

Department of Mathematics Course Outcomes

Sl.No.	Semester	Course Code	Course Title		Course Outcomes(COs)
			Differential Equations	CO1	Student will be able to solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous and Bernoulli's scopes.
				CO2	Student will be able to find the complete solution of a non-homogeneous differential equations on as linear combination of the complementary function and particular solution.
				CO3	Student will be able co-ordinates polar coordinates and equations solvable for p,y,x and clariot's equation solutions.
				CO4	Student will be able to find the complete solution of a different equation with constant coefficients by variation of parameters.
				CO5	Student will have a working knowledge of basic application problems described by second order linear diff. equation with constant co-efficient.
			Solid Geometry	CO1	Describe various forms of equation of plane, straight line, sphere, cone and cylinder.
				CO2	Find the angle between planes, Bisector planes, perpendicular distance from a point to plane, Image of a line on plane, Intersection of lines.
				CO3	Describe coplanar lines and interest lines.
				CO4	Compute the angle between a line and a plane, length of perpendicular from a point to line.
				CO5	Define skew lines and calculate the shortest distance between skew lines.
				CO6	Define plane section of sphere and to find limiting points.
				CO7	Define right circular cone and right circular cylinder and solve problems.
				CO8	To inculcate knowledge on solution problems in analytic geometry.
				CO9	Help computer designers build virtual realities, geometry's application in real world include medicines, Architecture, Computer – aided manufacturing, biology and design for construction blue prints.
				CO1	Understand the algebraic structures, Binary operations, Mathematical representation involving in the concept
				CO2	Understand the theorems and their proofs to improve their logical thinking.
				CO3	Understand the lag ranges theorem know to learn their applications.
				CO4	These mathematical ideas that serve as foundation for careers and further high study.
				CO5	Conduct the make oral and writer presentations of their findings.
				CO6	Conduct the make oral and writer presentations of their findings.
				CO7	Using the mathematical knowledge for compute permutations.
				CO8	Identify symmetry structures, models their applications involving in other subjects like chemistry, computer science.
				CO1	Define and recognize the basic properties of the field of real numbers.
				CO2	Improve and outline the logical thinking.
				CO3	Illustrate how to communicating with peers. Lecture and community
				CO4	determine if an sequence is bounded, monotonic, convergent (or) divergent.
				CO5	Define and recognize the series of real numbers and convergence.

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			Real Analysis	CO6	Shown the ability of working independently and with group.
				CO7	Illustrate how take up responsibility.
				CO8	Define and recognize Bolzano – Weirstrass theorem.
				CO9	Ability to apply the theorem in a correct mathematical way.
				CO10	Define and recognize the real functions and its limits.
				CO11	Define and recognize the continuity of real functions.
				CO12	Define and recognize the different ability of real functions and its related theorems.
				CO13	Define and recognize the Riemann – Integration of real functions and its related theorems.
			Ring Theory	CO1	Assess properties implied by the definitions of ring, field and integral domain also Boolean ring.
				CO2	Use various canonical types of rings.
				CO3	Analyze and demonstrate examples of ideals and quotient rings.
				CO4	Use the concept of isomorphism and homomorphism for rings.
				CO5	Confidently apply algebraic concept.
				CO1	Uses of Matrix system in Linear Algebra and applications of Matrix in Linear Algebra.
				CO2	Given set of vectors Correct their LI or LD
				CO3	$3. \dim (r/w) = \dim r - d \text{ im } w$
				CO4	Construction of linear transformation what is given function is LT or not.
				CO5	Vectors in Euclidian space and lot of applications
			Special Functions	CO1	Define and recognize the important contribution to Number Theory, Special functions, calculus of variations and elliptic integrals.
				CO2	Bessel's equation is used in many physical problems involving vibrations (or) heat conduction in cylinder regions.
				CO3	Special functions have many applications in Engineering.
				CO4	Laguerre's Equation is particularly in boundary values problems for spheres.
				CO5	Define and recognize Hermite and Leaguerre's polynomials and applications.
				CO1	Define and recognize the Beta and Gamma functions and its applications.
				CO2	Improve and outline the logical thinking.
				CO3	Illustrate how take up responsibility.
			CO4	Shown the ability of working Independently and with Group.	
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Sl.No.	Semester	Course Code	Course Title		Course Outcomes(COs)
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