

Course Offering
Semester: Fall 2026
Program:BS Software Engineering

Sr.	Code	Course Title	Status	Sections	Pre-Req.	Co-Req.	Semester
1.	SE1133	Introduction to Programming	Major	4	Nil	SE1131	1
2.	SE1131	Introduction to Programming Lab	Major	5	Nil	SE1133	1
3.	SEG1612	Applications of Information and Communication Technologies	General	4	Nil	SEG1612	1
4.	SEG1611	Applications of Information and Communication Technologies Lab	General	5	Nil	SEG1612	1
5.	SEG1513	Calculus and Analytic Geometry	General	4	Nil	Nil	1
6.	SEG1022	Ideology and Constitution of Pakistan	General	4	Nil	Nil	1
7.	SEG1113	Functional English	General	4	Nil	Nil	1
8.	MTCS1003	Basic Mathematics	General	1	Nil	Nil	1
9.	SE1143	Object Oriented Programming	Major	2	SE1133	SE1141	2
10.	SE1141	Object Oriented Programming Lab	Major	3	SE1133	SE1143	2
11.	SEG1012	Islamic Studies/Ethics	General	2	Nil	Nil	2

Sr.	Code	Course Title	Status	Sections	Pre-Req.	Co-Req.	Semester
12.	SEG1021	Fehm-ul-Quran I	General	2	Nil	Nil	2
13.	SEG1123	Expository Writing	General	2	SEG1113	Nil	2
14.	SEG1032	Pakistan Studies	General	2	Nil	Nil	2
15.	SEG1573	Discrete Structures	General	2	Nil	Nil	2
16.	SEG1312	Applied Physics	General	2	Nil	SEG1311	2
17.	SEG1311	Applied Physics Lab	General	2	Nil	SEG1312	2
18.	MTCS1103	Basic Mathematics	General	-	MTCS1003	Nil	2
19.	SE2143	Data Structures	Major	4	SE1143	SE2141	3
20.	SE2141	Data Structures Lab	Major	5	SE1143	SE2143	3
21.	SE2313	Introduction to Database Systems	Major	4	SE1133	SE2311	3
22.	SE2311	Introduction to Database Systems Lab	Major	5	SE1133	SE2313	3
23.	SE2223	Software Engineering	Major	4	SE1133	Nil	3
24.	MTSE1033	Linear Algebra	General	4	SEG1513	Nil	3
25.	SEG1412	Sociology	General	4	Nil	Nil	3

Sr.	Code	Course Title	Status	Sections	Pre-Req.	Co-Req.	Semester
26.	SEG1031	Fehm-ul-Quran II	Allied	4	Nil	Nil	3
27.	SEG2812	Civics and Professional Ethics	General	2	Nil	Nil	4
28.	SE2512	Digital Logic Design	Major	2	SE1133	SE2511	4
29.	SE2511	Digital Logic Design Lab	Major	2	SE1133	SE2512	4
30.	SE2262	Software Requirement Engineering	Major	2	SE2223	SE2261	4
31.	SE2261	Software Requirement Engineering Lab	Major	2	SE2223	SE2262	4
32.	SE2772	Computer Networks	Major	2	SE1133	SE2771	4
33.	SE2771	Computer Networks Lab	Major	2	SE1133	SE2772	4
34.	MTSE2053	Multivariable Calculus	Allied	2	Nil	Nil	4
35.	SE2412	Operating Systems	Major	2	SE2143	SE2411	4
36.	SE2411	Operating Systems Lab	Major	2	SE2143	SE2412	4
37.	SE3712	Information Security	Major	3	SE1133	SE3711	5
38.	SE3711	Information Security Lab	Major	4	SE1133	SE3712	5
39.	SE3313	Software Design and Architecture	Major	3	SE2223	Nil	5

Sr.	Code	Course Title	Status	Sections	Pre-Req.	Co-Req.	Semester
40.	SE3163	Analysis of Algorithms	Major	3	SE2143	Nil	5
41.	SE3522	Computer Organization and Assembly Language	Major	3	SE1133	SE3521	5
42.	SE3521	Computer Organization and Assembly Language Lab	Major	4	SE1133	SE3522	5
43.	SE3432	Parallel and Distributed Computing	Major	3	SE1133	SE3431	5
44.	SE3431	Parallel and Distributed Computing Lab	Major	4	SE1133	SE3432	5
45.	SE3272	HCI and Computer Graphics	Major	3	SE2223	SE3271	5
46.	SE3271	HCI and Computer Graphics Lab	Major	4	SE2223	SE3272	5
47.	SE3612	Software Quality Engineering	Major	2	SE2223	SE3611	6
48.	SE3611	Software Quality Engineering Lab	Major	2	SE2223	SE3612	6
49.	SE3512	Software Construction and Development	Major	2	SE3313	SE3511	6
50.	SE3511	Software Construction and Development Lab	Major	2	SE3313	SE3512	6
51.	SE3542	Web Engineering	Major	2	SE2223	SE3521	6
52.	SE3541	Web Engineering Lab	Major	2	SE2223	SE3522	6
53.	SE3343	Automated Software Testing	Elective	2	SE2223	Nil	6

Sr.	Code	Course Title	Status	Sections	Pre-Req.	Co-Req.	Semester
54.	SE3812	Artificial Intelligence	Major	2	SE2143	SE3811	6
55.	SE3811	Artificial Intelligence Lab	Major	2	SE2143	SE3812	6
56.	SE4272	Software Project Management	Major	3	SE2223	SE4271	7
57.	SE4271	Software Project Management Lab	Major	4	SE2223	SE4272	7
58.	SE4882	Data Science	Major	3	SE1133	SE4881	7
59.	SE4881	Data Science Lab	Major	4	SE1133	SE4882	7
60.	SE4912	Design Project (Part-I)	D. Project	1	SE3313 & 90 Cr.	Nil	7
61.	SE4192	Mobile Application Development	Major	3	SE1133	SE4191	7
62.	SE4191	Mobile Application Development Lab	Major	4	SE1133	SE4192	7
63.	SE4743	Internet of Things	Elective	3	SE2772	Nil	7
64.	HMSE4033	Technical and Business Writing	Allied	3	SE1133	SE4882	7
65.	MGSE1003	Introduction to Management	Core	2	Nil	Nil	8
66.	SE4924	Design Project (Part-II)	D. Project	1	SE4912	Nil	8
67.	SE4573	Blockchain Technology	Elective	2	SE3713	Nil	8