

Course Offering
Semester: Fall 2026
Program: BS Robotics and Intelligent Systems

Sr.	Code	Course Title	Status	Section	Pre-Req.	Co-Req.	Semester
1.	RISG1612	Applications of Information and Communication Technologies	General	1	Nil	RISG1611	1
2.	RISG1611	Applications of Information and Communication Technologies Lab	General	2	Nil	RISG1612	1
3.	RIS1002	Introduction to Robotics	Major	1	Nil	Nil	1
4.	RISG1593	Basic Mathematics	General	1	Nil	Nil	1
5.	RISG1113	Functional English	General	1	Nil	Nil	1
6.	RISG1312	Applied Physics	General	1	Nil	RISG1311	1
7.	RISG1311	Applied Physics Lab	General	2	Nil	RISG1312	1
8.	RIS1301	Workshop Practice	Major	2	Nil	Nil	1
9.	RIS1102	Programming Fundamentals	Major	1	Nil	RIS1101	2
10.	RIS1101	Programming Fundamentals Lab	Major	1	Nil	RIS1102	2
11.	RIS1403	Circuit Analysis	Major	1	Nil	RIS1401	2

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12.	RIS1401	Circuit Analysis Lab	Major	1	Nil	RIS1403	2
13.	RISG1513	Calculus and Analytical Geometry	General	1	Nil	Nil	2
14.	RISG2712	Entrepreneurship	General	1	Nil	Nil	2
15.	RISG1012	Islamic Studies / Ethics	General	1	Nil	Nil	2
16.	RISG1021	Fehm-ul-Quran I	General	1	Nil	Nil	2
17.	RIS1311	Computer-Aided Drawing	Interdisciplinary / Allied Courses	1	Nil	Nil	2
18.	RISG1412	Sociology	General	1	Nil	Nil	2
19.	RIS2112	Object Oriented Programming	Major	1	Nil	RIS2111	3
20.	RIS2111	Object Oriented Programming Lab	Major	2	Nil	RIS2112	3
21.	RIS2412	Basic Electronics	Major	1	Nil	RIS2411	3
22.	RIS2411	Basic Electronics Lab	Major	2	Nil	RIS2412	3
23.	RISG1032	Pakistan Studies	General	1	Nil	Nil	3
24.	RIS2203	Applied Differential Equation	IDC/Allied Courses	1	RISG 1513	Nil	3
25.	RIS2332	Engineering Statics	Major	1	Nil	Nil	3

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26.	RIS2391	Computer-Aided Design Lab	Interdisciplinary / Allied Courses	2	Nil	Nil	3
27.	RISG1123	Expository Writing	General	1	Nil	Nil	3
28.	RISG1031	Fehm-ul-Quran-II	General	1	Nil	Nil	3
29.	RISG1412	Sociology	General	1	Nil	Nil	3
30.	RIS2123	Data Structures and Algorithms	Major	1	Nil	RIS2121	4
31.	RIS2423	Digital Logic Design	Major	1	RIS2412	RIS2421	4
32.	RIS2213	Linear Algebra	Interdisciplinary / Allied Courses	1	Nil	Nil	4
33.	RISG1022	Ideology and Constitution of Pakistan	General	1	Nil	Nil	4
34.	RIS2342	Engineering Dynamics	Major	1	RIS2332	Nil	4
35.	RISG2812	Civics and Professional Ethics	General	1	Nil	Nil	4
36.	RIS2121	Data Structures and Algorithms Lab	Major Computing	1	Nil	RIS2123	4
37.	RIS2421	Digital Logic Design Lab	Major	1	Nil	RIS2423	4
38.	RIS2341	Engineering Mechanics Lab	Major	1	Nil	Nil	4
39.	RIS3223	Probability and Statistics	Interdisciplinary / Allied	1	Nil	Nil	5

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			Courses				
40.	RIS3433	Electrical Machines	Major	1	Nil	RIS3431	5
41.	RIS3431	Electrical Machines Lab	Major	1	Nil	RIS3433	5
42.	RIS3031	Robotics Design Lab – I	Major	1	Nil	Nil	5
43.	RIS3701	Health, Safety and Environment	Interdisciplinary / Allied Courses	1	Nil	Nil	5
44.	RIS3362	Robotics Machine Design-I	Major	1	Nil	Nil	5
45.	RIS3502	Microprocessors and Interfacing	Major	1	Nil	RIS3501	5
46.	RIS3501	Microprocessors and Interfacing Lab	Major	1	Nil	RIS3502	5
47.	RIS3353	Robot Kinematics	Major	1	Nil	Nil	5