

BS Computer Science				
Semester 1	Semester Fall 2025			
	Course Code	Theory of Automata (TOA)	Credit Hours	Section
	CP103	Introduction to Computing	3	25
	CP101	Introduction to Computing - Lab	1	25
	GE102	Basic Electronics	2	25
	GE101	Basic Electronics - Lab	1	25
	ENG110	Functional English	3	25
	PAK102	Ideology and Constitution of Pakistan	2	25
	AL143	Discrete Structures	3	25
	Only for Medical background students			
	MAT103	Pre-Calculus	3	7
Semester 2				
	Course Code	Course Title	Credit Hours	Sections
	CP113	Programming Fundamentals	3	4
	CP111	Programming Fundamentals-LAB	1	4
	AR102	Digital Logic and Design	2	4
	AR101	Digital Logic and Design-LAB	1	4
	ENG211	Expository Writing	3	4
	MAT113	Calculus and Analytical Geometry	3	4
	CCE201	Civics and Community Engagement	2	4
	Only for Medical background students			
	MAT123	Elementary Algebra	3	1
	Course Code	Course Title	Credit Hours	Sections

Semester 3	CP223	Object Oriented Programming	3	21
	CP221	Object Oriented Programming Lab	1	21
	AR223	Computer Org. & Assembly Lang.	3	21
	AR221	Computer Org. & Assembly Lang. Lab	1	21
	MAT243	Multivariate Calculus	3	21
	SEP203	Professional Practices	3	21
	ENT102	Entrepreneurship	2	21
	MAT253	Probability & Statistics	3	21
Semester 4				
	Course Code	Course Title	Credit Hours	Sections
	CP233	Data Structures	3	5
	CP231	Data Structures - Lab	1	5
	DB203	Database Systems	3	5
	DB201	Database Systems - Lab	1	5
	SE203	Software Engineering	3	5
	MAT233	Linear Algebra	3	5
	ISL201	Islamic Studies	2	5
	SS102	Fundamentals of Psychology	3	3
	SS202	Introduction to Economics	3	2
	Course Code	Course Title	Credit Hours	Sections

Semester 5	CSCS3553	Operating Systems (OS-T) – Theory	3	17
	CSCS3551	Operating Systems (OS-Lab) – Lab	1	17
	CSSE3113	Introduction to Software Engineering - I (ISD)	3	17
	CSAL3233	Design and Analysis of Algorithm (AA)	3	17
	CSSS2763	Differential Equation (DE)	3	17
	CSSE3143	Web Application Development (WAD)	3	5
	CSCP3063	Mobile Application Development (MAD)	3	4
	CSAL3203	Introduction to Image Processing	3	4
	CSST3633	Game Development (GD)	3	4
Semester 6				
	Course Code	Course Title	Credit Hours	Sections
	CSAL3243	Artificial Intelligence (AI-T)	3	7
	CSAL3241	Artificial Intelligence (AI-Lab)	1	7
	CSNC2413	Computer Communications and Networks (CCN-T)	3	7
	CSNC2411	Computer Communications and Networks (CCN-Lab)	1	7
	CSAL3253	Theory of Automata (TOA)	3	7
	CSSS2743	Probability and Statics	3	7
	CSDS4473	Big Data Analytics	3	3
	CSAL4323	3D Computer Graphics	3	1
	CSNC3453	Introduction to Cloud Computing	3	3
7				
	Course Code	Course Title	Credit Hours	Sections
	CSNC3413	Information Security (ISEC)	3	15
	CSCS4573	Compiler Construction (CC)	3	15
	CSAL4263	Numerical Computing (NM)	3	15

Semester	CSSE4173	Final Year Project 1 (FYP-I)	3	1
	CSMG3943	Organizational Behavior and Culture (OBC)	3	8
	CSMG2913	Technology Entrepreneurship (TENT)	3	7
	CSDB4313	Introduction to Data Science (IDS)	3	5
	CSAL4243	Introduction to Machine Learning	3	5
	CSAL4253	Introduction to Natural Language Processing	3	5
Semester 8				
	Course Code	Course Title	Credit Hours	Sections
	CSGE4963	Professional Practices(PP)	3	7
	CSCS2543	Parallel and Distributed Computing	3	7
	CSSE4183	Final Year Project 2 (FYP-II)	3	1
	CSHU4213	Business Law	3	3
	CSMG4913	Fundamentals of Enterprise Resource Planning	3	2
	CSHU3873	Speak Well - English Conversation	3	2
	CSNC4403	Introduction to Cryptography	3	2
	CSAL4333	Intoduction to Deep Learning	3	2
	CSSE4193	Software Testing	3	3