MES College Nedumkandam

Affiliated to Mahatma Gandhi University, Kottayam and Accredited by NAAC



Course Outcome- Mathematics

For 2020-21 Academic year

Chembalam PO, Idukki District, Kerala

Pin code: 685553

Tel: +91 4868232043, 233060 E mail: mesndkm@gmail.com

B Sc Mathematics				
Semester: 1				
Course code	Course Title	Course Outcome		
MM1CRT01	Foundatio n of Mathemat ics	CO1	To understand Mathematical Logics.	
		CO2	To understand the basic principles and technique of reasoning	
		CO3	Explain basic concepts and prove basic facts about ordinals and well-ordered sets	
		CO4	Criterion for determining a polynomial equation can be solved by a process involving rational operations	
		CO5	To develops a new and in greater detail various various fundamental ideas of polynomials	
	Partial	CO1	To understand elementary row operations and elementary matrices	
	Differenti ation, Matices, Trigonom etry & Numerica I Methods	CO2	Be familiar with the modeling assumptions and derivations that lead to PDEs	
MM1CMT01		CO3	To develop the row reduced echolon form of matrix and study their application.	
		CO4	To understand the concept of rank of a matrix.	
		CO5	Explain how to determine the square root of a real number by N-R method	
			Semester 2	
Course code	Course Title M1	Course Outcome		
	Aanalytic Geometry , Trignome try and Differenti al Equations	CO1	To understand conic sections and their characteristics	
		CO2	To understand the polar coordinates of conics	
MM2CRT02		CO3	Study the formulas involving Trigonometrical identities	
		C04	Methods for solving Ordinary differeential equations	
Course code	Course Title C1P1	Course Outcome		
MM2 CMTO2	Integral Calculus and Differenti al	CO1	To understand ordinary differential equations and various methods to solve them	
		CO2	Study the application of integration with examples	
		CO3	Various methods to calculate Volume of solid	

	Equations	CO4	Explain the Surfaces Curves in three dimensions		
Semester 2					
Course code	Course Title BCA1	Course Outcome			
	Discrete	CO1	Understand Graph terminology and Types of Graphs		
		CO2	Study application of trees		
	ics II	CO3	Representing Boolean Functions		
		CO4	Application of Caley Hamiltonian Theorem		
Semester: 3					
Course code	Course Title		Course Outcome		
	Calculus	CO1	To understand the consequences of various mean value theorems for differentiable functions.		
MM3CRT01		CO2	To Understand the consequences of First Derivative Test for Extreme Values.		
		CO3	To understand the a nalysis of basic concepts and a deep insight of Integral Calculus.		
		CO4	Acquire and apply the knowledge in Maclaurin's and Taylor's Theorm		
		CO5	Understand radius of curvature, evolutes and asymptotes		
	Vector Calculus, Analytic Geometry and Abstract Algebra	CO1	Getting an idea of curves in space and associated concepts		
		CO2	Able to calculate directional derivatives and to find gradient vectors		
MM3CMT01		CO3	Understands the importance of line integral and will be able to identify where it can be applied and how it is evaluated		
and Abstract Algebra		CO4	Able to calculate surface area and surface integral		
		CO5	Identifies conic sections and their properties		
	CO6	Get an understanding in basic concepts in group theory			
Semeter : 4					
Course code	Course Title	Course Outcome			
MM4CMT04	C2P2	CO1	To understand Laplace Transforms and inverse Laplace Transforms and their applications		
	Fourier Series , Laplace	CO2	To understand complex integration		
		CO3	Understand the basic properties of Complex numbers.		

	Tranform s and Complex Analysis	CO4	Understand how to solve Differential equations using power series method.	
	M2	CO1	Recognize various properties of congruence.	
MM4CRT04	Vector calculus Theory of numbers	CO2	Able to apply Fermat's theorem and Wilson's Theorem for finding solutions of problems in number theory.	
		CO3	Acquire the ability of solving Differential equations using Laplace Transform	
	and Laplace Transfor m	CO4		
			Semester: 5	
Course code	Course Title	Course Outcome		
	Mathemat ical Analysis	CO1	Understand the basic ideas of counting	
		CO2	Understand the essential properties of real number system	
MM5CR101		CO3	Understand algebraic and order properties of eal number system	
		CO4	Undestand basic ideas of sequences as well as series and their convergence	
	Differenti al Equations	CO1	Understand various methods of finding solution of differential equation	
MM5CRT02		CO2	Evaluating the role of Differential equations in other subjects	
		CO3	Able to apply the knowledge in life situations or for doing projects	
MM5CRT03	Abstract Algebra	CO1	Understand basic ideas of algebraic system	
		CO2	Develop the basic concepts of group , ring and field and their properties	
		CO3	Contribution of algebraic systems to the world of sciene	
		CO4	Develop the ideas of finite fields and their application to the modern world	
	Human	CO1	Acquiring Knowledge about the enviornment and it allied Problems	
	rights and Mathemat	CO2	Understand the necessity of Environmental protection and improvement for sustainable development	

