BSCS Scheme of Study for semesters Fall 2025 onwards

Semester 1

Course	Type	CH
EN-100: Functional English	GE	3
PK-100: Ideology & Constitution of Pakistan	GE	2
MA-101: Calculus & Analytical Geometry	GE	3
CSC-110: Applications of ICT	GE	2+1
FQ-101: Understanding Quran-I	GE	0+1
CSC-104: Problem Solving & Programming	CC	3+1
Credit Hours		16

Semester 2

Course	Type	CH
EN-200: Expository Writing	GE	3
IS-100: Islamic Studies / Ethics	GE	2
Social Sciences Elective	GE	2
PH-110: Introductory Mechanics and Waves	GE	3
FQ-102: Understanding Quran-II	GE	0+1
MA-202: Multivariable Calculus	MS	3
CSC-121: Object Oriented Programming	CC	3+1
Credit Hours		18

Semester 3

Course	Type	CH
MA-203: Discrete Mathematics	GE	3
EN-299: Technical and Business Writing	MS	3
CSC-103: Introduction to Computer Org.	CC	3
CSC-211: Data Structures	CC	3+1
CSC-212: Human Computer Interaction	DC	3
Credit Hours		16

Semester 4

Course	Type	CH
SW-100: Civics and Community Engagement	GE	2
PS-101: Pakistan Studies	GE	2
MA-104: Fundamentals of Linear Algebra	MS	3
CSC-222: Analysis & Design of Software Systems	CC	3
CSC-224: Database Systems	CC	3+1
CSC-313: Computer Architecture	DC	3
Credit Hours		17

Semester 5

Course	Type	CH
ST-101: Probability and Statistics	MS	3
CSC-322: Software Construction	DC	2+1
CSC-226: Operating Systems	CC	2+1
CSC-311: Analysis & Design of Algorithms	CC	3
CSC-414: Artificial Intelligence	CC	3
Domain Elective 1	DE	3
Credit Hours		18

Semester 6

Course	Type	CH
CSC-331: Theory of Automata	DC	3
CSC-325: Advanced Database Systems	DC	2+1
CSC-215: Computer Org. & Assembly Language	CC	2+1
CSC-312: Computer Communications & Networks	CC	3
Domain Elective 2	DE	3
Domain Elective 3	DE	3
Credit Hours		18

Semester 7

Course	Type	CH
MS-100: Entrepreneurship	GE	2
Arts and Humanities Elective	GE	2
CSC-411: Compiler Construction	DC	3
CSC-489: Project-I	CC	2
Domain Elective 4	DE	3
Domain Elective 5	DE	3
Credit Hours		15

Semester 8

Course	Type	CH
Elective Supporting	ES	3
CSC-412: Introduction to Cyber Security	CC	3
CSC-490: Project-II	CC	4
Domain Elective 6	DE	3
Domain Elective 7	DE	3
Credit Hours		16

The students must do an internship of six to eight weeks during their degree. The internships will be coordinated by the internship coordinator.

Category	Abbr.	Cr. Hrs
Computing Core	(CC)	46
Domain Core	(DC)	18
Domain Elective	(DE)	21
Maths and Supporting	(MS)	12
Elective Supporting	(ES)	3
General Education	(GE)	34
Total		134