

Proposed structure B.Sc (Applied Statistics & Analytics) Batch 2024-2028

First Year						Second Year					
Semester I			Semester II			Semester III			Semester IV		
Sr. No.	Course Title	Credits	Sr. No.	Course Title	Credits	Sr. No.	Course Title	Credits	Sr. No.	Course Title	Credits
1	Exploratory Data Analysis	3	1	Descriptive Statistics	3	1	Linear Algebra	3	1	Numerical Analysis	2
2	Introduction to Probability Theory	3	2	Probability Distributions	3	2	Data Management	3	2	Multivariate Calculus	3
3	Calculus & Differential Equations	3	3	Mathematics of Discrete Structures	3	3	Linear Algebra Lab	1	3	Numerical Analysis Lab	1
4	Functional Programming	3	4	Data Analysis using Python	3	4	Data Management Lab	1	4	Operation Research	2
5	Exploratory Data Analysis & Probability Theory Lab	2	5	Descriptive Statistics & Probability Distributions Lab	2	5	Sampling Distributions & Applications	3	5	Designs of Experiments	3
6	Calculus & Differential Equations Lab	1	6	Data Analysis using Python Lab	1	6	Estimation Theory	3	6	Hypothesis Testing	3
7	Functional Programming Lab	1	7	Mathematics of Discrete Structures Lab	1	7	Sampling Distributions & Estimation Theory Lab	2	7	Designs of Experiments, Operation Research & Hypothesis Testing Lab	2
8	Introduction to R	2	8	Indian Culture and Civilization	2	8	Introduction to Economics	2	8	Principles of Management	2
9	Effective Communication	2	9	Professional Skills	2	9	Research Methodology	2	9	Analytics In Practice-I	2
10	Ecology and Environment	2	10	Global Environmental Management	2	10	Art of Yoga	2	10	Leadership & Personality Development	2
Total Credits		22	Total Credits		22	Total Credits		22	Total Credits		22



 Dean, NSOMASA

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Third Year						Fourth Year					
Semester V			Semester VI			Semester VII			Semester VIII		
Sr. No.	Course Title	Credits	Sr. No.	Course Title	Credits	Course	Course Title	Credits	Course	Course Title	Credits
1	Actuarial Science	3	1	HealthCare & Pharma Analytics	3	1	Stochastic Modelling	3	1	HR Analytics & Operation Analytics	2
2	Regression Analysis	3	2	Time Series	3	2	Quality Management	3	2	Open Elective IV-Analytics Track (Advanced Operations Research)	2
3	Applied Multivariate Analysis	4	3	Statistical Modelling in Financial Risk	4	3	Statistical Modelling in Marketing Analytics	4	3	Internship/ Capstone Project	16
4	Open Elective I -Analytics Tack (Time Series & forecasting)	3	4	Open Elective II-Analytics Track (Business Analytics)	3	4	Open ElectiveIII -Analytics Track (Multivariate Analysis)	3			
5	Regression & Actuarial Science Lab	3	5	HealthCare & Pharma Analytics & Time Series Lab	3	5	Econometrics	2			
6	Fundamentals of Finance	2	6	Project Management	2	6	Stochastic Modelling & Quality Management Lab	3			
7	Analytics In Practice-II	2	7	Analytics In Practice-III	2	7	Analytics In Practice-IV	2			
	Total Credits	20		Total Credits	20		Total Credits	20		Total Credits	20

Total credits = 82
Total Subjects = 23



Dean, NSOMASA