

Semester wise Road Map - Total Credit Hours 132

1stYear							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs	Pre req.	Code	Course Title	Cr. Hrs	Pre req.
IT1091	Introduction to ICT	2	----	CC1022	Object Oriented Programming	3	CC1021, CC1021L
IT1091L	Introduction to ICT Lab	1	----	CC1022L	Object Oriented Programming Lab	1	CC1021, CC1021L
EN111	English Grammar & Comprehension	3	----	CC1041	Discrete Structures	3	----
MA100	Calculus & Analytical Geometry	3	----	EN125	Composition and Communication	3	EN111
CC1021	Programming Fundamentals	3	----		University Elective – I	3	----
CC1021L	Programming Fundamentals Lab	1	----		University Elective – II	3	----
NS125	Applied Physics	2	----				
NS125L	Applied Physics Lab	1	----				
Semester Credit Hours		16		Semester Credit Hours		16	
2ndYear							
Code	Course Title	Cr. Hrs	Pre req.	Code	Course Title	Cr. Hrs	Pre req.
CC2042	Data Structures & Algorithms	3	CC1022, CC1022L		IT Supporting Course – II (e.g. SE2102 - SRE)	3	----
CC2042L	Data Structures & Algorithms Lab	1	CC1022, CC1022L		IT Supporting Course – I (e.g. IT2234 - Enterprise Systems)	3	----
MA150	Probability & Statistics	3	----	CC3071	Computer Networks	3	----
CC2101	Software Engineering	3	----	CC3071L	Computer Networks Lab	1	----
IT2231	IT Infrastructure	3	----		University Elective – III	3	----
MA210	Linear Algebra	3	----	CC2141	Database Systems	3	CC2042, CC2042L
				CC2141L	Database Systems Lab	1	CC2042, CC2042L
Semester Credit Hours		16		Semester Credit Hours		17	

3 rd Year							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs	Pre req.	Code	Course Title	Cr. Hrs	Pre req.
	IT Elective – I	3	----	IT3161	Web Technologies	3	----
ISL101	Islamic Studies	3	----	IT3072	System and Network Administration	3	CC3011, CC3011L
CC3011	Operating Systems	3	CC2042, CC2042L	IT3072L	System and Network Administration Lab	1	CC3011, CC3011L
CC3011L	Operating Systems Lab	1	CC2042, CC2042L	IT4122	Cyber Security	3	----
IT3142	Database Administration and Management	3	CC2141, CC2141L	EN125	IT Elective – III	3	----
IT3142L	Database Administration and Management Lab	1	CC2141, CC2141L	IT3171	Virtual Systems and Services	3	----
	IT Elective – II	3	----	IT3171L	Virtual Systems and Services Lab	1	----
EN100	English Immersion	0	----		21 st century	0	----
Semester Credit Hours		17		Semester Credit Hours		17	
4 th Year							
Code	Course Title	Cr. Hrs	Pre req.	Code	Course Title	Cr. Hrs	Pre req.
CC4181	Final Year Project – I	3	----	CC4182	Final Year Project – II	3	CC4181
EN220	Research Paper Writing and Presentation	3	EN125		University Elective – IV	3	----
CC3121	Information Security	3	----		IT Elective – V	3	----
	IT Elective – IV	3	----	HU4092	Professional Practices	3	----
IT4191	IT Project Management	3	----	POL101	Pakistan Studies	3	----
	IT Supporting Course – III (e.g. IT4052- Operations Research)	3	----				
Semester Credit Hours		18		Semester Credit Hours		15	