

Course Offering
Semester: Spring 2026
Program:BS Software Engineering

S.#	Code	Course Title	Status	No of Sections	Pre-Req.	Co-Req.	Semester
1.	SE1133	Introduction to Programming	Major	2	Nil	Nil	1
2.	SE1131	Introduction to Programming Lab	Major	3	Nil	Nil	1
3.	SEG1612	Applications of Information and Communication Technologies	General	2	Nil	Nil	1
4.	SEG1611	Applications of Information and Communication Technologies Lab	General	3	Nil	Nil	1
5.	SEG1513	Calculus and Analytical Geometry	General	2	Nil	Nil	1
6.	SEG1022	Ideology and Constitution of Pakistan	General	2	Nil	Nil	1
7.	SEG1113	Functional English	General	2	Nil	Nil	1
8.	SE1143	Object Oriented Programming	Major	4	SE1133	SE1141	2
9.	SE1141	Object Oriented Programming Lab	Major	5	SE1133	SE1143	2
10.	SEG1012	Islamic Studies/Ethics	General	4	Nil	Nil	2
11.	SEG1021	Fehm-ul-Quran-I	General	4	Nil	Nil	2
12.	SEG1123	Expository Writing	General	4	SEG1113	Nil	2
13.	SEG1032	Pakistan Studies	General	4	Nil	Nil	2
14.	SEG1573	Discrete Structures	General	4	Nil	Nil	2
15.	SEG1312	Applied Physics	General	4	Nil	SEG1311	2

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16.	SEG1311	Applied Physics Lab	General	4	Nil	SEG1312	2
17.	SE2143	Data Structures	Major	2	SE1143	SE2141	3
18.	SE2141	Data Structures Lab	Major	2	SE1143	SE2143	3
19.	SE2313	Database Systems	Major	2	SE1133	SE2311	3
20.	SE2311	Database Systems Lab	Major	2	SE1133	SE2313	3
21.	SE2223	Software Engineering	Major	2	SE1133	Nil	3
22.	SEG2212	Personal Grooming	General	2	Nil	Nil	3
23.	SEG2712	Entrepreneurship	General	2	Nil	Nil	3
24.	MTSE2063	Probability and Statistics	Allied	2	SEG1513	Nil	3
25.	SEG2812	Civics and Professional Ethics	General	4	Nil	Nil	4
26.	SE2512	Digital Logic Design	Major	4	SE1133	SE2511	4
27.	SE2511	Digital Logic Design Lab	Major	4	SE1133	SE2512	4
28.	SE2262	Software Requirement Engineering	Major	4	SE2223	SE2261	4
29.	SE2261	Software Requirement Engineering Lab	Major	4	SE2223	SE2262	4
30.	SE2772	Computer Networks	Major	4	SE1133	SE2771	4
31.	SE2771	Computer Networks Lab	Major	4	SE1133	SE2772	4
32.	MTSE2053	Multivariable Calculus	Allied	4	Nil	Nil	4
33.	SE2412	Operating Systems	Major	4	SE2143	SE2411	4
34.	SE2411	Operating Systems Lab	Major	4	SE2143	SE2412	4
35.	SE3712	Information Security	Major	2	SE1133	SE3711	5
36.	SE3711	Information Security Lab	Major	2	SE1133	SE3712	5
37.	SE3313	Software Design and Architecture	Major	2	SE2223	Nil	5

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38.	SE3163	Analysis of Algorithms	Major	2	SE2223	Nil	5
39.	SE3522	Computer Organization and Assembly Language	Major	2	SE2223	SE3521	5
40.	SE3521	Computer Organization and Assembly Language Lab	Major	2	SE2223	SE3522	5
41.	SE3432	Parallel and Distributed Computing	Major	2	SE2223	SE3431	5
42.	SE3431	Parallel and Distributed Computing Lab	Major	2	SE2223	SE3432	5
43.	SE3272	HCI and Computer Graphics	Major	2	SE2223	SE3271	5
44.	SE3271	HCI and Computer Graphics Lab	Major	2	SE2223	SE3272	5
45.	SE3612	Software Quality Engineering	Major	3	SE2223	SE3611	6
46.	SE3611	Software Quality Engineering Lab	Major	4	SE2223	SE3612	6
47.	SE3512	Software Construction and Development	Major	3	SE3313	SE3511	6
48.	SE3511	Software Construction and Development Lab	Major	4	SE3313	SE3512	6
49.	SE3542	Web Engineering	Major	3	SE2223	SE3521	6
50.	SE3541	Web Engineering Lab	Major	4	SE2223	SE3522	6
51.	SE3343	Automated Software Testing	Elective	3	SE2053	Nil	6
52.	SE3812	Artificial Intelligence	Major	3	SE2143	SE3811	6
53.	SE3811	Artificial Intelligence Lab	Major	4	SE2143	SE3812	6
54.	SE4273	Software Project Management	Core	2	SE2223	Nil	7
55.	SE4283	Software Re-Engineering	Core	2	SE3512	Nil	7
56.	SE3833	Business Process Engineering	SE Domain	2	SE3263	Nil	7
57.	SE4912	Design Project (Part-I)	D. Project	1	SE3312& 90 Cr.	Nil	7

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58.	ACSE3003	Financial Accounting	Core	2	Nil	Nil	7
59.	SE4563	Cloud Computing	Elective	2	SE3773	Nil	7
60.	MGSE1003	Introduction to Management	Core	3	Nil	Nil	8
61.	SE4924	Design Project (Part-II)	D. Project	1	SE4912	Nil	8
62.	SE4573	Blockchain Technology	Elective	3	SE3713	Nil	8