

BS Data Science				
Semester 1	Summer 2025			
	Course Code	Course Title	Credit Hours	Sections
	CP103	Introduction to Computing		
	CP101	Introduction to Computing – Lab		
	GE102	Basic Electronics		
	GE101	Basic Electronics – Lab		
	ENG110	Functional English		
	PAK102	Ideology and Constitution of Pakistan		
	AL143	Discrete Structures		
	Only for Pre-Med Students			
	MAT103	Pre-Calculus (Only medical background)		N/A
Semester 2				
	Course Code	Course Title	Credit Hours	Sections
	CP113	Programming Fundamentals	3	1
	CP111	Programming Fundamentals - Lab	1	1
	AR102	Digital Logic Design	2	1
	AR101	Digital Logic Design - Lab	1	1
	MAT113	Calculus and Analytic Geometry	3	1
	ENG211	Expository Writing	3	1
	CCE201	Civics and Community Engagement	2	1
	MAT123	Elementary Algebra (For Pre-Medical Students Only)	3	1
	DSMG1933	Introduction to Business	3	1
	Course Code	Course Title	Credit Hours	Sections

<b>Semester 3</b>	<b>DSCP2033</b>	Object Oriented Programming	3	1
	<b>DSCP2031</b>	Object Oriented Programming-LAB	1	1
	<b>DSCS2543</b>	Computer Organization and Assembly Language	3	1
	<b>DSCS2541</b>	Computer Organization and Assembly Language-LAB	1	1
	<b>DSDS1112</b>	Fundamentals of Data Science	2	1
	<b>DSDS1111</b>	Fundamentals of Data Science- Lab	1	1
	<b>ISL201</b>	Islamic Studies	2	1
<b>Semester 4</b>				
	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Sections</b>
	<b>DSSS2863</b>	Probability and Statistics	3	1
	<b>DSCP2043</b>	Data Structures and Algorithms	3	1
	<b>DSCP2041</b>	Data Structures and Algorithms – Lab	1	1
	<b>DSDB2313</b>	Introduction to Database Systems	3	1
	<b>DSDB2311</b>	Introduction to Database Systems - Lab	1	1
	<b>DSSS2873</b>	Linear Algebra	3	1
	<b>ENG203</b>	Technical & Business Writing	3	1
<b>Semester 5</b>				
	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Sections</b>
	<b>DSNS3413</b>	Operating Systems	3	1
	<b>DSNS3411</b>	Operating Systems-LAB	1	1
	<b>DSSD3213</b>	Software Engineering	3	1
	<b>DSAL3523</b>	Design and Analysis of Algorithm	3	1
	<b>DSSS2853</b>	Applied Statistics	3	1
	<b>DSDS2143</b>	Tools and Techniques for Data Science	3	1

Semester 6				
	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Sections</b>
	<b>DSAL3253</b>	Theory of Automata	3	1
	<b>DSAL3533</b>	Artificial Intelligence	3	1
	<b>DSAL3531</b>	Artificial Intelligence – Lab	1	1
	<b>DSNS3423</b>	Computer Communication and Networks	3	1
	<b>DSNS3421</b>	Computer Communication and Networks – Lab	1	1
	<b>DSDB3343</b>	Information Retrieval	3	1
	<b>DSDS4473</b>	Big Data Analytics	3	1
	<b>DSDS4471</b>	Big Data Analytics-Lab	1	1
Semester 7				
	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Sections</b>
	<b>DSDB3332</b>	Data Mining	2	1
	<b>DSDB3331</b>	Data Mining – Lab	1	1
	<b>DSNS4433</b>	Information Security	3	1
	<b>DSAL4583</b>	Introduction to Machine Learning	3	1
	<b>DSDS3162</b>	Exploratory Data Analysis & Visualization	2	1
	<b>DSDS3161</b>	Exploratory Data Analysis & Visualization	1	1
Semester 8	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Sections</b>
	<b>DSNS3482</b>	Parallel and Distributed Computing	2	1
	<b>DSNS3481</b>	Parallel and Distributed Computing - Lab	1	1
	<b>DSGE4753</b>	Professional Practices	3	1
	<b>DSDS4152</b>	Data Warehousing and Business Intelligence	2	1
	<b>DSDS4151</b>	Data Warehousing and Business Intelligence - Lab	1	1

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