Number of Courses:

|  |  |
| --- | --- |
| **Name of Programme** | **Name of Courses: All Courses are employability/entrepreneurship/skill development** |
| M.A./M. Sc. (Mathematics) | Groups and Canonical Forms, Topology, Differential and Integral Equations, Complex Analysis , Real Analysis , Fields and Modules, Differential Geometry of Manifolds, Partial Differential Equations, Operations Research, Fluid Dynamics, Number Theory, Banach Spaces, Dynamics of Rigid Bodies, Fourier Analysis and Summability Theory, General Relativity and Gravitation, Numerical Solution of Differential Equations, Advanced Topology, Hydrodynamics, Discrete Mathematics, Mathematical Modelling, Complex Manifolds, Riemannian Geometry, Magneto Hydrodynamics, Measure Theory, Hilbert Spaces, Analytical Dynamics, , Cosmology, Wavelet Analysis, Hydro Statics, Mathematics for Humanities (Not for Mathematics Students), Information Theory, Bio Mathematics, Contact Manifolds, Finsler Geometry, Mathematics for Life Sciences |
| M.A/M.Sc.(Statistics) | Analysis, Measure Theory and Probability, Distribution Theory, Demography, Statistical Computing, Practical, Inference I, Stochastic Processes, Theory of Sample Surveys, Multivariate Analysis, Practical, Inference II, Linear Estimation and Design of Experiments, Operational Research I, Statistical Process and Quality Control, Applied Regression Analysis, Quantitative Epidemiology, Econometrics, Survival Analysis, Practical, Statistical Decision Theory, Bayesian Inference, Computer Intensive Statistical Methods, Computer Intensive Statistical Methods, Reliability Theory, Time Series Analysis, Operations Research II, Knowledge Discovery and Data Mining, Actuarial Statistics, Inference Discovery and Data Mininig, Practical, |
| B.A/B. Sc. (Mathematics) | Algebra and Trigonometry, Advanced Calculus, Differential Equations and Laplace Transform, Analytical Geometry and Vector Calculus, Abstract Algebra, Real Analysis, Linear Programming and Game Theory, Statics and Dynamics, Metric Spaces, Complex Analysis and Calculus of Variations, Tensors and Differential Geometry, Mechanics, Programming in C, Discrete Mathematics, Numerical Methods, |
| B.A./BSc.(Statistics) | Basics of Statistics, Descriptive Statistics (Univariate) and Theory of Probability, Descriptive Data Analysis Lab (Univariate), Descriptive Statistics (Bivariate) and Probability Distributions, Descriptive Data Analysis Lab (Bivariate), Theory of Estimation and Sampling Survey, Sampling Survey Lab, Testing of Hypothesis and Applied Statistics, Test of Significance and Applied Statistics Lab, Multivariate Analysis and Non-parametric Methods, Analysis of Variance and Design of Experiment, Non-paramertic Methods and DOE Lab, Statistical Computing and Introduction to Statistical Software, Operations Research, Operations Research and Statisical Computing Lab |
| Pre-Ph.D.(Mathematics) |  |
| Pre-Ph.D.(Statistics) |  |
| Certificate Programme in Vedic Mathematics | Vedic Mathematics |
| Diploma programme in Vedic Mathematics | Vedic Mathematics |
| Certificate Programme in Operations Research | Operations Research |
| P.G. in Operations Research | Operations Research |
| Value Added Course  | Cultural Heritage of Indian Mathematics |
| Value Added Course | Contribution of Indian Mathematicians  |
| Value Added Course | Arithmetical Computations by Vedic –Sutras  |
| Value Added Course | Sixteen Vedic –Sutras  |
| Value Added Course | Data Analysis for life Sciences  |
| Value Added Course | Machine Learning |
| Value Added Course | Programming with Python  |
| Value Added Course | Basic Statistics for Social Sciences  |
| Value Added Course | Programming with R |