

BS Computer Science				
Semester 1	Semester: Spring 2026			
	Course Code	Course Title	Credit Hours	Section
	CP103	Introduction to Computing	3	10
	CP101	Introduction to Computing - Lab	1	10
	GE102	Basic Electronics	2	10
	GE101	Basic Electronics - Lab	1	10
	ENG110	Functional English	3	10
	PAK102	Ideology and Constitution of Pakistan	2	10
	AL143	Discrete Structures	3	10
	Only for Medical background students			
	MAT103	Pre-Calculus	3	3
Semester 2				
	Course Code	Course Title	Credit Hours	Sections
	CP113	Programming Fundamentals	3	22
	CP111	Programming Fundamentals-LAB	1	22
	AR102	Digital Logic and Design	2	22
	AR101	Digital Logic and Design-LAB	1	22
	ENG211	Expository Writing	3	22
	MAT113	Calculus and Analytical Geometry	3	22
	CCE201	Civics and Community Engagement	2	22
	Only for Medical background students			
	MAT123	Elementary Algebra	3	5
	Course Code	Course Title	Credit Hours	Sections
	CP223	Object Oriented Programming	3	4
	CP221	Object Oriented Programming Lab	1	4

Semester 3	AR223	Computer Org. & Assembly Lang.	3	4
	AR221	Computer Org. & Assembly Lang. Lab	1	4
	MAT243	Multivariate Calculus	3	4
	SEP203	Professional Practices	3	4
	ENT102	Entrepreneurship	2	4
	MAT253	Probability & Statistics	3	4
Semester 4				
	Course Code	Course Title	Credit Hours	Sections
	CP233	Data Structures	3	20
	CP231	Data Structures - Lab	1	20
	DB203	Database Systems	3	20
	DB201	Database Systems - Lab	1	20
	SE203	Software Engineering	3	20
	MAT233	Linear Algebra	3	20
	ISL201	Islamic Studies	2	20
	SS102	Fundamentals of Psychology	3	9
	SS103	Sociology	3	4
	SS202	Introduction to Economics	3	7
Semester 5				
	Course Code	Course Title	Credit Hours	Sections
	AR332	Operating Systems	3	4
	AR331	Operating Systems - Lab	1	4
	ENG203	Technical and Business Writing	3	4
	AL312	Artificial Intelligence	3	4
	AL311	Artificial Intelligence - Lab	1	4
	NS312	Information Security	2	4
	NS311	Information Security - Lab	1	4

	PBD372	Web Technologies	3	2
	NS342	Cyber Security	3	2
	PBD352	3D Computer Graphics	3	1
	AI303	Programming for Artificial Intelligence	3	2
	SD423	Software Requirements Engineering	3	1
Semester 6				
	Course Code	Course Title	Credit Hours	Sections
	CSAL3243	Artificial Intelligence (AI-T)	3	15
	CSAL3241	Artificial Intelligence (AI-Lab)	1	15
	CSNC2413	Computer Communications and Networks (CCN-T)	3	15
	CSNC2411	Computer Communications and Networks (CCN-Lab)	1	15
	CSAL3253	Theory of Automata (TOA)	3	15
	CSSS2743	Probability and Statics	3	15
	CSCS3553	Operating Systems	3	1
	CSCS3551	Operating Systems - Lab	1	1
	CSAL3233	Design and Analysis of Algorithms	3	1
	CSDS4473	Big Data Analytics	3	5
	CSNC3453	Introduction to Cloud Computing	3	6
	CSSE3163	Advanced Web Programming	3	4
Semester 7				
	Course Code	Course Title	Credit Hours	Sections
	CSNC3413	Information Security (ISEC)	3	6
	CSCS4573	Compiler Construction (CC)	3	6
	CSAL4263	Numerical Computing (NM)	3	6
	CSSE4173	Final Year Project 1 (FYP-I)	3	1
	CSMG3943	Organizational Behavior and Culture (OBC)	3	3
	CSMG2913	Technology Entrepreneurship (TENT)	3	3

	CSDB4313	Introduction to Data Science (IDS)	3	2
	CSAL4243	Introduction to Machine Learning	3	2
	CSAL4253	Introduction to Natural Language Processing	3	2
Semester 8				
	Course Code	Course Title	Credit Hours	Sections
	CSGE4963	Professional Practices(PP)	3	15
	CSCS2543	Parallel and Distributed Computing	3	15
	CSSE4183	Final Year Project 2 (FYP-II)	3	1
	CSHU4213	Business Law	3	3
	CSMG4913	Fundamentals of Enterprise Resource Planning	3	3
	CSHU3873	Speak Well - English Conversation	3	4
	CSMG3953	Fundamentals of Marketing	13	5
	CSNC4403	Introduction to Cryptography	3	4
	CSAL4333	Intoduction to Deep Learning	3	3
	CSSE4193	Software Testing	3	6
	CSST4713	DevOps Fundamentals	3	2