PROGRAMME CODE: PSMA



Criterion : II - Teaching-Learning and Evaluation : 2.6.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and **Course Outcomes (COs) – M. SC. MATHEMATICS** 2015 - 2020



FATIMA COLLEGE (AUTONOMOUS), MADURAI – 625018

NAME OF THE PROGRAMME: M. SC. MATHEMATICS

PROGRAMME OUTCOMES:

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Students will be able to

- **PO1:** Apply acquired scientific knowledge to solve major and complex issues in the society/industry
- **PO2:** Attain research skills to solve complex cultural, societal and environmental issues
- **PO3**: Employ latest and updated tools and technologies to solve complex issues
- Demonstrate Professional Ethics that foster Community, Nation and Environment Building Initiatives. **PO4**:

PROGRAMME SPECIFIC OUTCOMES:

- **PSO 1:** Develop proficiency in the analysis of complex mathematical problems and the use of Mathematical or other appropriate techniques to solve them.
- **PSO 2:** Provide a systematic understanding of core mathematical concepts, principles and theories along with their applications.
- PSO 3: Demonstrate the ability to conduct Research independently and pursue higher studies towards the Ph. D degree in Mathematics and computing.

TIMA COLLA	Criterion	: II - Teaching-Learning and Evaluation	
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MADURAL	Year	: 2015 - 2020	



PSO 4: Understand the fundamental axioms in Mathematics and develop Mathematical ideas based on them.

PSO 5: Provide advanced knowledge on topics in Pure Mathematics, empowering the students to pursue higher studies.

2019 - 2020

COURSE CODE	Course Title	COURSE OUTCOMES
19PG1M1	Algebra	CO1: Recall various properties of algebraic structures and explain
		counting principle.
		CO2: Describe Sylow's theorems and solve problems
		CO3: Distinguish Integral Domain and Euclidean Rings
		CO4: Classify Rings.
	逐	CO5: Describe basic concepts of Solvable groups
19PG1M2	Real Analysis	CO1: Recall Sequence and series in Real line
		CO2: Differentiate Continuous functions and Uniformly continuous
		functions
		CO3: Describe Derivatives of functions
		CO4: Identify Riemann Integral and Riemann - Stieltjes Integral



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 2.6.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) – M. SC. MATHEMATICS



		CO5: Explain Uniform convergence of functions
19PG1M3	Number Theory	 CO 1: Define and interpret the concepts of divisibility CO 2: Explain properties of congruences CO 3: Apply the Law of Quadratic Reciprocity CO 4: Classify functions of number theory CO 5: Solve Linear Diophantine equation
19PG1M4	Classical Mechanics	 CO 1 : Describe the behaviour of a particle, the system of particles and D'Alambert's principle. CO 2 : Solve problems using Lagrangian formulation CO 3 : Explain Hamilton's principle in Physical reality CO 4 : Construct Lagrange's equation for non - holonomic system. CO 5 : Apply the laws of forces in central orbit to solve Kepler's problem
19PG2M5	Advanced Algebra	CO1: Appraise characteristic roots of linear transformations CO2: Explain Matrices and Nilpotent transformation



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		CO3: Classify transformations
		CO4: Describe various concepts of fields
		CO5: Analyse Galois theory
19PG1M6	Advanced Real Analysis	At the end of the course, the students will be able to
		CO1: Identify Riemann Integral and Riemann - Stieltjes Integral
		CO2: Explain Uniform convergence of functions
		CO3: Define Power Series and Fourier Series
		CO4: De <mark>scr</mark> ibe Linear Transformations
	E Contraction of the second se	CO5: Explain Implicit function theorem and Rank theorem
19PG2M7	Differential Equations	CO 1:Define Linear differential equations with constant coefficients and prove different theorems and solve them .
		CO 2: Solving problems of the n th order in differential equations with variable coefficients.
		CO 3: Identify Regular singular points and derive Bessel's Equation.
		CO 4: Explain the methods of solving problems in partial differential



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		equations of first order. CO 5: Define and form Partial differential equations of the second order and solve it.
19PG2M8	Graph Theory	 CO1: Build the knowledge of Connectivity in graphs CO2: Identify Eulerian and Hamiltonian graphs CO3: Explain Digraphs, Matching's and Factorization in graphs CO4: Describe Planarity and Coloring in graphs CO5: Define and Explain Domination in graphs
COURSE CODE	COURSE TITLE	COURSE OBJECTIVES
PG3M9	TOPOLOGY	• To generalize the concepts which the students have learnt in Real Analysis and to train the students to develop logical thinking.
PG3M10	FUNCTIONAL ANALYSIS	• To study the three structure theorems of Functional Analysis viz., Banach theorem, open mapping theorem and uniform bounded ness principle, Hilbert spaces and operator theory leading to the spectral theory of operators on a Hilbert spaces.