	ics for	CO3	Able to analyse the various environmental problems and can motivate public for solving it.
	Environm ental Studies	CO4	Acquire a knowledge in Human rights
MM5OPT02	Applicabl e Mathemat ics	CO1	To Illustrate Vennn diagrams to bring out relationship in sets and their use in simple logical problems.
		CO2	Able to solve problems and graphical representation of variables.
		CO3	Detailed study and analysis of Geometry.
		CO4	To Study of algebric terms and functions.
Course code	Course Title M3	Course Outcome	
		CO1	Study the Nature and Uses of OR
	Operation s Research	CO2	Formulate the problem in a LPP FORM
Open Course		CO3	Methods for solving LPP
		CO4	Understand the theory of games and economic behaviour
Semester: 6			
Course Code	Course Title		Course Outcome
Course Code	Course Title M3	CO1	Course Outcome To understand algebra and some applications of matrices
Course Code	Course Title M3	CO1 CO2	Course Outcome To understand algebra and some applications of matrices To understand systemd of linear equations
Course Code MM6CRT12	Course Title M3 Linear Algebra	CO1 CO2 CO3	Course Outcome To understand algebra and some applications of matrices To understand systemd of linear equations To understand vector spaces and their basic properties,
Course Code MM6CRT12	Course Title M3 Linear Algebra	CO1 CO2 CO3 CO4	Course OutcomeTo understand algebra and some applications of matricesTo understand systemd of linear equationsTo understand vector spaces and their basic properties,To understand linear transformations and their applications
Course Code MM6CRT12 Course code	Course Title M3 Linear Algebra Course Title	CO1 CO2 CO3 CO4	Course Outcome To understand algebra and some applications of matrices To understand systemd of linear equations To understand vector spaces and their basic properties, To understand linear transformations and their applications Course Outcome
Course Code MM6CRT12 Course code	Course Title M3 Linear Algebra Course Title M3	CO1 CO2 CO3 CO4 CO1	Course OutcomeTo understand algebra and some applications of matricesTo understand systemd of linear equationsTo understand vector spaces and their basic properties,To understand linear transformations and their applicationsCourse OutcomeTo undestand continuous functions and their applications
Course Code MM6CRT12 Course code	Course Title M3 Linear Algebra Course Title M3	CO1 CO2 CO3 CO4 CO1 CO2	Course OutcomeTo understand algebra and some applications of matricesTo understand systemd of linear equationsTo understand vector spaces and their basic properties,To understand linear transformations and their applicationsCourse OutcomeTo undestand continuous functions and their applicationsTo understand derivatives and their applications
Course Code MM6CRT12 Course code MM6CRT09	Course Title M3 Linear Algebra Course Title M3 Real Analysis	CO1 CO2 CO3 CO4 CO1 CO2 CO3	Course OutcomeTo understand algebra and some applications of matricesTo understand systemd of linear equationsTo understand vector spaces and their basic properties,To understand linear transformations and their applicationsCourse OutcomeTo undestand continuous functions and their applicationsTo understand derivatives and their applicationsTo understand derivatives and their applicationsTo understand Reimann Integration
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Course Code MM6CRT12 Course code MM6CRT09 Course code	Course Title M3 Linear Algebra Course Title M3 Real Analysis Course Title M3	CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4 CO1	Course OutcomeTo understand algebra and some applications of matricesTo understand systemd of linear equationsTo understand vector spaces and their basic properties,To understand linear transformations and their applicationsCourse OutcomeTo undestand continuous functions and their applicationsTo understand derivatives and their applicationsTo understand Reimann IntegrationTo understand sequences and series of functionsUnderstand complex functions and its properties [continuity, convergence, differentiability etc.]

Analysis		Analysis.	
		CO3	Able to apply Cauchy's theorem and Liouvilles theorem for finding integral of complex functions.
		CO4	Able to apply the knowledge of residues and poles in integration of improper integrals.
Course code	Course Title	Course Outcome	
	M3	CO1	Acquire the knowledge of metric spaces, open sets and closed sets.
	Graph Theory	CO2	Understand various properties related to continuity and convergence of functions in a metric space
	and Metric Spaces	CO3	Acquire the knowledge in Graphs.
		CO4	Able to apply the knowledge in graphs for finding solution of life problems.