Bachelor of Science in Software Engineering BS(SE)

Scheme of Study: Batch-2023-27

First Semester			Second Semester		
Code	**CourseTitle**	**CR**	**Code**	**CourseTitle**	**CR**
PHC-1003	Physics for Computing	2	STAT-2003	Probability and Statistics	3
PHC-1003L	Physics for Computing - LAB	1	MGT-1082	Fundamentals of Management	2
COC-1075	Programming Fundamentals (PF)	3	COC-1076	Database Systems	3
COC-1075L	Programming Fundamentals-LAB	1	COC-1076L	Database Systems-LAB	1
ENG-1091	Functional English (FE)	3	COC-1074	Digital Logic Design (DLD)	2
CS-1075	Introduction to ICT	2	COC-1074L	Digital Logic Design-LAB	1
CS-1075L	Introduction to ICT- LAB	1	COC-1077	Object Oriented Programming (OOP)	3
COC-1070	Discrete Structures	3	COC-1077L	Object Oriented Programming-LAB	1
QT-1001	Translation of Al-Quran-I	0	HU-1091	Islamic Studies	2
MA-0000	*Math Foundation-1	0	QT-1002	Translation of Al-Quran-II	0
			MA-0001	*Math Foundation-2	0
	Total	**16**		**Total**	**18**

Third Semester			Fourth Semester		
Code	**CourseTitle**	**CR**	**Code**	**CourseTitle**	**CR**
MA-1001	Calculas and Analytic Geometry (CAG)	3	MA-1005	Linear Algebra	3
COC-2073	Data Structures (DS)	3	SEC-4071	Software Requirement Engineering	2
COC-2073L	Data Structures-LAB	1	SEC-4071L	Software Requirement Engineering-LAB	1
COC-2077	Data Communication and Networks	2	COC-2079	Introduction to Artificial Intelligence	2
COC-2077L	Data Communication and Networks-LAB	1	COC-2079L	Introduction to Artificial Intelligence-LAB	1
COC-2080	Computer Organization & Assembly Language (COAL)	2	COC-2078	Information Security	2
COC-2080L	Computer Organization & Assembly Language-LAB	1	COC-2078L	Information Security - LAB	1
COC-2072	Software Engineering Fundamentals	3	SEC-2078	Software Construction and Development	2
QT-2001	Translation of Al-Quran-III	0	SEC-2078L	Software Construction and Development-LAB	1
			ENG-1092	Expository Writing (EW)	3
			QT-2002	Translation of Al-Quran-IV	0
	Total	**16**		**Total**	**18**

Fifth Semester			Sixth Semester		
Code	**CourseTitle**	**CR**	**Code**	**CourseTitle**	**CR**
MA-2XXX	Multivariable Calculus	3	SEC-2077	Software Design & Architecture	3
SEC-3074	Software Project Management	2	CSC-3075	Parallel and Distributed Computing	2
SEC-3074L	Software Project Management-LAB	1	CSC-3075L	Parallel and Distributed Computing-LAB	1
COC-3071	Operating Systems (OS)	2	SEE-XXXX	SE Elective III **(2+1)**	3
COC-3071L	Operating Systems-LAB	1	SEE-XXXX	SE Elective IV **(2+1)**	3
CSC-3072	Design And Analysis of Algorithms	3	MGT-3XXX	Financial Accounting	3
SEE-XXXX	SE Elective I **(2+1)**	3	TE-1113	Introduction to Textiles	2
SEE-XXXX	SE Elective II **(2+1)**	3	QT-3002	Translation of Al-Quran-VI	0
QT-3001	Translation of Al-Quran-V	0			
	Total	**18**		**Total**	**17**

Seventh semester			Eight semester		
Code	**CourseTitle**	**CR**	**Code**	**CourseTitle**	**CR**
COC-4070	BS Final Project-I (FYP-1)	2	COC-4071	BS Final Project-II	4
SEC-3071	Software Quality Engineering	2	SEE-XXXX	SE Elective VII **(2+1)**	3
SEC-3071	Software Quality Engineering-LAB	1	HU-4092	Civics & Community Engagement	2
SEE-XXXX	SE Elective V **(2+1)**	3	SS-4071	Professional Practices	2
SEE-XXXX	SE Elective VI **(2+1)**	3	QT-4002	Translation of Al-Quran-VIII	0
ENG-3091	Technical and Business Writing	3			
MGT-4085	Entrepreneurship	2			
HU-4091	Ideology and Consitution of Pakistan	2			
QT-4001	Translation of Al-Quran-VII	0			
	Total	**18**		**Total**	**11**
	Industrial Internship (4 weeks, 6days/week, 8 hours/day during summer holidays after 2nd year)				1
	Total Credits for BS Software Engineering			**133**	