

Data science 2021				
First Year				
Semester	Modules	Title	Credit Hours	Prerequisite
1st (13 CHs)	EL111	English Communication Skills I	3	EL099
	GR118	Life Skills and Coexistence	3	-
	GT101	Computing Essentials	3	-
	MST129	Applied Calculus	4	EL099
2nd (14 CHs)	AR113	Arabic Communication Skills	3	-
	EL112	English Communication Skills II	3	EL111
	MT131	Discrete Mathematics	4	EL111
	MT132	Linear Algebra	4	EL111
Second Year				
1st (14 CHs)	GB102	Principles of Entrepreneurship for NonSpecialists	3	-
	M110	Python Programming	8	EL111
	A module from University Requirement/Elective		3	-
2nd (20 CHs)	TM112	Introduction to Computing and Information Technology	8	M110
	M140	Introducing to Statistics	8	EL111
	TM260	Ethics, Law and the Governance in IT	4	M110
Third Year				
1st (16 CHs)	M218	Relational Databases	4	M110, MT131
	M269	Algorithms, Data Structure and Computability	8	M110 and MT131
	MT248	Analysing Data	4	M140
2nd (19 CHs)	M238	Data Visualization	4	M110
	MST224	Mathematical Methods	8	MST129 & MT132
	MT249	Practical Modern Statistics	4	MT248
	Faculty Requirement / Elective		3	-
Fourth Year				
1st (20 CHs)	M348	Applied Statistics Modelling	8	MT248
	TM351	Data Management and Analysis	8	M269
	TM471A	Graduation Project – Part A	4	M348 or TM358 or TM351
2nd (15 CHs)	TM358	Machine Learning and Artificial	8	M269
	TM471B	Graduation Project	4	TM471A
	Faculty Requirement / Elective		3	