

BSc (HONS) Information Technology and Computing (ITC) Re-Validation 2021-2026 TRACK – Computer Science (CS)

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)

Course Code	Course Title	Credit hours	Prerequisites	Equivalency
AR113	Arabic Communication Skills	3		
GB102	Principles of Entrepreneurship for Non-Specialists	3		
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			

2. University Requirements / Electives

(3 credit hours)

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

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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	TT284	
Total			8 Cr		

4. 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	-	
TM295	System Modelling	2	3	MT132	
M277	Competitive Programming	2	3	M251 & (M269)+	
MT372	Parallel Computing	3	3	M269 & M251	
	Total		6 Cr		

5. Specialization Requirements / Mandatory

(96 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
TM103	Computer Organization and Architecture	1	4	EL111	
TM105	Introduction to Programming	1	4	EL111	
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	
M251	Object-Oriented Programming using Java	2	8	TM105	
M269	Algorithms, Data Structures and Computability	2	8	M110 & MT131	
TT284	Web Technologies	2	8	TM112	T227
TM298	Operating Systems	2	4	TM105 & TM103	
TM240	Computer Graphics and Multimedia	2	4	MT132 & TM105	
TM351	Data Management and Analysis	3	8	M269 or M251*	
TM354	Software Engineering	3	8	M251	
TM358	Machine learning and artificial intelligence	3	8	M269	TM366
TM471	Graduation Project (CS pathway)	3	8	TM354 or TM358 or TM351**	
	Total		96 Cr		

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