

BSc (HONS) information Technology and Computing (ITC)
Re-Validation 2021-2026
TRACK – Networking and Security (N&S)

No.	Category	Credit Hours
1	University Requirements / Mandatory	19
2	University Requirements / Electives	3
3	Faculty Requirements / Mandatory	8
4	Faculty Requirements/ Electives	6
5	Specialization/Track Requirements / Mandatory	96
Total		132

1. University Requirements / Mandatory (19 credit hours)

Course Code	Course Title	Credit hours	Prerequisites	Equivalency
EL099	English Orientation Programme (Level 3)	0		
AR113	Arabic Communication Skills	3	--	
GB102	Principles of Entrepreneurship for Non-Specialists	3	--	
GR118	Life Skills and Coexistence	3	--	
GR119	community service (Training)	1	--	
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 (3 credit hours)

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			Sum		

3. Faculty Requirements / Mandatory (8 credit hours)

Course Code	Course Title	Course	Credit	Prerequisite	Equivalency
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		Level	hours		
MST129	Applied Calculus	1	4	EL099	MT129
TM260*	Ethics, Law and the Governance in IT	2	4	T216B	
Total			Sum		

4. Faculty Requirements / Elective

(6 credit hours)

	Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
Group A	MS102	Physics	1	3	EL111	
	M109	.NET Programming	1	3	EL111	
	MT101	General Mathematics	1	3	-	
	TM290	Cryptography and Internet Security	2	3	TM112	
	MT395	Applied Cyber Security	3	3	TM260	
Total				Sum		

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	
T216A	Cisco Networking (CCNA)-A	2	8	TM112	
T216B	Cisco Networking (CCNA)-B	2	8	T216A	
M251	Object-Oriented Programming using Java	2	8	TM105	
TM254	Managing IT: the why, the what and the how	2	8	M110	T227
T316	Advanced Networking	3	8	T216B	
T318	Applied Network Security	3	8	T216B	
T321	Operating System Server Administration	3	8	T216A	TM352
TM471	Graduation Project (NS pathway)	3	8	T316 or T318 or T321**	
Total			Sum		