

First Year - First Semester			
Course Code	Course Name	CR	Pre-requisite
GT101	Learning and Information Technology	3	-
EL111	English Communication Skills I	3	EL099
AR113	Arabic Communication Skills III	3	-
GR131	History and Civilization of the Kingdom of Bahrain	3	-
	Total	12	
	O.A. Total	12	
Second Year - First Semester			
Course Code	Course Name	CR	Pre-requisite
M140	Introducing Statistics	4	EL111 & MT099
MT131	Discrete Mathematics	4	EL111 & MT099
TM112	Introduction to Computing and Information	8	M110
EL112	English Communication Skills II	3	EL111 & MT099
	Total	19	
	O.A. Total	48	
Third Year - First Semester			
Course Code	Course Name	CR	Pre-requisite
M218	Relational Databases	4	M110 & MT131
M238	Data Visualization	4	M110
MT249	Practical Modern Statistics	8	MT248
Mxxx/TMxxx	Faculty Requirements/ Elective 1	3	
	Total	19	
	O.A. Total	83	
Fourth Year - First Semester			
Course Code	Course Name	CR	Pre-requisite
M348	Applied Statistical Modelling	8	MT248
TM471-I	Graduation Project	4	M348 or TM351 or TM358
TM260	Ethics, Law and the Governance in IT	4	M110
	Total	16	
	O.A. Total	118	
Faculty Requirements / Elective Courses (Minimum of 6 CHs.)			
Course Code	Course Name	CR	Pre-requisite
MS102	Physics	3	EL111 & MT099
M109	.NET Programming	3	EL111 & MT099
MT101	General Mathematics	3	MT099

First Year - Second Semester			
Course Code	Course Name	CR	Pre-requisite
GB102	Principles of Entrepreneurship for Non-Specialists	3	-
LAW 107	Human Rights	2	-
MST129	Applied Calculus	4	EL099 & MT099
M110	Python Program ming	8	EL111 & MT099
	Total	17	
	O.A. Total	29	
Second Year - Second Semester			
Course Code	Course Name	CR	Pre-requisite
MT132	Linear Algebra	4	EL111 & MT099
M269	Algorithms, Data structures and Computability	8	M110 & MT131
MT248	Analysing data	4	M140
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	Total	16	
	O.A. Total	64	
Third Year - Second Semester			
Course Code	Course Name	CR	Pre-requisite
MST224	Mathematical Methods	8	MST129 & MT132
TM351	Data Management and Analysis	8	M269
Mxxx/TMxxx	Faculty Requirements/ Elective 2	3	
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	Total	19	
	O.A. Total	102	
Fourth Year - Second Semester			
Course Code	Course Name	CR	Pre-requisite
TM358	Machine learning & Artificial Intelligence	8	M269
TM471-II	Graduation Project	4	TM471-I
INT300	Internship	1	Completed ≥ 100 & GPA ≥ 2.0
	Total	13	
	O.A. Total	131	
Faculty Requirements / Elective Courses (Minimum of 6 CHs.)			
Course Code	Course Name	CR	Pre-requisite
M115	Python for Machine Learning and Data Science	3	M110
TM338	Data Mining	3	MT249
TM339	Big Data Analytics	3	MT249