SVKM's NMIMS

School of Mathematics, Applied Statistics & Analytics

M.Sc. – Statistics & Data Science

Course Structure

First Year

Semester - I

Paper I – Probability Theory

Paper II - Distribution Theory

Paper III – Estimation Theory

Paper IV - Linear Models & Design of Experiments

Paper V - Real Analysis and Linear Algebra

Paper VI – Data Management

Paper VII - Programming Analytics

Paper VIII-Statistical Computing I

Paper IX - Research Treatise-I

Semester - II

Paper X – Regression Analysis

Paper XI – Testing of Hypothesis

Paper XII- Applied Multivariate Analysis

Paper XIII - Machine Learning Techniques

Paper XIV – Python for Data Analysis

Paper XV - Reporting & Correspondence in Data Science

Paper XVI – Statistical Computing II

Paper XVII - Project Management

Paper XVIII - Research Treatise - II

Second Year

Semester - III

Paper XIX- Stochastic Processes Paper XX - Time Series Analysis

Paper XXI- Elective I

Paper XXII- Elective II

Paper XXIII- Introduction to Big Data Technologies & its applications

Paper XXIV – Predictive Modelling

Paper XXV – Statistical Computing III

Paper XXVI- Organizational Behaviour

Paper XXVII- Research Treatise – III

Semester - IV

Industry Internship

List of Electives

- a. Deep Learning Techniques
- b. Pricing & Revenue Optimization
- c. Stochastic Finance
- d. Survival Analysis
- e. Quality Management
- f. Nonparametric Inference