

Course Offering
Semester: Fall 2026
Program: BS Cyber Security

Sr.	Code	Course Title	Status	Section	Pre-Req.	Co-Req.	Semester
1.	CYG1113	Functional English	Humanities	2	Nil	Nil	1
2.	CYG1022	Ideology and Constitution of Pakistan	General Education	2	Nil	Nil	1
3.	CYG1312	Applied Physics	Natural Sciences	2	Nil	CYG1311	1
4.	CYG1311	Applied Physics Lab	Natural Sciences	2	Nil	CYG1312	1
5.	CYG1612	Applications of Information and Communication Technologies	Humanities	2	Nil	CYG1611	1
6.	CYG1611	Applications of Information and Communication Technologies Lab	Humanities	3	Nil	CYG1612	1
7.	CY1133	Programming Fundamentals	Computer and Information Sciences	2	Nil	CY1131	1
8.	CY1131	Programming Fundamentals Lab	Computer and Information Science	3	Nil	CY1133	1
9.	MTCS1003	Basic Mathematics	-	1	Nil	Nil	1
10.	CYG1032	Pakistan Studies	General Education	1	Nil	Nil	2
11.	CYG1123	Expository Writing	Humanities	1	CYG1113	Nil	2

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12.	CY1123	Object Oriented Programming	Computing Core	1	CY1133	CY1121	2
13.	CY1121	Object Oriented Programming Lab	Computing Core	2	CY1131	CY1123	2
14.	CY2313	Digital Logic Design	Computing Core	1	Nil	CY2311	2
15.	CY2311	Digital Logic Design Lab	Computing Core	2	Nil	CY2313	2
16.	CYG2812	Civics and Professional Ethics	Humanities	1	Nil	Nil	2
17.	CY2053	Discrete Structures	Computing Core	1	Nil	Nil	2
18.	MTCS1103	Basic Mathematics - II	-	1	MTCS1003	Nil	2
19.	CYG2712	Entrepreneurship	Management Sciences	2	Nil	Nil	3
20.	CY2133	Data Structures and Algorithms	Computing Core	2	CY1123 & CY2053	CY2131	3
21.	CY2131	Data Structures and Algorithms Lab	Computing Core	3	CY1121 & CY2053	CY2133	3
22.	CY2202	Fundamentals of Cyber Security	CY Core	2	Nil	CY2201	3
23.	CY2201	Fundamentals of Cyber Security Lab	CY Core	3	Nil	CY2202	3
24.	CYG1513	Calculus and Analytical Geometry	Natural Sciences	2	Nil	Nil	3
25.	CYG1212	Personal Grooming	Humanities	2	Nil	Nil	3

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26.	CYG2523	Probability and Statistics	Computing Core	2	Nil	Nil	3
27.	CYG1021	Fehm-ul-Quran I	General Education	2	Nil	Nil	3
28.	MTCY2033	Linear Algebra	Natural Sciences	1	CYG1513	Nil	4
29.	CYG1412	Sociology	General Education	1	Nil	Nil	4
30.	CYG1012	Islamic Studies/ Ethics	General Education	1	Nil	Nil	4
31.	CY4153	Design and Analysis of Algorithms	Computing Core	1	CY2133	Nil	4
32.	CY3713	Computer Communications and Networks	Computing Core	1	Nil	CY3711	4
33.	CY3711	Computer Communications and Networks Lab	Computing Core	1	Nil	CY3713	4
34.	CY2212	Information Security	CY Core	1	Nil	CY2211	4
35.	CY2211	Information Security Lab	CY Core	1	Nil	CY2212	4
36.	CY2322	Computer Organization and Assembly Language	Computing Core	2	CY2313	CY2321	5
37.	CY2321	Computer Organization and Assembly Language Lab	Computing Core	3	CY2311	CY2322	5
38.	CY3812	Open-Source Intelligence	CY Core	2	Nil	CY3811	5
39.	CY3811	Open-Source Intelligence Lab	CY Core	3	Nil	CY3812	5

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40.	CY3413	Operating Systems	Computing Core	2	CY1133	CY3411	5
41.	CY3411	Operating Systems Lab	Computing Core	3	CY1131	CY3413	5
42.	CY3222	Network Security	CY Core	2	CY3713	CY3221	5
43.	CY3221	Network Security Lab	CY Core	3	CY3711	CY3222	5
44.	CY4513	Database Systems	Computing Core	2	CY1133	CY4511	5
45.	CY4511	Database Systems Lab	Computing Core	3	CY1131	CY4513	5
46.	MTCY2043	Multivariable Calculus	Interdisciplinary course	1	CYG1513	Nil	6
47.	CY3632	Artificial Intelligence	Computing Core	1	CYG2523	CY3631	6
48.	CY3631	Artificial Intelligence Lab	Computing Core	1	CYG2523	CY3632	6
49.	CY3822	Ethical Hacking	CY Core	1	Nil	CY3821	6
50.	CY3821	Ethical Hacking Lab	CY Core	1	Nil	CY3822	6
51.	CY3232	Secure Software Design and Development	CY Core	1	CY2202	CY3231	6
52.	CY3231	Secure Software Design and Development Lab	CY Core	1	CY2201	CY3232	6
53.	CY4523	Software Engineering	CY Core	1	CY1133	Nil	6
54.	CY3243	Information Assurance	CY Core	1	Nil	Nil	6

