

Batches-2018-2019 - BS Software Engineering

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	<i>Programming Fundamentals</i>	4 (3 + 1)	-NONE-
3	ENG-101	<i>English Composition and Comprehension</i>	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	<i>Applied Physics</i>	3 (2 + 1)	-NONE-
Total Credit Hours			16	

Batches-2018-2019 - BS Software Engineering

Semester III (Credit Hours: 16)

#	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	CSC-202	<i>Object-Oriented Analysis and Design</i>	3 (2 + 1)	-NONE-
4	MTS-201	Multivariate Calculus	3 (3 + 0)	MTS-150
5	SWE-250	<i>Software Engineering</i>	3 (3 + 0)	-NONE-
Total Credit Hours			16	

Semester IV (Credit Hours: 17)

#	Code	Course Name	Credit Hours	Pre Requisite
1	CSC-252	Operating Systems	4 (3 + 1)	-NONE-
2	SWE-301	Software Requirements Engineering	3 (3 + 0)	SWE-250
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			17	

Batches-2018-2019 - BS Software Engineering

Semester V (Credit Hours: 19)

#	Code	Course Title	Credit Hours	Pre Requisite
1	SWE-401	Software Design and Architecture	3 (3 + 0)	SWE-250
2	MTS-301	Differential Equations	3 (3 + 0)	NONE-
3	CSC-302	Computer Networks	4 (3 + 1)	-NONE-
4	xxx-xxx	SE Elective- I	3 (3 + 0)	--
5	xxx-xxx	SE Elective- II	3 (3 + 0)	--
6	MTS-351	Probability and Statistics	3 (3 + 0)	-NONE-
Total Credit Hours			19	

Semester VI (Credit Hours: 18)

#	Code	Course Name	Credit Hours	Pre Requisite
1	<i>SWE-450</i>	<i>Software Construction & Development</i>	<i>3 (3 + 0)</i>	CSC-150
2	CSC-352	Web Engineering	3 (2 + 1)	CSC-102
3	xxx-xxx	SE Elective -III	3 (3 + 0)	--
4	xxx-xxx	SE Elective -IV	3 (3 + 0)	--
5	xxx-xxx	Uni -Elective-II	3 (3 + 0)	--
6	<i>SWE-352</i>	<i>Formal Methods in Software Engineering</i>	<i>3 (3 + 0)</i>	-NONE-
Total Credit Hours			18	

Batches-2018-2019 - BS Software Engineering

Semester VII (Credit Hours: 15)

#	Code	Course Title	Credit Hours	Pre Requisite
1	SWE-350	Software Project Management	3 (3 + 0)	SWE-250
2	CSC-401	Human Computer Interaction	3 (3 + 0)	-NONE-
3	xxx-xxx	SE-Elective - V	3 (3 + 0)	--
4	xxx-xxx	Uni -Elective-III	3 (3 + 0)	--
5	FYP-401	Project-I	3 (0 + 3)	-NONE-
Total Credit Hours			15	

Semester VIII (Credit Hours: 15)

#	Code	Course Title	Credit Hours	Pre Requisite
1	SWE-321	Software Re-engineering	3 (3 + 0)	SWE-250
2	SWE-451	Software Quality Engineering	3 (3 + 0)	-NONE-
3	xxx-xxx	SE-Elective-VI	3 (3 + 0)	--
4	xxx-xxx	SE-Elective-VII	3 (3 + 0)	--
5	FYP-451	Project-II	3 (0 + 3)	FYP-401
Total Credit Hours			15	