

## BS Software Engineering-BSSE

Semesters	Course Code	Course Title	No. of Sections
Semester 1	SECP1013	Introduction to Computing	6
	SECP1011	Introduction to Computing – Lab	6
	SESS1723	Basic Electronics	6
	PSY101	Introduction to Psychology	6
	ENG101	English I	6
	PAK101	Pakistan Studies	6
	ENT101	Fundamentals of Entrepreneurship	6
	SESS1773	Pre-Calculus	2
Semester 2	SECP1023	Programming Fundamentals	10
	SECP1021	Programming Fundamentals – Lab	10
	SESE1113	Software Engineering	10
	ENG102	Communication & Presentation Skills	10
	SEAD1413	Discrete Structure	10
	SESS1713	Calculus and Analytical Geometry	10
	SESS1783	Elementary Algebra	3
Semester 3	SECP2033	Object Oriented Programming	7
	SECP2031	Object Oriented Programming - Lab	7
	SEAD3423	Introduction to Database Systems	7
	SEAD3421	Introduction to Database Systems - Lab	7
	SESD2213	Software Requirement Engineering	7
	SESS2743	Linear Algebra	7

	SEGE1913	Introduction to Business	3
	SEGE3963	Fundamental of Marketing	2
	SEGE1973	Financial Accounting	2
Semester 4	SECP2043	Data Structure & Algorithms	9
	SECP2041	Data Structure & Algorithms – Lab	9
	SESD2222	Software Design & Architecture	9
	SESD2221	Software Design & Architecture – Lab	9
	SESD3233	Web Engineering	9
	SEHU2873	Technical and Business Writing	9
	SESS2733	Probability and Statistics	9
Semester 5	SENS3513	Operating Systems	4
	SENS3511	Operating Systems - Lab	4
	SESE2123	Human Computer Interaction	4
	SEST2613	Business Process Engineering	4
	SEAD3233	Artificial Intelligence	2
	SEAD4483	Introduction to Image Processing	2
	SEGE2933	Technology Entrepreneurship	2
	SEGE1923	Human Resource Management	2
	SESM3313	Software Quality Engineering	9
	SENS3523	Computer Comm. and Networks	9
	SENS3521	Computer Comm. and Networks - Lab	9
	SESD3242	Software Construction and Development	9
	SESD3241	Software Construction and Development - Lab	9

Semester 6	SEST4653	Design Patterns	1
	SECP4063	Advance Web Programming	1
	SEAD3443	Introduction to Data Science	1
	SESM3363	Software Quality Assurance	3
	SECP3053	Mobile Application Development	3
	SESS3763	Operations Research	4
	SESS3753	Stochastic Processes	5
Semester 7	SENS4533	Information Security	3
	SESM4323	Software Project Management	3
	SESE4143	Software Re-engineering	3
	SEAD3453	Introduction to Machine Learning	3
	SESE4153	Object Oriented Software Engineering	1
	SESD3253	Software Testing	2
	SESD4913	Final Year Project I	1
Semester 8	SEGE3953	Professional Practices	4
	SESD4923	Final Year Project II	1
	SEGE4963	Organizational Behavior and Culture	3
	SEGE3993	Fundamentals of Enterprise Resource Planning	1
	SEAD4463	Introduction to Natural Language Processing	2
	SEAD4473	Introduction to Deep Learning	2
	SECP4073	Programming for Big Data	2
	SESD3253	Introduction to Cloud Computing	1
	SEST4693	Introduction to Data Warehousing and Mining	1