

BS Computer Science

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Semester 1	Course Code	Course Title	Sections
	CP103	Introduction to Computing	12
	CP101	Introduction to Computing - Lab	12
	GE102	Basic Electronics	12
	GE101	Basic Electronics - Lab	12
	ENG110	Functional English	12
	PAK102	Ideology and Constitution of Pakistan	12
	AL143	Discrete Structures	12
	Only for Medical background students		
	MAT103	Pre-Calculus	3
Semester 2	Course Code	Course Title	Sections
	CSCP1013	Programming Fundamentals	26
	CSCP1011	Programming Fundamentals-LAB	26
	CSCS2523	Digital Logic and Design	26
	CSCS2521	Digital Logic and Design-LAB	26
	ENG102	Communication & Presentation Skills	26
	CSSS1713	Calculus and Analytical Geometry	26
	CSMG1923	Financial Accounting	8
	PSY101	Introduction to Psychology	9
	CSMG1933	Introduction to Business	9
	Only for Medical background students		
	CSSS1853	Elementary Algebra	5
	Semester 3	Course Code	Course Title
CSCP2023		Object Oriented Programming	8

Semester 3	CSCP2021	Object Oriented Programming Lab	8
	CSCS3543	Computer Org. & Assembly Lang.	8
	CSCS3541	Computer Org. & Assembly Lang. Lab	8
	CSSS2733	Multivariate Calculus	8
	CSAL1213	Discrete Structures	8
	ISL201	Islamic Studies	8
Semester 4	Course Code	Course Title	Sections
	CSCP2033	Data Structure & Algorithms (DSA-T) – Theory	16
	CSCP2031	Data Structure & Algorithms (DSLAB) – Lab	16
	CSDB2313	Introduction to Database Systems (DB-T) – Theory	16
	CSDB2311	Introduction to Database Systems (DB-LAB) – Lab	16
	ENG203	Technical and Report Writing	16
	CSSS2753	Linear Algebra (LA)	16
	CSST3663	Microcontroller Programming and Interfacing (MPI)	3
	CSAL4323	3D Computer Graphics (3DCG)	2
	CSDS4423	Programming for Big Data (PBD)	4
	CSSE4153	Human Computer Interaction	4
	CSSS2743	Probability and Statistics (PROB)	Repeaters
	CSCS2533	Computer Architecture	1
	CSIP3113	Digital Signal Processing	2
5	Course Code	Course Title	Sections
	CSCS3553	Operating Systems (OS-T) – Theory	8
	CSCS3551	Operating Systems (OS-Lab) – Lab	8
	CSSE3113	Introduction to Software Engineering - I (ISD)	8
	CSAL3233	Design and Analysis of Algorithm (AA)	8

Semester	CSSS2763	Differential Equation (DE)	8
	CSSE3143	Web Application Development (WAD)	2
	CSCP3063	Mobile Application Development (MAD)	2
	CSAL3203	Introduction to Image Processing (IIP)	2
	CSST3633	Game Development (GD)	1
	CSDB3363	Data Analysis Techniques	1
Semester 6	Course Code	Course Title	Sections
	CSAL3243	Artificial Intelligence (AI-T)	13
	CSAL3241	Artificial Intelligence (AI-Lab)	13
	CSNC2413	Computer Communications and Networks (CCN-T)	13
	CSNC2411	Computer Communications and Networks (CCN-Lab)	13
	CSAL3253	Theory of Automata (TOA)	13
	CSHU2813	Technical and Business Writing (ENG-3)	13
	CSAL3273	Mathematics For Machine Learning	2
	CSAL3213	Advanced 3D Modeling for Games (ADMG)	6
	CSNC3453	Cloud Computing	5
Semester 7	Course Code	Course Title	Sections
	CSNC3413	Information Security (ISEC)	4
	CSCS4573	Compiler Construction (CC)	4
	CSAL4263	Numerical Computing (NM)	4
	CSSE4173	Final Year Project 1 (FYP-I)	1
	CSMG3943	Organizational Behavior and Culture (OBC)	2
	CSMG2913	Technology Entrepreneurship (TENT)	2
	CSDB4313	Introduction to Data Science (IDS)	1
	CSCS4583	Digital Forensics	1

	CSSE4193	Software Testing	1
	CSAL4253	Introduction to Natural Language Processing	1
Semester 8	Course Code	Course Title	Sections
	CSGE4963	Professional Practices(PP)	10
	CSCS2543	Parallel and Distributed Computing	10
	CSSE4183	Final Year Project 2 (FYP-II)	1
	CSHU4213	Business Law	3
	CSMG4913	Fundamentals of Enterprise Resource Planning	4
	CSHU3873	Speak Well - English Conversation	3
	CSAL4243	Introduction to Machine Learning	4
	CSSE4123	Software Quality Assurance	3
	CSAL4333	Intoduction to Deep Learning	3