Bachelor of Science in Data Science

Programme Name	Bachelor of Science in Data Science
Total Programmes Credits	495
Fees per Programme Credit	$13.00
Total Tuition Fee	$6,435.00

SEMESTER 1				
Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	E5-PHY-20	Physics	12	$156.00
Core	E5-PCA-20	Pre-Calculus	24	$312.00
Core	C6-CSA-20	Computer Architecture	12	$156.00
Core	D5-WCO-20	Writing and Communication	12	$156.00
Semester 1			**60**	**$780.00**

SEMESTER 2				
Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	C5-PS1-20	Programming Skill 1	6	$78.00
Core	B5-BEN-20	Business and Entrepreneurship	30	$390.00
Core	C6-OPS-20	Operating Systems	12	$156.00
Elective (Choose one)	D5-BIO-22	Biology 1	12	$156.00
	E5-CHE-22	Chemistry 1	12	$156.00
Semester 2			**60**	**$780.00**

SEMESTER 3				
Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	E6-CAL-22	Calculus	12	$156.00
Core	C6-PS2-22	Programming Skill 2	12	$156.00
Core	C6-COM-22	Computer Networks	12	$156.00
Core	C7-DBS-22	Databases	12	$156.00
Elective (Choose one)	C6-CLC-22	Cloud Computing	9	$117.00
	C6-EM1-22	Emerging Technologies 1	9	$117.00
Semester 3			**57**	**$741.00**

SEMESTER 4				
Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	E6-DMC-22	Discrete Mathematics for Computer Science	12	$156.00
Core	C6-DSA-22	Data Structures and Algorithms	12	$156.00
Core	C7-DMI-22	Data Mining	12	$156.00
Core	C7-REM-22	Research Methodology	12	$156.00
Elective (Choose one)	C6-CRG-20	Cryprography	9	$117.00
	C6-MOS-22	Mobile Operating Systems	9	$117.00
Elective (Choose one)	C6-ACN-22	Advanced Computer Networks	9	$117.00
	C6-OPT-22	Optimization	9	$117.00
Semester 4			**66**	**$858.00**

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SEMESTER 5

Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	E7-PAS-22	Probability and Statistics	12	$156.00
Core	C7-PS3-22	Programming Skill 3	12	$156.00
Core	C7-DVI-22	Data Visualization	12	$156.00
Core	C7-PMA-22	Project Management	12	$156.00
Core	E7-LAL-22	Linear Algebra	12	$156.00
Semester 5			**60**	**$780.00**

SEMESTER 6

Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	C7-MLE-22	Machine Learning	24	$312.00
Core	C7-ARI-22	Artificial Intelligence	12	$156.00
Core	C7-DAN-22	Data Analytics	12	$156.00
Elective (Choose one)	C7-EM2-22	Emerging Technologies	9	$117.00
	C7-NLP-22	Nature Language Processing	9	$117.00
Elective (Choose one)	C7-CBI-22	Computational Biology	9	$117.00
	B7-CFI-22	Computational Finance	9	$117.00
	E7-COS-22	Computational Statistics	9	$117.00
Semester 6			**66**	**$858.00**

SEMESTER 7

Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	C7-PPR-22	Industrial Attachment	60	$780.00
Semester 7			**60**	**$780.00**

SEMESTER 8

Core/Elective	Module Code	Module Name	Credit Load	Module Fee
Core	E7-MUS-22	Multivariate Statistics	12	$156.00
Core	C7-PPR-22	Individual Project in Data Science	24	$312.00
Core	C7-PIE-22	Professional Issues and Ethics	12	$156.00
Elective (Choose one)	C7-BDD-22	Big Data Databases	9	$117.00
	C7-AAN-22	Algorithm Analysis	9	$117.00
Elective (Choose one)	C7-BDT-22	Big Data Technologies	9	$117.00
	C7-AAI-22	Advanced Artificial Intelligence	9	$117.00
Semester 8			**66**	**$858.00**

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