

BSCS 4-Year Program Outline (Total Credit Hours: 140)

Semester – I			Semester – II		
Code	Course Title	Credit Hrs	Code	Course Title	Credit Hrs
BSCS1010	Computational Thinking I	2	BSCS1102	Probability and Statistics	3
BSCS1011	Calculus I	3	LARTXXX	Pakistan Studies	3
BDMA1301	Computer Graphics I	2	BSCS1114	Physics II	4
BSCS1081	Introduction to Computer Science	3	LARTXXX	English II	2
LART101	English 1	2	BSCS1013	Computational Thinking II	2
BSCS1113	Physics I	4	EEXXXX	Fundamentals of Logic Design	2
EEXXXX	Applied Electronics	2	BDMA1403	Film & Video I	2
Total Credit Hours			Total Credit Hours		
18			18		

Semester – III			Semester – IV		
Code	Course Title	Credit Hrs	Code	Course Title	Credit Hrs
BSCS1104	Linear Algebra	3	BSCS1041	Computer Organization and Assembly Language Programming	3
BSCS1120	Website Development	2	BSCS1051	Database Systems	3
BSCS1012	Object Oriented Programming	4	BSCS2011	Data Structures & Algorithms	4
LARTXXX	English III	2	EEXXXX	Embedded Systems	2
LARTXXX	Islamic Studies	3	LARTXXX	Political Science I	3
BSCS1103	Discrete Mathematics	3	LARTXXX	Liberal Arts Elective I	3
Total Credit Hours			Total Credit Hours		
17			18		

Semester – V			Semester – VI		
Code	Course Title	Credit Hrs	Code	Course Title	Credit Hrs
BSCS1042	Operating Systems	3	ENTXXXX	Entrepreneurial Theory & Practices	2
BSCS2081	Design & Analysis of Algorithms	3	BSCS2061	Artificial Intelligence	3
BSCS XXXX	CS Elective - I	3	BSCS XXXX	CS Elective - II	3
LARTXXX	Political Science II	3	BSCS XXXX	CS Elective - III	3
BSCS1043	Digital Logic	4	BSCS2071	Software Engineering	3
BDXXXX	Design Core	2	BSCS2022	Computer Networks	3
Total Credit Hours			Total Credit Hours		
18			17		

Semester – VII			Semester – VIII		
Code	Course Title	Credit Hrs	Code	Course Title	Credit Hrs
BSCSXXXX	CS Elective - IV	3	BSCS2102	Numerical Methods	3
BSCS XXXX	CS Elective - V	3	BSCS XXXX	CS Elective - VI	3
BSCS2990	Senior Project	3	BSCS2991	Senior Project	3
LARTXXX	Liberal Arts Elective II	3	LARTXXX	Liberal Arts Elective III	3
BSCS2082	Automata & Complexity	3	LARTXXX	Liberal Arts Elective IV	3
ENTXXXX	Entrepreneurship Core II	2	ENTXXXX	Entrepreneurship Core III	2
Total Credit Hours			Total Credit Hours		
17			17		