

Faculty of Information Technology
Semester: Spring 2021
Program: BS Computer Science

<u>S #</u>	<u>Course Code</u>	<u>Course Title</u>	<u>Sections</u>	<u>Semester</u>
1	CSCS1513	Introduction to Computing	5	1
2	CSCS1511	Introduction to Computing Lab	5	1
3	CSHU2833	Logic Thinking (UCP Elective I)	5	1
4	CSHU1823	English Composition & Comprehension	5	1
5	CSSS1723	Basic Electronics	5	1
6	CSHU1863	Islamic and Religious Studies	5	1
7	CSCP1013	Programming Fundamentals	18	2
8	CSCP1011	Programming Fundamentals Lab	18	2
9	CSCS2523	Digital Logic Design	18	2
10	CSCS2521	Digital Logic Design Lab	18	2
11	CSSS1713	Calculus and Analytical Geometry	18	2
12	CSHU1873	Communication & Presentation Skills	18	2
13	CSHU1893	Pakistan Studies	18	2
14	CSSS1853	Elementary Algebra	2	2
15	CSCP2023	Object Oriented Programming (OOP-T) –Theory	5	3
16	CSCP2021	Object Oriented Programming (OOP-LAB) – Lab	5	3
17	CSCS3543	Computer Organization and Assembly Language (COAL-T) – Theory	5	3
18	CSCS3541	Computer Organization and Assembly Language (COAL-LAB) – LAB	5	3
19	CSSS2733	Multivariate Calculus (MVC) (CS Supporting-I)	5	3

20	CSAL1213	Discrete Structure (DS)	5	3
	Uni-Elective, select any 1 course from the following:			
21	CSMG1923	Financial Accounting (FA) (D)	1	3
22	CSHU1843	Introduction to Psychology (PSY) (A, B, C)	3	3
23	CSMG1933	Introduction to Business (ITOB) (E)	1	3
24	CSCP2033	Data Structure & Algorithms (DSA-T) – Theory	10	4
25	CSCP2031	Data Structure & Algorithms (DSLAB) – Lab	10	4
26	CSDB2313	Introduction to Database Systems (DB-T) – Theory	10	4
27	CSDB2311	Introduction to Database Systems (DB-LAB) – Lab	10	4
28	CSSS2743	Probability and Statistics (PROB)	10	4
29	CSSS2753	Linear Algebra (LA)	10	4
	CS- Elective Select any 1 course from the following:			
30	CSST3633	Game Development (GD) (I, J)	2	4
31	CSST3663	Microcontroller Programming and Interfacing (MPI) – (H, I)	2	4
32	CSAL4323	3D Computer Graphics (3DCG) (A, B, C)	3	4
33	CSDS4423	Programming for Big Data (PBD) (F, G, H)	3	4
34	CSCS3553	Operating Systems (OS-T) – Theory	4	5
35	CSCS3551	Operating Systems (OS-Lab) – Lab	4	5
36	CSSE3113	Software Engineering - I (ISD)	4	5
37	CSAL3233	Design and Analysis of Algorithm (AA)	4	5
38	CSSS2763	Differential Equation (DE) (CS Supporting-II)	4	5

	CS- Elective Select any 1 course from the following:			
39	CSSE3143	Web Application Development (WAD) (A, B)	2	5
40	CSCP3063	Mobile Application Development (MAD) (C, D)	2	5
41	CSAL3243	Artificial Intelligence (AI-T)	6	6
42	CSAL3241	Artificial Intelligence (AI-Lab)	6	6
43	CSNC2413	Computer Communications and Networks (CCN-T)	6	6
44	CSNC2411	Computer Communications and Networks (CCN-Lab)	6	6
45	CSAL3253	Theory of Automata (TOA)	6	6
46	CSHU2813	Technical and Business Writing (ENG-3)	6	6
	CS- Elective Select any 1 course from the following:			
47	CSAL3213	Advanced 3D Modeling for Games (ADMG) (A)	1	6
48	CSAC3613	Computational Geometry for Designing and Animation (CGDA) – (C)	1	6
49	CSDB3363	Data Analysis Techniques (DAT), (B)	1	6
50	CSAL3203	Introduction to Image Processing (IIP) CSAL3203 (D, E, F)	3	6
51	CSNC2413	Computer Communications and Networks (CCN-T)	4	7
52	CSNC2411	Computer Communications and Networks (CCN-Lab)	4	7
53	CSCS4573	Compiler Construction (CC)	4	7
54	CSSE4153	Human Computer Interaction (HCI)	4	7
55	CSSE4173	Final Year Project 1 (FYP-I)	4	7
	Uni- Elective Select any 1 course from the following:			

56	CSMG3943	Organizational Behavior and Culture (OBC) (M, N)	2	7
57	CSMG2913	Technology Entrepreneurship (TENT) – (O, P)	2	7
58	CSGE4963	Professional Practices(PP)	6	8
59	CSSE4183	Final Year Project 2 (FYP-II)	6	8
		CS- Elective Select any 3 courses from the following:		
60	CSSE4123	Software Quality Assurance (SQA) (A, B, C, D, E)	5	8
61	CSSE4193	Software Testing (ST) (A, B, C, D, F)	5	8
62	CSDB4313	Introduction to Data Science (IDS) (C, D, E, F)	4	8
63	CSAL4243	Introduction to Machine Learning (IML) (A, B, E, F)	4	8