SVKM's NMIMS

School of Mathematics, Applied Statistics & Analytics

B.Sc. Data Science

Course Structure

 Year I Semester I Descriptive Statistics - I Introduction to Probability Theory Univariate Calculus Elementary Number Theory Discrete Mathematics Foundations of Computer Science Introduction to R Environmental Studies 	 Year I Semester II Descriptive Statistics - II Probability Models for Discrete Data Probability Models for Continuous Data Linear Algebra Numerical Methods Introduction to Programming Effective Communication
 Year II Semester III Statistical Inference for Data Science - I Sampling Distributions & Applications Statistics Lab - I Multivariate Calculus Mathematics Lab - I Data Management Technology Lab - I Data Analysis using Python Research Writing Research Initiative in Data Science - I 	 Year II Semester IV Statistical Inference for Data Science - II Regression Analysis Designs of Experiments Statistics Lab - II Theory of Optimization & Graph Theory Mathematics Lab - II Machine Learning - I Technology Lab - II Data Wrangling with Python Research Ethics Research Initiative in Data Science - II
 Year III Semester V Multivariate Analysis Operations Research Statistics Lab - III Differential Equations Mathematics Lab - III Machine Learning - II Technology Lab - III Big Data Analytics Professional Skills Research Initiative in Data Science - III 	 Year III Semester VI Markov Chains Time Series & Forecasting Statistical Process Control Statistics Lab - IV Deep Learning Techniques Technology Lab – IV Data Visualization and Modelling Entrepreneurship Skills Capstone Project