

Program Road Map (Batch # 14)

1 st Year							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prereq.	Code	Course Title	Cr. Hrs	Prereq.
IT1091	Introduction to ICT	2-1	----	CC1022	Object Oriented Programming	3-1	CC1021
EN111	English Grammar and Comprehension	3-0	----	CC1041	Discrete Structures	3-0	----
MA100	Calculus & Analytical Geometry	3-0	----	EN125	Composition and Communication	3-0	EN111
CC1021	Programming Fundamentals	3-1	----		University Elective – 1	3-0	----
NS125	Applied Physics	2-1	----		University Elective – 2	3-0	----
Semester Credit Hours		13-3		Semester Credit Hours		15-1	
2 nd Year							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prereq.	Code	Course Title	Cr. Hrs	Prereq.
CC2042	Data Structures & Algorithms	3-1	CC1022	IT2102	IT Supporting Course – II (e.g. SRE)	3-0	----
MA150	Probability & Statistics	3-0	----	CC4121	Information Security	3-0	----
CC3101	Software Engineering	3-0	----	CC3071	Computer Networks	3-1	----
IT2234	IT Supporting Course – I (e.g. Enterprise Systems)	3-0	----		University Elective – 3	3-0	----
MA210	Linear Algebra	3-0	----	CC2141	Database Systems	3-1	CC2042
Semester Credit Hours		15-1		Semester Credit Hours		15-2	

Total Credit Hours: 132

3 rd Year							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prereq.	Code	Course Title	Cr. Hrs	Prereq.
	IT Elective – 1	3-0	----	IT3161	Web Technologies	3-0	----

ISL101	Islamic Studies	3-0	----	IT3072	System and Network Administration	3-1	CC3011
CC3011	Operating Systems	3-1	CC2042	IT3231	IT Infrastructure	3-0	----
IT3142	Database Administration and Management	3-1	IT2141		IT Elective – 3	3-0	----
	IT Elective – 2	3-0	----	IT3171	Virtual Systems and Services	3-1	----
Semester Credit Hours		15-2		Semester Credit Hours		15-2	
4thYear							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prereq.	Code	Course Title	Cr. Hrs	Prereq.
CC4181	Final Year Project – I	0-3	----	CC4182	Final Year Project – II	0-3	CC4181
EN220	Research Paper Writing and Presentation	3-0	EN125		University Elective – 4	3-0	----
	IT Elective – 4	3-0	----		IT Elective – 5	3-0	----
IT4122	Cyber Security	3-0	CC4121	SE4092	Professional Practices	3-0	----
IT4191	IT Project Management	3-0	----	POL101	Pakistan Studies	3-0	----
IT4052	IT Supporting Course – III (e.g. Operations Research)	3-0					
Semester Credit Hours		15-3		Semester Credit Hours		12-3	