

Bachelor of Science (Computer Science)

Program Mission

To provide the theoretical and practical knowledge and skills required for a professional career in computing. The degree program follows Computer Science in breadth covering core computer science and its application within a code of ethics.

Career Opportunities

The graduates holding Bachelor of Science (Computer Science) degree will be able to adopt a wide range of careers, including computer programmer, software Engineer Software developer Web Game and Mobile App developer Software quality engineer, and graphics designer etc.

Award of Degree

For the award of Bachelor of Science (Computer Science) degree, a student must have

- Passed courses totaling at least 133 credit hours, including all core courses
- Earned CGPA of at least 2.00



Eligibility for FYP-I: 95 CH

Domain	Cr. Hrs
Computing Core	52
General Education	30
Maths and Supporting Courses	12
Domain Core	18
Domain Elective	18
Elective Supportive Courses	3
Total	133

Tentative Study Plan-Bachelor of Science (Computer Science)

Code	Title	Cr.Hrs		Prereq
Semester-I				
CL1000	Introduction to Information and Communication Technology	0	1	
CS1002	Programming Fundamentals	3	1	
NS1001	Applied Physics	3	0	
MT1003	Calculus and Analytical Geometry	3	0	
SS1012	Functional English	2	1	
SS1013	Ideology and Constitution of Pakistan	2	0	
	Total	13	3	
Semester-II				
CS1004	Object Oriented Programming	3	1	CS1002
EE1005	Digital Logic Design	3	1	
MT1006	Multivariable Calculus	3	0	MT1003
SS1007	Islamic Studies/Ethics	2	0	
SS1014	Expository Writing	2	1	
SS3002	Civics and Community Engagement	2	0	
	Total	15	3	
Semester-III				
CS2001	Data Structures	3	1	CS1004
EE2003	Computer Organization and Assembly Language	3	1	EE1005
CS1005	Discrete Structures	3	0	
MT1004	Linear Algebra	3	0	
CS3005	Theory of Automata	3	0	
SS/ MGxxxx	SS/MG Elective - I	2	0	
	Total	17	2	
Semester-IV				
CS2005	Database Systems	3	1	CS2001
AI2002	Artificial Intelligence	3	1	
CS2006	Operating Systems	3	1	CS2001
CS3009	Software Engineering	3	0	
MT2005	Probability and Statistics	3	0	
	Total	15	3	
Semester-V				
EE2013	Computer Architecture	3	0	EE2003
CS3014	Applied Human Computer Interaction	3	0	
CS2009	Design and Analysis of Algorithms	3	0	CS2001
CS3001	Computer Networks	3	1	CS2001
SS2007	Technical and Business Writing	3	0	SS1014
	Total	15	1	
Semester-VI				
CS4031	Compiler Construction	3	0	CS3005
CS4087	Advanced DBMS	3	0	CS2005
CS3006	Parallel and Distributed Computing	3	0	CS2006
CSxxxx	CS Elective - I	3	0	
CSxxxx	CS Elective - II	3	0	
CSxxxx	Computing Internship	0	1	
	Total	15	1	
Semester-VII				
CS4091	Final Year Project - I	0	3	
CS3002	Entrepreneurship	3	0	
CSxxxx	CS Elective - III	3	0	
CSxxxx	CS Elective - IV	3	0	
SS/ MGxxxx	SS/MG Elective - II	3	0	
	Total	12	3	
Semester-VIII				
CS4092	Final Year Project - II	0	3	CS4091
CS3002	Information Security	3	0	
CS4001	Professional Practices	3	0	
CSxxxx	CS Elective - V	3	0	
CSxxxx	CS Elective - VI	3	0	
	Total	12	3	