

Sri Venkateswara Arts & Science College Palem

Department Of Mathematics

Course Outcomes :

S.NO	SEMESTER	COURSE	CREDITS	COURSE OUTCOMES
1	I	DIFFERENTIAL CALCULUS	5	<ol style="list-style-type: none">1. Gain knowledge of fundamental concepts of real numbers2. Verify the value of the limit of a function at appoint using the definition of the limit , introduction to sequece and series.3. Learn to check function is continuous understand the consequences of the intermediate value theorem for continuous functions.
2	II	DIFFERENTIAL EQUATIONS	5	<ol style="list-style-type: none">1. Solve differential equations of first order using graphical, numerical and analytical methods.2. Solve and apply linear differential equations of second order and higher order.3. Find power series solutions of differential equations and develop the ability to apply differential equations to significant applied and theoretical problems.
3	II	REAL ANALYSIS	5	<ol style="list-style-type: none">1. Describe the real line as a complete ordered field2. Determine the continuity, differentiability, and inerrability of functions defined on subsets of the real line.3. Apply the mean value theorem and the fundamental theorem of calculus to problems in the context of real analysis.
4	IV	ALGEBRA	5	<ol style="list-style-type: none">1. Assess properties implied by the definitions of groups and rings, use various canonical types of groups and rings.



				<ol style="list-style-type: none"> 2. Analyze and demonstrate examples of subgroups, normal subgroups, quotient groups and ideals, quotient rings. 3. Use the concepts of isomorphism and homomorphism for groups and rings.
5	V	LINEAR ALGEBRA	5	<ol style="list-style-type: none"> 1. Analyze finite and infinite dimensional vector spaces and subspaces over a field and their properties, including the basis structure of vector spaces. 2. Use the definitions and properties of linear transformations and matrices of linear transformations and change of basis , including of basis, including kernel, range and isomorphism. 3. Compute with the characteristic polynomial, Eigen vectors, Eigen values and eigen spaces, as well as the geometrics and the algebraic multiplicites of an eigen value and apply the basic digonalization result.
6	VI	NUMERICAL ANALYSIS	5	<ol style="list-style-type: none"> 1. Derive numerical methods for approximating the solutions of problems of continuous mathematics. 2. Analyze the error incumbent in any such numerical approximation 3. Implement a variety of numerical algorithms using appropriate technology