

SVKM's NMIMS

School of Mathematics, Applied Statistics & Analytics

B. Sc. (Applied Statistics & Analytics)

Course Structure

Year I Semester I <ul style="list-style-type: none">• Descriptive Statistics - I• Introduction to Probability Theory• Discrete Mathematics• Calculus and Differential Equations• Functional Programming• Micro Economics• Effective Communication	Year I Semester II <ul style="list-style-type: none">• Descriptive Statistics - II• Discrete Probability Distributions• Continuous Probability Distributions• Linear Algebra• Numerical Methods• Python Programming• Macro Economics• Environmental Studies
Year II Semester III <ul style="list-style-type: none">• Sampling Theory• Sampling Distributions & Applications• Estimation Theory• Operations Research - I• Multivariate Calculus• Introduction to R• Financial Economics• Research Methods• Projects	Year II Semester IV <ul style="list-style-type: none">• Hypothesis Testing• Design of Experiments• Stochastic Processes• Actuarial Science• Data Management• Applied Economics• Research Writing• Projects
Year III Semester V <ul style="list-style-type: none">• Time Series & Forecasting• Operations Research - II• Statistics in Life Science• Principles of Marketing• Fundamentals of Financial Risk• Visual Analytics• Employability Skills• Projects	Year III Semester VI <ul style="list-style-type: none">• Introduction to Data Science• Quality Management• Statistical Modelling in Marketing Analytics• Statistical Modelling in Financial Risk• Data Science using R• Business Ethics• Projects