

Course Offering
Semester: Fall 2024
Program:BS (CS)

S.#	Code	Course Title	Status	Section	Pre-Req.	Co-Req.	Semester	Remarks
1.	CS1133	Introduction to Programming	Major Course	4	Nil	CS1131	1	Click here to enter text.
2.	CS1131	Introduction to Programming Lab	Major Course	5	Nil	CS1133	1	Click here to enter text.
3.	CSG1022	Ideology and Constitution of Pakistan	General Education	4	Nil	Nil	1	Click here to enter text.
4.	CSG1113	Functional English	General Education	4	Nil	Nil	1	Click here to enter text.
5.	CSG1513	Calculus and Analytical Geometry	General Education	4	Nil	Nil	1	Click here to enter text.
6.	CSG1612	Applications of Information & Communication Technologies	General Education	4	Nil	CSG1611	1	Click here to enter text.
7.	CSG1611	Applications of Information & Communication Technologies Lab	General Education	5	Nil	CSG1612	1	Click here to enter text.
8.	CSG1312	Applied Physics	General Education	4	Nil	CSG1311	1	Click here to enter text.
9.	CSG1311	Applied Physics Lab	General Education	8	Nil	CSG1312	1	Max 25 Students in each Section
10.	CSG1612	Applications of Information & Communication Technologies	General Education	2	Nil	Nil	2	For the students of Batch 241
11.	CSG1611	Applications of Information & Communication Technologies Lab	General Education	3	Nil	Nil	2	For the students of Batch 241
12.	CS1143	Object Oriented Programming	Major Course	2	CS1133	CS1141	2	Click here to enter text.
13.	CS1141	Object Oriented Programming	Major	3	CS1131	CS1143	2	Click here to enter

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		Lab	Course					text.
14.	CSG1123	Expository Writing	General Education	2	CSG1113	Nil	2	Click here to enter text.
15.	CSG1412	Sociology	General Education	2	Nil	Nil	2	Click here to enter text.
16.	CSG1573	Discrete Structures	General Education	2	CS1133	Nil	2	Click here to enter text.
17.	MTCS1033	Linear Algebra	Allied Courses	2	CSG1513	Nil	2	Click here to enter text.
18.	CSG1012	Islamic Studies/Ethics	General Education	2	Nil	Nil	2	Click here to enter text.
19.	CSG1010	Taleem ul Quran	General Education	2	Nil	Nil	2	Click here to enter text.
20.	CSG1612	Applications of Information & Communication Technologies	General Education	2	Nil	Nil	3	For the students of Batch 233
21.	CSG1611	Applications of Information & Communication Technologies Lab	General Education	3	Nil	Nil	3	For the students of Batch 233
22.	CS2143	Data Structures	Major Course	4	Nil	Nil	3	Click here to enter text.
23.	CS2141	Data Structures Lab	Major Course	5	Nil	Nil	3	Click here to enter text.
24.	MTCS2063	Probability and Statistics	Allied Courses	4	Nil	Nil	3	Click here to enter text.
25.	CSG2212	Personal Grooming	General Education	4	Nil	Nil	3	Click here to enter text.
26.	CS2313	Introduction to Database Systems	Major Course	4	CS1143	CS2311	3	Click here to enter text.
27.	CS2311	Introduction to Database Systems Lab	Major Course	5	CS1141	CS2313	3	Click here to enter text.
28.	CS2512	Digital Logic Design	Major Course	4	Nil	Nil	3	For the students of Batch 233. 2 Credit Hour Course

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29.	CS2511	Digital Logic Design Lab	Major Course	7	Nil	Nil	3	For the students of Batch 233. Max 30 Students in each Section.
30.	CSG2712	Entrepreneurship	General Education	4	Nil	Nil	3	Click here to enter text.
31.	CS2513	Digital Logic Design	Core	2	CS2053	CS2511	4	For the students of Batch 231. 3 Credit Hour Course
32.	CS2511	Digital Logic Design Lab	Core	3	CS2053	CS2513	4	For the students of Batch 231. Max 30 Students in each Section
33.	CS2223	Software Engineering-I	Core	2	CS2313	Nil	4	Click here to enter text.
34.	MTCS1053	Multi Variate Calculus	CS Supporting	2	MTCS3063 & MTCS2063	Nil	4	Click here to enter text.
35.	CS3413	Operating Systems	Core	2	CS2143	CS3411	4	Click here to enter text.
36.	CS3411	Operating Systems Lab	Core	2	CS2141	CS3413	4	Click here to enter text.
37.	CS3773	Computer Networks	Core	2	CS2143	CS3771	4	Click here to enter text.
38.	CS3771	Computer Networks Lab	Core	2	CS2141	CS3773	4	Click here to enter text.
39.	CS2523	Computer Organization and Assembly Language	Core	3	CS2513	CS2521	5	Click here to enter text.
40.	CS2521	Computer Organization and Assembly Language Lab	Core	4	CS2511	CS2523	5	Click here to enter text.
41.	CS3163	Design and Analysis of Algorithms	Core	3	CS2143	Nil	5	Click here to enter text.
42.	CS3613	Theory of Automata & Formal	Core	3	CS2143	Nil	5	Click here to enter

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		Lang.						text.
43.	CS3713	Introduction to Information Security and forensics	Core	3	CS3773	Nil	5	Click here to enter text.
44.	CS3283	Graph Algorithms	CS Supporting	3	CS2143	Nil	5	Click here to enter text.
45.	CS3433	Parallel and Distributed Computing	Core	2	CS2523	Nil	6	Click here to enter text.
46.	CS4813	Artificial Intelligence	Core	2	CS3163	CS4811	6	Click here to enter text.
47.	CS4811	Artificial Intelligence Lab	Core	2	CS3163	CS4813	6	Click here to enter text.
48.	CS3833	Theory of Programming Languages	CS Supporting	2	CS3163	Nil	6	Click here to enter text.
49.	CS3193	Web Application Development	Elective	2	CS2313	Nil	6	Click here to enter text.
50.	CS4613	Machine Learning	Elective	2	CS2313	Nil	6	Click here to enter text.
51.	ACCS3003	Financial Accounting	Uni. Elective	2	MTCS1013	Nil	6	Click here to enter text.
52.	CS4623	Compiler Construction	Core	3	CS3613	Nil	7	Click here to enter text.
53.	CS4912	Design Project (Part-I)	Core	1	CS2223	Nil	7	Min 90 Credit Hours Required for Registration.
54.	CS3273	Human Computer Interaction	Elective	3	CS2223	Nil	7	Click here to enter text.
55.	HMCS2013	Professional Ethics and Legal Issues	G. Edu	3	Nil	Nil	7	Click here to enter text.
56.	MGCS4003	Entrepreneurship and Innovation	Uni Elective	3	Nil	Nil	7	Click here to enter text.
57.	CS3213	Object Oriented Analysis and Design	Elective	3	CS2313	Nil	7	Click here to enter text.
58.	CS4743	Internet of the Things	Elective	2	C3773	Nil	8	Click here to enter

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								text.
59.	CS4924	Design Project (Part-II)	Core	1	CS4912	Nil	8	Click here to enter text.
60.	HMCS1033	Personal Management and Grooming	G. Edu	2	Nil	Nil	8	Click here to enter text.