

## Associate Degree in Data Science

Course Title	Course Code	Course Type	Credit Hour
<b>Semester 1</b>			
Functional English	GENG-101	General	3
Fehm-e-Quran	HQ-001N	Compulsory	0
Ideology and Constitution of Pakistan	GICP-101	Major	2
Calculus and Analytical Geometry	GE-210	Major	3
Discrete Structures	GE-167	Major	3
Applications of Information and Communication Technologies	GE-160A	General	3
Programming Fundamentals	CC-112	Major	3
Programming Fundamentals (Lab)	CC-112L	Major	1
Math Deficiency I	MD-001	Major	0
			<b>Total Credit Hours 18</b>
<b>Semester 2</b>			
Digital Logic Design	CC-110	Major	3
Digital Logic Design (Lab)	CC-110L	Major	1
Object Oriented Programming	CC-211N	Major	3
Object Oriented Programming (Lab)	CC-211L	Major	1
Database Systems	CC-215N	Major	3
Database Systems (Lab)	CC-215L1	Major	1
Math Deficiency II	MD-002N	General	0
Linear Algebra	MS-252N	General	3
Expository Writing	GENG-201	General	3
Fehm-e-Quran	HQ-002N	Compulsory	1
			<b>Total Credit Hours 19</b>
<b>Semester 3</b>			
Data Structures	CC-213	Major	3
Data Structures (Lab)	CC-213L	Major	1
Computer Networks	CC-214N	Major	3
Computer Networks	CC-214L1	Major	1
Software Engineering	CC-303	Major	3
Information Security	CC-308	Major	3
Artificial Intelligence	CC-310	Major	3
Artificial Intelligence (Lab)	CC-310L	Major	1
Operating Systems	CC-311	Major	3
Operating Systems (Lab)	CC-311L	Major	1
Tarjuma-e-Quran	HQ-003	Compulsory	0
			<b>Total Credit Hours 22</b>
<b>Semester 4</b>			
<u>GEN(SS)</u>		General	3
Quantitative Reasoning (II)	GQR-201	General	3
major		Major	3
major		Major	3
major		Major	3
Tarjuma-e-Quran	HQ-004	Compulsory	1
			<b>Total Credit Hours 16</b>
<b>Semester 5</b>			
Interdisciplinary		Interdisciplinary	3
Interdisciplinary		Interdisciplinary	3
major		Major	3
major		Major	3
major		Major	3
Tarjuma-e-Quran	HQ-005	Compulsory	0
			<b>Total Credit Hours 15</b>
<b>Semester 6</b>			
Interdisciplinary		Interdisciplinary	3
Interdisciplinary		Interdisciplinary	3
major		Major	3
major		Major	3
major		Major	3
Tarjuma-e-Quran	HQ-006	Compulsory	1
			<b>Total Credit Hours 16</b>
<b>Semester 7</b>			
Fieldwork / Intership		Major	3
major		Major	3
major		Major	3
major		Major	3
major		Major	3
Tarjuma-e-Quran	HQ-007	Compulsory	0
			<b>Total Credit Hours 15</b>
<b>Semester 8</b>			
Capstone Project		Major	3
major		Major	3
major		Major	3
major		Major	3
major		Major	3
Tarjuma-e-Quran	HQ-008	Compulsory	1
			<b>Total Credit Hours 16</b>

Signature