

BS Software Engineering

Revised Suggested Semester/Study Plan for BSSE

Semester - 1			
Code	Course Title	Pre-req	Credit Hrs
CSC-1113	Programming Fundamentals	-	3
CSC-1111	Programming Fundamentals - LAB	-	1
CSC-1012	Application of Information & Communication Technologies	-	2
CSC-1011	Application of Information & Communication Technologies - LAB	-	1
ENG-1213	Functional English	-	3
MTH-1423	QR-1 (Calculus and Analytical Geometry)	-	3
MTH-1413	QR-2 (Discrete Structures)	-	3
ISL-1011	Fehm-e-Quran I (Only for Muslims)	-	1
HUM-1011	Ethics and Culture I (Only for non-Muslims)	-	1
MTH-1410	Pre Calculus I (If mathematics was not in Intermediate)	-	3 (NC)
Total			17

Semester - 2			
Code	Course Title	Pre-req	Credit Hrs
CSC-1123	Object Oriented Programming	CSC-1113	3
CSC-1121	Object Oriented Programming - LAB	CSC-1111	1
CSC-1022	Digital Logic Design	-	2
CSC-1021	Digital Logic Design - LAB	-	1
CSC-1033	Database Systems	-	3
CSC-1031	Database Systems - LAB	-	1
MTH-1433	Linear Algebra	MTH-1423	3
CSC-1042	Computer Networks	-	2
CSC-1041	Computer Networks - LAB	-	1
ISL-1021	Fehm-e-Quran II (Only for Muslims)	-	1
HUM-1021	Ethics and Culture II (Only for non-Muslims)	-	1
MTH-1420	Pre Calculus II (If mathematics was not in Intermediate)	-	3 (NC)

Total	18
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Semester - 3			
Code	Course Title	Pre-req	Credit Hrs
CSC-2133	Data Structures	CSC-1123	3
CSC-2131	Data Structures - LAB	CSC-1121	1
CSC-2063	Software Engineering	-	3
CSC-2082	Artificial Intelligence	-	2
CSC-2081	Artificial Intelligence - LAB	-	1
MTH-2443	Probability & Statistics	-	3
MTH-2453	Multivariable Calculus	MTH-1423	3
CSC-2072	Information Security	-	2
CSC-2071	Information Security-Lab	-	1
Total			19

Semester - 4			
Code	Course Title	Pre-req	Credit Hrs
CSC-2142	Computer Org. & Assembly Language	CSC-1022	2
CSC-2141	Computer Org. & Assembly Language - LAB	CSC-1021	1
SEC-2513	Domain Core 1 / Software Design & Architecture		3
SEC-2522	Domain Core 2 / Software Construction & Development		2
SEC-2521	Domain Core 2 / Software Construction & Development-Lab		1
PHY-2462	Applied Physics		2
PHY-2461	Applied Physics-Lab		1
ENG-2223	Expository Writing	ENG-1213	3
CSE-2612	Domain Elective – 1	-	2
CSE-2611	Domain Elective – 1 - LAB	-	1
Total			18

Semester - 5			
Code	Course Title	Pre-req	Credit Hrs
CSC-3052	Operating System	-	2
CSC-3051	Operating System - LAB	-	1
SEC-3532	Domain Core 3 / Software Project Management	-	2
SEC-3531	Domain Core 3 / Software Project Management-Lab	-	1
SEC-3542	Domain Core 4 / Software Quality Engineering	-	2
SEC-3541	Domain Core 4 / Software Quality Engineering-Lab	-	1
CSE-3622	Domain Elective – 2		2
CSE-3621	Domain Elective – 2 - LAB		1
CSE-3632	Domain Elective – 3	-	2
CSE-3631	Domain Elective – 3-LAB	-	1
SOC-3312	Social Science / (Introduction to Sociology)	-	2
Total			17

Semester - 6			
Code	Course Title	Pre-req	Credit Hrs
SEC-3552	Domain Core 5 / Software Requirement Engineering	-	2
SEC-3551	Domain Core 5 / Software Requirement Engineering-Lab	-	1
SEC-3562	Domain Core 6 / Parallel & Distributed Computing	-	2
SEC-3561	Domain Core 6 / Parallel & Distributed Computing - LAB	-	1
CSE-3642	Domain Elective – 4		2
CSE-3641	Domain Elective – 4-LAB	-	1
CSE-3652	Domain Elective – 5	-	2
CSE-3651	Domain Elective – 5-LAB	-	1
CSE-3662	Domain Elective – 6	-	2
CSE-3661	Domain Elective – 6-LAB		1
CSE-3672	Domain Elective – 7		2
CSE-3671	Domain Elective – 7-LAB		1
Total			18

Semester - 7			
Code	Course Title	Pre-req	Credit Hrs
CSC-4712	Final Year Project - I		2
HUM-4322	Entrepreneurship		2
MGT-4383	Elective Supporting Course / Introduction to Marketing	-	3
ENG-4233	Technical and Business Writing	ENG-1213	3
CSC-4093	Analysis of Algorithms	CSC-2133	3
HUM-4342	Islamic Studies		2
Total			15

Semester - 8			
Code	Course Title	Pre-req	Credit Hrs
CSC-4724	Final Year Project – II	CSC-4712	4
HUM-4352	Professional Practices	-	2
HUM-4372	Ideology and Constitution of Pakistan	-	2
HUM-4362	Civics and Community Engagement	-	2
PAK-4022	Pakistan Studies	-	2
Total			12