M.E.S. College Marampally

Department of Mathematics and Statistics

Core Course

Sl.No	Name of the Paper	course outcomes
1	Foundation of Mathematics	To explain the foundation of most area of modern mathematics which is applied frequenty in successive semesters
2	Analytic Geometry, Trigonometry and Differentail Calculus	To introduce Conic sections, Polar Coordinates, Hyperbolic functions, Factorisation,Summation of infinite series, Successive differentiation and Indeterminate forms
3	Calculus	To introduce Taylor series, Curvature, Evolutes, Partial differentiation , Volumes, SurfaceArea, Revolution, Doble and Triple integrations .
4	Vector Calculus,Theory of Numbers and laplace transform	To give a detailed study on Vector Differentiation and Integration,to introuce conruence, Fermats theorem and Wilsons Theroem in thoery of numbersand to give basic concepts of Laplace Transforms
5	Mathematical analysis	To give a detailed study on real numbers, limits, sequences and series
6	Differential Equations	To introduces Ordinary Differential and Partial differntail Equations, Seial functions and their solutions especially using power series
7	Abstract Algebra	To give a detailed study on Groups, Rings and their Homomorphism

8	Human rights and Mathematics for Environmental Studies	To give Environmental education which helps students to research about enironments, its issues andtheir solutions and corresponding decision andeffective actions
9	Open Course-Applicable Mathematics	To prepare the students of all streams to approach competitive examinations
10	Real Analysis	To introduce Sequence & Series of functions, Continous functions and Riemann Integral
11	Graph theory and Metric Spaces	To inroduce basic definition of Graph Theory and Metric Spaces
12	Complex anaysis	Explanation of analyitic functions, complex functions, complex integration, Power series and their properties
13	Linear Algebra	To get a detailedstudy on Matrix Algebra, VectorspacesLinear transformations ,and Characteristic Equations
14	Choice Based-Numerical Analysis	To intoduce Differentiation, integration, Interpolation, Solutions of equations, Foureir series&transform using numerical methods
15	Project	To Promote independent study and research in new areas