

Course Offering
Semester: Fall 2018
Program:BS Computer Science

S.#	Code	Course Title	Status	Section	Pre-Req.	Co-Req.	Semester	Remarks
1.	CS1133	Introduction to Programming	Core	6	Nil	Nil	1	Click here to enter text.
2.	CS1131	Introduction to Programming Lab	Core	8	Nil	CS1133	1	Click here to enter text.
3.	HMC1002	Pakistan Studies	Humanity	6	Nil	Nil	1	Click here to enter text.
4.	HMC1013	English-1	English	6	Nil	Nil	1	Click here to enter text.
5.	MTC1013	Calculus-I	Required	6	Nil	Nil	1	Click here to enter text.
6.	PHC1013	Applied Physics	Required	5	Nil	Nil	1	Click here to enter text.
7.	CS1143	Object Oriented Programming	Core	3	CS1133	Nil	2	Click here to enter text.
8.	CS1141	Object Oriented Programming Lab	Core	4	CS1131	CS1143	2	Click here to enter text.
9.	HMC1012	Islamic Studies/Ethics	Humanity	5	Nil	Nil	2	Click here to enter text.
10.	HMC1023	English-II	English	5	HMC1013	Nil	2	Click here to enter text.
11.	HMC2053	Introduction to Psychology	Humanity	2	Nil	Nil	2	Click here to enter text.
12.	HMC2063	Introduction to Sociology	Humanity	2	Nil	Nil	2	Click here to enter text.
13.	MTC1023	Calculus-II	Required	2	MTC1013	Nil	2	Click here to enter text.
14.	MTC1033	Linear Algebra	Required	4	MTC1013	Nil	2	Click here to enter text.
15.	CS2512	Digital Logic Design	Core	5	Nil	Nil	3	Click here to enter text.
16.	CS2511	Digital Logic Design Lab	Core	8	Nil	CS2512	3	Click here to enter text.
17.	HMC2033	Technical Report Writing	Humanity	6	HMC1013	Nil	3	Click here to enter text.
18.	HMC1033	Personal Mgmt and Grooming	Humanity	6	Nil	Nil	3	Click here to enter text.
19.	CS2313	Introduction to Database Systems	Core	5	CS1133	Nil	3	Click here to enter text.

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20.	CS2311	Introduction to Database Systems Lab	Core	6	CS1131	CS2313	3	Click here to enter text.
21.	CS2143	Data Structures	Core	5	CS1133	Nil	3	Click here to enter text.
22.	CS2141	Data Structures Lab	Core	6	CS1131	CS2143	3	Click here to enter text.
23.	MTC3063	Probability & Statistics	Required	2	MTCS1013	Nil	4	Click here to enter text.
24.	CS2522	Computer Org. & Assembly Language	Core	2	CS2512	Nil	4	Click here to enter text.
25.	CS2521	Computer Org. & Assembly Language Lab	Core	3	CS2511	CS2522	4	Click here to enter text.
26.	CS2053	Discrete Structures	Required	3	Nil	Nil	4	Click here to enter text.
27.	CS2153	Advanced Computer Programming	Core	2	CS1143	Nil	4	Click here to enter text.
28.	CS2151	Advanced Computer Programming Lab	Core	3	CS1141	CS2153	4	Click here to enter text.
29.	SE2223	Software Engineering-I	Core	2	CS1123	Nil	4	Click here to enter text.
30.	MTC2043	Applied Differential Equations	Required	2	MTCS1013	Nil	5	Click here to enter text.
31.	CS3163	Design and Analysis of Algorithms	Core	4	CS2143	Nil	5	Click here to enter text.
32.	CS3413	Operating Systems	Core	4	CS2143	Nil	5	Click here to enter text.
33.	CS3411	Operating Systems Lab	Core	5	CS2141	CS3413	5	Click here to enter text.
34.	CS3513	Computer Architecture	Core	2	CS2512	Nil	5	Click here to enter text.
35.	CS3772	Computer Comm. and Networks	Core	4	CS1133	Nil	5	Click here to enter text.
36.	CS3771	Computer Comm. and Networks Lab	Core	5	Nil	Nil	5	Click here to enter text.
37.	CS3613	Theory of Automata & Formal Lang.	Core	1	MTC2053	Nil	6	Click here to enter text.
38.	SE3213	Object Oriented Analysis and Design	Core	2	SE2223	Nil	6	Click here to enter text.
39.	CS3272	Human Computer Interaction	Core	4	SE2223	Nil	6	Click here to enter text.
40.	CS3271	Human Computer Interaction Lab	Core	5	Nil	CS3272	6	Click here to enter text.
41.	CS3193	Web Application Development	Elective	2	CS1133	Nil	6	Click here to enter text.
42.	CS3191	Web Application Development Lab	Elective	3	CS1131	CS3193	6	Click here to enter text.

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43.	SE3263	Software Requirement Engineering	Elective	0	Nil	Nil	6	Shared with SE-5
44.	SE3823	Agile Software Development	Elective	0	Nil	Nil	6	Shared with SE-6
45.	CS3843	Data Security and Cryptography	Elective	2	MTC1033	Nil	6	Click here to enter text.
46.	CS4883	Introduction to Data Science	Elective	1	MTC1033	Nil	6	Click here to enter text.
47.	ACC2003	Principles of Accounting-I	Elective	3	Nil	Nil	7	Click here to enter text.
48.	SE3223	Formal Software Specification	Elective	0	SE2223	Nil	7	Shared with SE-7
49.	CS3272	Human Computer Interaction	Core	0	SE2223	Nil	7	Shared with Semester -6.
50.	CS3271	Human Computer Interaction Lab	Core	0	Nil	CS3272	7	Shared with Semester -6
51.	CS4623	Compiler Construction	Core	2	CS3613	Nil	7	Click here to enter text.
52.	CS4912	Design Project (Part-I)	Core		Nil	Nil	7	Click here to enter text.
53.	CS3183	Enterprise Application Development	Elective	3	CS1133	Nil	7	Click here to enter text
54.	CS3181	Enterprise Application Development Lab	Elective	4	CS1131	CS3183	7	Click here to enter text
55.	CS4193	Mobile Application Development	Elective	1	CS1133	Nil	7	Click here to enter text.
56.	SE4273	Software Project Management	Elective	0	Nil	Nil	7	Shared with SE-7
57.	CS4813	Artificial Intelligence	Core	2	CS2143	Nil	8	Click here to enter text.
58.	CS4863	Web Security and Forensics	Elective	1	Nil	Nil	8	Click here to enter text.
59.	CS4743	Internet of the Things	Elective	1	Nil	Nil	8	Click here to enter text.
60.	CS4923	Design Project (Part-II)	Core		Nil	Nil	8	Click here to enter text.
61.	MGC1003	Introduction to Management	Elective	2	Nil	Nil	8	Click here to enter text.
62.	SE3633	Software Testing	Elective	0	Nil	Nil	8	Shared with SE-6.
63.	CS4463	Web Frameworks	Elective	1	CS2313	Nil	8	Click here to enter text.