

Course Offering
Semester: Fall 2025
Program:BS Software Engineering

S.#	Code	Course Title	Status	No. of Sections	Pre-Req.	Co-Req.	Semester	Batch
1.	SE1133	Introduction to Programming	Major	4	Nil	Nil	1	BSE-253
2.	SE1131	Introduction to Programming Lab	Major	5	Nil	Nil	1	BSE-253
3.	SEG1612	Applications of Information & Communication Technologies	General Education	4	Nil	Nil	1	BSE-253
4.	SEG1611	Applications of Information & Communication Technologies Lab	General Education	5	Nil	Nil	1	BSE-253
5.	SEG1513	Calculus and Analytical Geometry	General Education	4	Nil	Nil	1	BSE-253
6.	SEG1022	Ideology and Constitution of Pakistan	General Education	5	Nil	Nil	1	BSE-253
7.	SEG1113	Functional English	General Education	4	Nil	Nil	1	BSE-253
8.	SE1143	Object Oriented Programming	Major	2	SE1133	SE1141	2	BSE-251
9.	SE1141	Object Oriented Programming Lab	Major	2	SE1131	SE1143	2	BSE-251
10.	SEG1012	Islamic Studies/Ethics	General Education	2	Nil	Nil	2	BSE-251

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11.	HMSE1010	Taleem Ul Quran	General Education	2	Nil	Nil	2	BSE-251
12.	SEG1123	Expository Writing	General Education	2	SEG1113	Nil	2	BSE-251
13.	SEG1412	Sociology	General Education	2	Nil	Nil	2	BSE-251
14.	SEG1573	Discrete Structures	General Education	2	Nil	Nil	2	BSE-251
15.	MTSE1033	Linear Algebra	Allied	2	SEG1513	Nil	2	BSE-251
16.	SE2143	Data Structures	Major	4	SE1143	SE2141	3	BSE-243
17.	SE2141	Data Structures Lab	Major	5	SE1141	SE2143	3	BSE-243
18.	SE2313	Database Systems	Major	4	SE1133	SE2311	3	BSE-243
19.	SE2311	Database Systems Lab	Major	5	SE1131	SE2313	3	BSE-243
20.	SE2223	Software Engineering	Major	4	SE1133	Nil	3	BSE-243
21.	SEG2212	Personal Grooming	General Education	4	Nil	Nil	3	BSE-243
22.	SEG2712	Entrepreneurship	General Education	4	Nil	Nil	3	BSE-243
23.	MTSE2063	Probability and Statistics	Allied	4	SEG1513	Nil	3	BSE-243
24.	SEG2812	Civics and Professional Ethics	General Education	2	Nil	Nil	4	BSE-241
25.	SE2512	Digital Logic Design	Major	2	SE1133	SE2511	4	BSE-241

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26.	SE2511	Digital Logic Design Lab	Major	3	SE1131	SE2512	4	BSE-241
27.	SE2262	Software Requirement Engineering	Major	2	SE2223	SE2261	4	BSE-241
28.	SE2261	Software Requirement Engineering Lab	Major	3	SE2223	SE2262	4	BSE-241
29.	SE2772	Computer Networks	Major	2	SE1133	SE2771	4	BSE-241
30.	SE2771	Computer Networks Lab	Major	3	SE1131	SE2772	4	BSE-241
31.	MTSE2053	Multivariable Calculus	Allied	2	Nil	Nil	4	BSE-241
32.	SE2412	Operating Systems	Major	2	SE2143	SE2411	4	BSE-241
33.	SE2411	Operating Systems Lab	Major	3	SE2141	SE2412	4	BSE-241
34.	SE3712	Information Security	Major	4	SE1133	SE3711	5	BSE-233
35.	SE3711	Information Security Lab	Major	5	SE1131	SE3712	5	BSE-233
36.	SE3313	Software Design and Architecture	Major	4	SE2223	Nil	5	BSE-233
37.	SE3163	Analysis of Algorithms	Major	4	SE2223	Nil	5	BSE-233
38.	SE3522	Computer Organization and Assembly Language	Major	4	SE2223	SE3521	5	BSE-233
39.	SE3521	Computer Organization and Assembly Language Lab	Major	5	SE2223	SE3522	5	BSE-233
40.	SE3432	Parallel and Distributed Computing	Major	4	SE2223	SE3431	5	BSE-233
41.	SE3431	Parallel and Distributed Computing Lab	Major	5	SE2223	SE3432	5	BSE-233

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42.	SE3272	HCI and Computer Graphics	Major	4	SE2223	SE3271	5	BSE-233
43.	SE3271	HCI and Computer Graphics Lab	Major	5	SE2223	SE3272	5	BSE-233
44.	SE3613	Software Quality Engineering	Core	2	SE2223	Nil	6	BSE-231
45.	SE3512	Software Construction and Development	Core	2	SE3312	SE3511	6	BSE-231
46.	SE3511	Software Construction and Development Lab	Core	3	SE3311	SE3512	6	BSE-231
47.	SE3523	Web Engineering	Core	2	SE2223	Nil	6	BSE-231
48.	SE3923	Simulation and Modeling	SE Domain	2	SE2053	Nil	6	BSE-231
49.	SE4193	Mobile Application Development	Elective	2	SE2313	Nil	6	BSE-231
50.	SE4813	Artificial Intelligence	Elective	2	SE2143	Nil	6	BSE-231
51.	SE4273	Software Project Management	Core	3	SE2223	Nil	7	BSE-223
52.	SE4283	Software Re-Engineering	Core	3	SE3512	Nil	7	BSE-223
53.	SE3833	Business Process Engineering	SE Domain	3	SE3263	Nil	7	BSE-223
54.	SE4912	Design Project (Part-I)	D. Project	1	SE3312	Nil	7	BSE-223
55.	ACSE3003	Financial Accounting	G. Edu.	3	Nil	Nil	7	BSE-223
56.	SE4893	Penetration Testing	Elective	3	SE3773	Nil	7	BSE-223
57.	MGSE1003	Introduction to Management	G. Edu.	2	Nil	Nil	8	BSE-221

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58.	SE4924	Design Project (Part-II)	D. Project	1	SE4912	Nil	8	BSE-221
59.	SE4573	Blockchain Technology	Elective	2	SE3713	Nil	8	BSE-221