

14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi) An ISO 9001:2015 and 14001:2015 Certified Institution

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES 21 SCHEME

_		
Code Code	Course Name	Course Outcomes-On completion of this course the students will be able to
21MAT11	CALCULUS AND LINEAR ALGEBRA	CO1: Apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve. CO2: Learn the notion of partial differentiation to calculate rate of change of multivariate functions and solve problems related to composite functions and Jacobian. CO3: Solve first-order linear/nonlinear ordinary differential equations analytically using standard methods. CO4: Demonstrate various models through higher order differential equations and solve such linear ordinary differential equations. CO5: Test the consistency of a system of linear equations and to solve them by direct and iterative methods.
21MAT21	ADVANCED CALCULUS AND NUMERICAL METHODS	CO1: Able to the concept of changes of order of integration and change of variables to evaluate multiple integrals and their usage in computing the area and volume. CO2: Ilustrate the applications of multivariate calculus to understand the solenoidal and irroational vectors and also exhibit the inter dependence of line, surface and volume integrals. CO3: Formulate physical problems to partial differential equations and to obtain solution for standard practical PDE's. CO4: Apply the knowledge of numerical methods in



14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi) An ISO 9001:2015 and 14001:2015 Certified Institution



14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi) An ISO 9001:2015 and 14001:2015 Certified Institution



14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi) An ISO 9001:2015 and 14001:2015 Certified Institution

interpret the hypothesis for the given sampling
distribution and to solve stochastic process
problems.