



First Year (29 CH)										
First Semester					Second Semester					المجموع التراكمي
Course	Course Title	Prerequisite	L	CH	Course	Course Title	Prerequisite	L	CH	
103101	Calculus (1)			3	103250	Discrete Mathematics(1)	103101		3	30
601104	Information Technology Fundamentals		+	3	601111	Programming Language(1)	601104	**	3	
9400100	National Education			3	103231	Principles of Statistics	103101		3	
9600102	Computer Skills (Compulsory for IT Majors)	P.T / 9601099	**	3	605161	Introduction to Data Communication & Networking	9600102+601104		3	
9400123	Communication Skills in English (1)	P.T / 9402099		3	606170	Data Science Fundamentals	601104		3	
Total				15	Total				15	

Second Year (35 CH)										
First Semester					Second Semester					المجموع التراكمي
Course	Course Title	Prerequisite	L	CH	Course	Course Title	Prerequisite	L	CH	
9400108	life skills			2	103241	Linear Algebra (1)	103101		3	64
402201	Communication Skills for IT	9400123		3	601221	Data Structure	601212+103250	*	3	
601212	Programming Language(2)	601111	**	3	601281	Database (1)	601212	*	3	
601241	Logic Design computer	103250+ 601104	*	3	606271	Big Data	606172 + 606170	**	3	
606272	Statistics for Data Science	103231	+	3	9400113	Communication Skills in Arabic (1)	P.T / 9401099		3	
9300105	Enterpreunership and Innovation			2	9xxxxx	General Elective(1)			3	
Total				16	Total				18	

Third Year (35 CH)										
First Semester					Second Semester					المجموع التراكمي
Course	Course Title	Prerequisite	L	CH	Course	Course Title	Prerequisite	L	CH	
601325	Algorithms Design & Analysis	601221		3	603392	Software Engineering	603391		3	99
603391	System Analysis & Design	601281+601221		3	9400109	Military Sciences			3	
606315	Programming for Data Science	606271 + 606272	**	3	606361	Machine learning	606360	+	3	
606360	Artificial Intelligence	601221+ 606170		3	606362	Deep Learning	606360	+	3	
606375	Data Engineering and Analysis	606272	**	3	606374	Data Mining and Warehousing	606375+601281	+	3	
9400107	Leadership and social responsibility			2	6xxxxx	Department Elective(1)			3	
Total				17	Total				18	

Fourth Year (34 CH)										
First Semester					Second Semester					المجموع التراكمي
Course	Course Title	Prerequisite	L	CH	Course	Course Title	Prerequisite	L	CH	
606480	Graduation Project (1)	603392+402201	+	3	601460	Professional Ethics for Information Technology	603391		1	133
601432	Operating Systems	601325		3	606485	Graduation Project (2)	606480	+	3	
606417	Robots Programming	606361	+	3	606465	Applications of AI	606475 + 606362	+	3	
606464	Natural Language Processing	606362		3	9606000	Community Service			0	
606475	Data Exploration and Visualization	606374		3	xxxxxx	Free Requirement			3	
6xxxxx	Department Elective(2)			3	6xxxxx	Department Elective (3)			3	
					606400	Field Training	dept. Approval+ 603391		3	
Total				18	Total				16	

Total Credit Hours: 133