

**BSc (HONS) Data Science and Artificial Intelligence (DSAI)**  
**Re-Validation 2021-2026**  
**TRACK – Artificial Intelligence (AI)**

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
<b>Total</b>		<b>132</b>

**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	
<b>Total</b>		<b>Sum</b>		

**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	
<b>Total</b>			<b>Sum</b>		

**3. Faculty Requirements / Mandatory (8 credit hours)**

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
MST129	Applied Calculus	1	4	EL099	MT129

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TM260*	Ethics, Law and the Governance in IT	2	4	TM271	
<b>Total</b>			<b>Sum</b>		

### 4. Faculty Requirements / Elective

(6 credit hours)

	Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
<b>Group A</b>	MS102	Physics	1	3	EL111	
	M109	.NET Programming	1	3	EL111	
	MT101	General Mathematics	1	3	-	
	TM280	Smart IoT Systems	2	3	TM112	
	TM380	Autonomous Robotic System	3	3	TM271	
<b>Total</b>				<b>Sum</b>		

### 5. Specialization Requirements / Mandatory

(96 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
<b>TM103</b>	Computer Organization and Architecture	1	4	EL111	
<b>MT131</b>	Discrete Mathematics	1	4	EL111	
<b>MT132</b>	Linear Algebra	1	4	EL111	
<b>M110</b>	Python Programming	1	8	EL111	TM111
<b>TM112</b>	Introduction to Computing and Information Technology	1	8	M110	
<b>MT141</b>	Introduction to Probability and Statistics	1	4	EL111	
<b>M269</b>	Algorithms, Data Structures and Computability	2	8	M110 & MT131	
<b>TM275</b>	Parallel and Distributed Systems	2	4	TM103	
<b>TM270</b>	Artificial intelligence	2	8	TM112 & MT141	
<b>TM271</b>	Machine Learning and Deep learning	2	8	TM270 & MT141	
<b>TM276</b>	Software Development Processes and Methodologies	2	4	TM112	
<b>TM351</b>	Data Management and Analysis	3	8	M269 or M251*	
<b>TM340</b>	Natural Language Processing	3	8	TM271	
<b>TM341</b>	Computer Vision	3	8	TM271	
<b>TM471</b>	Graduation Project (AI pathway)	3	8	TM351 or TM340* or TM341**	
<b>Total</b>			<b>Sum</b>		