			Second Semester		
Code	Course Title	CR	Code	CourseTitle	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)
Total		16	Total		17
Third Semester			Fourth Semester		
Code	Course Title	CR	Code	CourseTitle	CR
CSC-2078	Database Systems	4(3+1)	STAT-2003	Probability and Statistics	3(3+0)
MGT-1081	Principals of Management	3(3+0)	ENG-3091	Technical Writing	3(3+0)
CSC-2071	Object Oriented Programming	4(3+1)	CSC-2077	Data Structures and Algorithms	4(3+1)
SEC-207X	Software Requirements Engineering	3(3+0)	CSC-2074	Data Communication and Networks	4(3+1)
CSC-2075	Human Computer Interaction	3(3+0)	ITC-XXXX	Operations Research	3(3+0)
Total		17	Total		17
Fifth Semester			Sixth Semester		
Code	Course Title	CR	Code	CourseTitle	CR
CSC-3072	Operating Systems	4(3+1)	SEC-XXXX	Formal Methods in Software Engineering	3(3+0)
SEC-3071	Software Architecture & Design	3(3+0)	SS-1093	Introduction to Psychology	3(3+0)
SEC-3073	Software Quality Engineering	3(3+0)	SEE-XXXX	SE Elective I	3(3+0)
SEC-2070	Software Construction and Management	3(3+0)	SEE-XXXX	SE Elective II	3(3+0)
SEC-XXXX	Software Project Management	3(3+0)	SEC-3075	Software Re-Engineering	3(3+0)
			TE-1113	Introduction to Textile	3(3+0)
QT-3001	Translation of Al-Quran-V	0	QT-3002	Translation of Al-Quran-VII	0
Total		16	Total		18
Seventh Semester			Eight Semester		
Code	Course Title	CR	Code	Course Title	CR
CSC-XXXX	Information Security	3(3+0)	CSC-4071	BS Final Project-II	3(0+3)
CSC-4071	BS Final Project-I	3(0+3)	SEE-XXXX	SE Elective V	3(3+0)
SEE-XXXX	SE Elective III	3(3+0)	MGT-4085	Entrepreneurship	3(3+0)
SEE-XXXX	SE Elective IV	3(3+0)	ITC-4073	Modeling and Simulation	3(3+0)
SEC-4073	Web Engineering	3(2+0)			
SS-4071	Professional Practices	3(3+0)			
QT-4001	Translation of Al-Quran-VII	0	QT-4002	Translation of Al-Quran-VIII	0
Total		18	Total		12
Industrial Internship (4 weeks, 6days/week, 8 hours/day during summer holidays after 2 nd year)					1
Total Credits for BS Software Engineering					132