

Division	Faculty of Science & Health Science
School Name	School of Science & Environmental Studies
Department Name	Department of Mathematics and Statistics
Program Name	B. Sc. (Applied Statistics and Data Analytics)

Sem	Course Type	Sum of Total Credits
I		
	University Core	
	Effective Communication	1
	Environment and Sustainability	1
	Foundations of Peace	2
	Indian Constitution	1
	Learning to Learn	1
	Yoga - I	1
	University Core Total	7
	Program Foundation	
	R Programming	1
	Descriptive Statistics-I	3
	Introduction to Probability Theory	3
	Program Foundation Total	7
	Program Major	
	Calculus	3
	Discrete Mathematics	3
	Program Major Total	6
I Total		20
II		
	University Core	
	Co-creation	1
	Critical Thinking	1
	Digital Literacy	1
	Financial Literacy	1
	Yoga - II	1
	University Core Total	5
	Program Foundation	
	Linear Algebra	3
	Introduction to Python	1
	Introduction to Number Theory	3
	Operations Research-I	3
	Program Foundation Total	10
	Program Major	
	Descriptive Statistics-II	3
	Continuous Distribution	3
	Program Major Total	6
II Total		21
III		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - I	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	1
	University Core	
	Research Innovation Design Entrepreneurship (RIDE)	1
	Rural Immersion	1
	Spiritual and Cultural heritage: Indian Experience	2
	University Core Total	4
	University Electives	

III	University Electives - I	4
	University Electives Total	4
	Program Foundation	
	Introduction to Machine Learning	2
	Program Foundation Total	2
	Program Major	
	Introduction to Sampling	3
	Statistical Inference	4
	Sampling Distribution	3
	Program Major Total	10
III Total		21
IV		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - II	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	1
	University Electives	
	University Electives - II	4
	University Electives Total	4
	Program Foundation	
	Introduction to DoE	4
	Program Foundation Total	4
	Program Major	
	Testing of Hypothesis	4
	Numerical Method	3
	Operations Research-II	4
	Program Major Total	11
IV Total		20
V		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - III	1
	Project Based on Regression Analysis	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	2
	Program Electives	
	Program Elective - I	4
	Program Electives Total	4
	University Core	
	Managing Conflicts Peacefully: Tools and Techniques	2
	University Core Total	2
	University Electives	
	University Electives - III	4
	University Electives Total	4
	Program Foundation	
	Introduction to Stochastic Process	3
	Introduction to DBMS	2
	Program Foundation Total	5
	Program Major	
	Regression Analysis	3
	Program Major Total	3
V Total		20
VI		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - IV	1
	Project based on Sampling methods	4
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	5
	Program Electives	

VI	Program Elective - II	4
	Program Electives Total	4
	University Core	
	National Academic Immersion	2
	University Core Total	2
	Program Foundation	
	Introduction to Time Series	2
	Time Series Lab	1
	Data Mining Lab	1
	Program Foundation Total	4
	Program Major	
	Introduction to Data Mining	3
	Multivariate Analysis	3
	Program Major Total	6
VI Total		21
VII		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project based on machine learning	4
	Project based on statistical inference	4
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	8
	Program Electives	
	Program Elective - III	4
	Program Electives Total	4
	Program Major	
	Biostatistics	3
	Basics of Economics	3
	Program Major Total	6
VII Total		18
VIII		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Internship	15
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	15
	Program Electives	
	Program Elective - IV	4
	Program Electives Total	4
VIII Total		19
Grand Total		160

Semester	Course Name / Course Title	Program Electives
V	Deep Learning/Demography	Program Elective - I
VI	Data Analysis for HRM/ Statistical Computing Using R	Program Elective - II
VII	Business Analytics/ Survey Sampling Techniques	Program Elective - III
VIII	SQL/ Research Methodology	Program Elective - IV