

Course Offering
Semester: Spring 2026
Program: BS Computer Engineering

S.#	Code	Course Title	Status	No of Sections	Pre-Req.	Co-Req.	Semester
1.	CPE1021	Workshop Practice	Eng. Foundation	1	Nil	Nil	2
2.	MCPE1033	Linear Algebra	Natural Sciences	1	CPEG1513	Nil	2
3.	CPE1213	Circuit Analysis	Eng. Foundation	1	CPEG1312	CPE1211	2
4.	CPE1211	Circuit Analysis Lab	Eng. Foundation	2	CPEG1311	CPE1213	2
5.	CCPE1123	Computer Programming	Comp. & Info. Science	1	CPEG1612	CCPE1121	2
6.	CCPE1121	Computer Programming Lab	Comp. & Info. Science	2	CPEG1611	CCPE1123	2
7.	CPEG1022	Ideology and Constitution of Pakistan	General	1	Nil	Nil	2
8.	MCPE1043	Applied Differential Equations	Natural Sciences	1	CPEG1513	Nil	2
9.	HCPE1071	Occupational Health and Safety	MDEE - I	1	Nil	Nil	2

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10.	CPE2133	Data Structures and Algorithms	Eng. Foundation	1	CPE2123/CPE2053	CPE2131	4
11.	CPE2131	Data Structures and Algorithms Lab	Eng. Foundation	1	CPE2121/CPE2053	CPE2133	4
12.	CPE3413	Operating Systems	CPE Core	1	CCPE1122	CPE3411	4
13.	CPE3411	Operating Systems Lab	CPE Core	1	CCPE1121	CPE3413	4
14.	CPE2313	Digital Logic Design	Eng. Foundation	1	Nil	CPE2311	4
15.	CPE2311	Digital Logic Design Lab	Eng. Foundation	2	Nil	CPE2313	4
16.	MCPE3072	Numerical Analysis	MDEE- II	1	CPEG1513	Nil	4
17.	CPEG2523	Probability and Statistics	General	1	CPEG1513	Nil	4
18.	CPE3623	Digital Signal Processing	CPE Core	1	CPE2613	CPE3621	6
19.	CPE3621	Digital Signal Processing Lab	CPE Core	1	CPE2611	CPE3623	6
20.	CPE3713	Computer Communications and Networks	CPE Core	1	CPEG1612	CPE3711	6
21.	CPE3711	Computer Communications and Networks Lab	CPE Core	1	CPEG1611	CPE3713	6
22.	CPE3633	Artificial Intelligence	CPE Core	1	CPEG2523	CPE3631	6
23.	CPE3631	Artificial Intelligence Lab	CPE Core	1	CPEG2523	CPE3633	6
24.	CPE4513	Database Management Systems	CPE Core	1	CCPE1122	CPE4511	6
25.	CPE4511	Database Management Systems Lab	CPE Core	1	CCPE1121	CPE4513	6

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26.	CPEG1032	Pakistan Studies	General	1	Nil	Nil	6
27.	CPE4912	Design Project - I	CPE Core	1	90 Cr. Hrs	Nil	8
28.	CPE4000	Internship	Core	1	90 Cr. Hrs & with No Registration in Current Semester	Nil	8
29.	CPE4924	Design Project - II	CPE Core	1	CPE4912	Nil	8
30.	CPEG2812	Civics and Professional Ethics	General	1	Nil	Nil	8
31.	CPE4543	Cloud and Distributed Computing	CPE Depth Elective	1	Nil	CPE4541	8
32.	CPE4541	Cloud and Distributed Computing Lab	CPE Depth Elective	1	Nil	CPE4543	8
33.	CPE3633	Artificial Intelligence	CPE Core	1	CPEG2523	CPE3631	8
34.	CPE3631	Artificial Intelligence Lab	CPE Core	1	CPEG2523	CPE3633	8
35.	CPE3812	Open – Source Intelligence	CPE Depth Elective	1	Nil	CPE3811	8
36.	CPE3811	Open – Source Intelligence Lab	CPE Depth Elective	1	Nil	CPE3812	8