

Batches-2018-2019 BS Computer Science

Semester I (Credit Hours: 14)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-101	Introduction to Information and Communication Technology (ICT)	3(2 + 1)	-NONE-
2	CSC-102	Programming Fundamentals	4 (3 + 1)	-NONE-
3	ENG-101	English Composition and Comprehension	3 (3 + 0)	-NONE-
4	MTS-101	Pre - Calculus	Non - Credit	-NONE-
5	HUM-101	Islamic Studies/Ethics	2 (2 + 0)	-NONE-
6	HUM-102	Pakistan Studies	2 (2 + 0)	NONE-
Total Credit Hours			14	

Semester II (Credit Hours: 16)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-150	Object-Oriented Programming	4 (3 + 1)	CSC-102
2	MTS-150	Calculus and Analytic Geometry	3 (3 + 0)	MTS-101
3	ENG-150	Communication and Presentation Skills	3 (3 + 0)	-NONE-
4	CSC-151	Discrete Structures	3 (3 + 0)	-NONE-
5	PHY-150	Applied Physics	3 (2 + 1)	-NONE-
Total Credit Hours			16	

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Semester III (Credit Hours: 17)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-201	Data Structures	4 (3 + 1)	CSC-102
2	ENG-201	Technical Writing	3 (3 + 0)	-NONE-
3	ESE-201	Digital Logic Design	4 (3 + 1)	-NONE-
4	MTS-201	Multivariate Calculus	3 (3 + 0)	MTS-150
5	<i>SWE-250</i>	<i>Software Engineering</i>	<i>3 (3 + 0)</i>	<i>-NONE-</i>
Total Credit Hours			17	

Semester IV (Credit Hours: 18)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-252	Operating Systems	4 (3 + 1)	-NONE-
2	CSC-250	Computer Architecture & Assembly Language	4 (3 + 1)	ESE-201
3	MTS-250	Linear Algebra	3 (3+ 0)	NONE-
4	CSC-251	Database Systems	4 (3 + 1)	-NONE-
5	xxx-xxx	Uni – Elective - I	3 (3 + 0)	--
Total Credit Hours			18	

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Semester V (Credit Hours: 15)

#	Code	Course Name	Credit Hours	Pre Requisite
1	xxx-xxx	Uni – Elective - II	3 (3 + 0)	--
2	MTS-301	Differential Equations	3 (3 + 0)	MTS-150
3	<i>MTS-351</i>	<i>Probability and Statistics</i>	3 (3 + 0)	<i>-NONE-</i>
4	CSC-301	<i>Design and Analysis of Algorithms</i>	3 (3 + 0)	CSC-102
5	CSC-304	Theory of Automata	3 (3 + 0)	CSC-102
Total Credit Hours			15	

Semester VI (Credit Hours: 20)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-350	Artificial Intelligence	4 (3 + 1)	-NONE-
2	CSC-352	Web Engineering	3 (2 + 1)	CSC-102
3	xxx-xxx	CS – Elective I	3 (3 + 0)	-NONE-
4	CSC-353	Compiler Construction	3 (3 + 0)	CSC-304
5	xxx-xxx	Uni – Elective - III	3 (3 + 0)	-NONE-
6	CSC-302	Computer Networks	4 (3 + 1)	--
Total Credit Hours			20	

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Semester VII (Credit Hours: 15)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-401	Human Computer Interaction	3 (3 + 0)	-NONE-
2	xxx-xxx	CS-Elective-II	3 (3 + 0)	---
3	xxx-xxx	CS-Elective-III	3 (3 + 0)	---
4	xxx-xxx	CS-Elective-IV	3 (3 + 0)	--
5	FYP-401	Project-I	3 (0 + 3)	-NONE-
Total Credit Hours			15	

Semester VIII (Credit Hours: 15)

#	Code	Course Name	Credit Hours	Pre Requisite
1	xxx-xxx	CS Elective-V	3 (3 + 0)	---
2	xxx-xxx	CS Elective-VI	3 (3 + 0)	---
3	xxx-xxx	CS-Elective-VII	3 (3 + 0)	--
4	CSC-452	<i>Parallel & Distributed Computing</i>	3 (3 + 0)	CSC-251 CSC-302
5	FYP-451	Project-II	3 (0 + 3)	FYP-401
Total Credit Hours			15	