

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

Semester 3	Course Code	Course Title	Credit Hours	Sections
	CP223	Object Oriented Programming	3	1
	CP221	Object Oriented Programming Lab	1	1
	AR223	Computer Org. & Assembly Lang.	3	1
	AR221	Computer Org. & Assembly Lang. Lab	1	1
	MAT243	Multivariate Calculus	3	1
	SEP203	Professional Practices	3	1
	ENT102	Entrepreneurship (GE-X)	2	1
	MAT253	Probability & Statistics	3	1
Semester 4				
	Course Code	Course Title	Credit Hours	Sections
	CSCP2033	Data Structure & Algorithms (DSA-T) – Theory	3	2
	CSCP2031	Data Structure & Algorithms (DSLAB) – Lab	1	2
	CSDB2313	Introduction to Database Systems (DB-T) – Theory	3	2
	CSDB2311	Introduction to Database Systems (DB-LAB) – Lab	1	2
	ENG203	Technical and Report Writing	3	1
	CSSS2753	Linear Algebra (LA)	3	1
	CSSE4153	Human Computer Interaction	3	1
	Course Code	Course Title	Credit Hours	Sections

Semester 5	CSCS3553	Operating Systems (OS-T) – Theory	3	1
	CSCS3551	Operating Systems (OS-Lab) – Lab	1	1
	CSSE3113	Introduction to Software Engineering - I (ISD)	3	1
	CSAL3233	Design and Analysis of Algorithm (AA)	3	1
	CSSS2763	Differential Equation (DE)	3	1
Semester 6				
	Course Code	Course Title	Credit Hours	Sections
	CSAL3243	Artificial Intelligence (AI-T)	3	1
	CSAL3241	Artificial Intelligence (AI-Lab)	1	1
	CSNC2413	Computer Communications and Networks (CCN-T)	3	1
	CSNC2411	Computer Communications and Networks (CCN-Lab)	1	1
	CSAL3253	Theory of Automata (TOA)	3	1
	CSSS2743	Probability and Statics	3	1
	CSDS4473	Big Data Analytics	3	1
Semester 7				
	Course Code	Course Title	Credit Hours	Sections
	CSNC3413	Information Security (ISEC)	3	1
	CSCS4573	Compiler Construction (CC)	3	1
	CSAL4263	Numerical Computing (NM)	3	1
	CSMG3943	Organizational Behavior and Culture (OBC)	3	1
	Course Code	Course Title	Credit Hours	Sections

Semester 8	CSGE4963	Professional Practices(PP)	3	1
	CSCS2543	Parallel and Distributed Computing	3	1
	CSMG1923	Financial Accounting	3	1
	CSSE4193	Software Testing	3	1