

No.	Category	Credit Hours		
1	University Requirements / Mandatory	18		
2	University Requirements / Electives	3		
3	Faculty Requirements / Mandatory	8		
4	Faculty Requirements/ Electives	6		
5	Specialization/Track Requirements / Mandatory	96		
	Total	131		

1. University Requirements / Mandatory

(18 credit hours) Credit **Course Code Course Title Prerequisites** Equivalency hours Arabic Communication Skills 3 --AR113 Principles of Entrepreneurship for Non-Specialists 3 GB102 --**GR118** Life Skills and Coexistence 3 ---GT101 Learning and Information Technology 3 --EL111 English Communication Skills I 3 EL099 EL112 **English Communication Skills II** 3 EL111 Total Sum

2. University Requirements / Electives

Course Credit **Course Code Course Title** Prerequisites Equivalency Level hours Arabic Islamic Civilization GR111 1 3 Issues and Problems of Development --GR112 1 3 in the Arab World Current International Issues and --1 GR115 3 Problems GR116 Youth Empowerment 1 3 --Women Empowerment GR117 1 3 --**Environment and Health** 1 3 GR121 --**General Branch Requirement** GR131 1 3 --Chinese for Beginners (I) CH101 1 3 --Chinese for Beginners (II) CH101 CH102 1 3 Spanish for Beginners (I) 1 SL101 3 --SL102 Spanish for Beginners (II) 1 3 SL101 French for Beginners (I) FR101 1 3 --FR102 French for Beginners (II) 1 3 FR101 Total Sum

(3 credit hours)



BSc (HONS) Information Technology and Computing (ITC) Re-Validation 2021-2026

Data Science (DS)

3. Faculty Requirements / Mandatory (8 credit hours)					
Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
MST129	Applied Calculus	1	4	EL099	MT129
TM260*	Ethics, Law and the Governance in IT	2	4	M238	
Total			Sum		

4. Faculty Requirements / Elective

. Faculty Requirements / Elective				(6 credit hours)	
Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
MS102	Physics	1	3	EL111	
M109	.NET Programming	1	3	EL111	
MT101	General Mathematics	1	3	-	
M115*	Python for ML and DS	1	3	M110	
TM338	Data Mining	3	3	MT249	
TM339	Big Data Analytics	3	3	MT249	
	Total				,

5. Specialization Requirements / Mandatory

(96 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
MT131	Discrete Mathematics	1	4	EL111	
MT132	Linear Algebra	1	4	EL111	
M110	Python Programming	1	8	EL111	TM111
TM112	Introduction to Computing and Information Technology	1	8	M110	
M140	Introducing Statistics	1	8	EL111	
M269	Algorithms, Data Structures and Computability	2	8	M110 & MT131	
MT248	Analysing data	2	4	M140	
MST224	Mathematical methods	2	8	MST129 & MT132	
MT249	Practical modern statistics	2	4	MT248	
M218	Relational Databases	2	4	M110 & MT131	
M238	Data Visualization	2	4	M110	
TM351	Data Management and Analysis	3	8	M269 or M251*	
M348	Applied statistical modelling	3	8	MT248	
TM358	Machine learning and artificial intelligence	3	8	M269	
TM471	Graduation Project (DS pathway)	3	8	M348 or TM358 or TM351**	
	Total				