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NA COLLAR	Criterion Metric Year	 II – Teaching-Learning and E 2.6.1 – Programme Outcomes Course Outcomes (COs) – M. S 2015 - 2020 	s (POs), Programme Specific Outcomes (PSOs) and
PG3	SM11	OPTIMIZATION TECHNIQUES	• To make the students to become aware of and appreciate the potential of the theory of optimization and to introduce various decision making tools and techniques based on optimization.
PG3	M12	COMBINATORICS	• To introduce combinatorial techniques for solving enumeration problems.
	CTIVE ME1	Research Methodology	• To enable the students to study the Research Methodology and some concepts of Measurability, L ^p Spaces, Fourier Transforms and Banach algebras.
PG3	ME1	JAVA PROGRAMMING	To develop OO Programming.To develop Multithreaded Programs.
PG4	M13	COMPLEX ANALYSIS	• To introduce the students to the world of complex variable theory which is markedly different from analysis of real variable.
PG4	M14	STATISTICS	• The objective of this course is to develop an ability in the students

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• The objective of this course is to develop an ability in the students to apply statistical methods to real life problem, to understand the limitations of these methods, to think probabilistically and to understand the estimation theory and to test the hypothesis of



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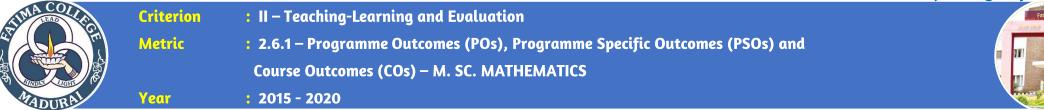
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METHODS OF APPLIED MATHEMATICS	• To enable the students to know the concepts of Calculus of
	variations, Integral equations, Neumann series and Fourier transforms.
Formal Languages	• The aim of this course is to enable the students to understand the basic ideas of Automata Theory. The course deals with the following concepts: Regular expressions, two way finite automata, context free grammar and Push down automata.
Web Designing using HTML	 To enable the student To Design Web Pages To give introduction to the Internet To give an Exposure to resources and tools for using, managing and creating material for the Internet and World-Wide Web.
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2018 - 2019

Course Code	Course Title	COURSE OBJECTIVES
PG1M1	Algebra I	To introduce various algebraic structures.To study the properties of these structures.
PG1M2	Real Analysis	• To provide the students a comprehensive idea about the principles of Real Analysis. Real Analysis is the foundation of pure Mathematics and the idea of Real Analysis is used in Topology, Functional Analysis, Complex Analysis and Measure Theory.
PG1M3	Number Theory	• The aim of this course is to help students to appreciate the elegant results in Number Theory. Students will learn the concepts like Divisibility, Congruences, Quadratic Reciprocity, some functions and Diophantine equations of Number Theory.
PG1M4	Mechanics	• The aim of the course is to help the students to understand mechanics of a particle, Lagrange's equations, Hamilton's principles, Two body problem and Kepler's problem.

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PGMEDC	Optimization Methods	• This course helps the students to convert real life problems into mathematical models and solve them using various techniques. Also they will learn Transportation Assignment Problems, Sequencing Problem , Network Scheduling by PERT/CPM, Game Theory, Permutation and Combination.
PG2M5	Algebra Ii	• This Course introduces students to the third algebraic model, field theory, algebra of linear transformation and various types of operators.
PG2M6	Measure And Integration	• To provide the students a comprehensive idea about the measures on the real line, Integration of Functions of a real variable, Extension of Riemann integration, Abstract Measure Spaces, Signed Measures and their derivatives, Measure and Integration in a Product space.
PG2M7	Differential Equations	 To give an in-depth knowledge of solving differential equations which is frequently used in Physics, Chemistry, Biology, Economics and Mechanics.
PG2M8	Graph Theory	• The aim of the course is to introduce to the students Graph Theory as an important branch of Mathematics and to motivate them to appreciate the applications of Graph Theory in various fields such as Chemistry,



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		Physics, Operations Research, Sociology and Computer Sciences and Electrical Engineering etc.
PG3M9	Topology	• To generalize the concepts which the students have learnt in Real Analysis and to train the students to develop logical thinking.
PG3M10	Functional Analysis	• To study the three structure theorems of Functional Analysis viz., Banach theorem, open mapping theorem and uniform bounded ness principle, Hilbert spaces and operator theory leading to the spectral theory of operators on a Hilbert spaces.
PG3M11	Optimization Techniques	• To make the students to become aware of and appreciate the potential of the theory of optimization and to introduce various decision making tools and techniques based on optimization.
PG3M12	Combinatorics	• To introduce combinatorial techniques for solving enumeration problems.
ELECTIVE PG3ME1	Research Methodology	• To enable the students to study the Research Methodology and some concepts of Measurability, L ^p Spaces, Fourier Transforms and Banach algebras.

ADURAL	Criterion Metric Year	 II - Teaching-Learning and Evaluation 2.6.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) - M. SC. MATHEMATICS 2015 - 2020 		
PG3	EME1	Java Programming	To develop OO Programming.To develop Multithreaded Programs.	
PG4	·M13	Complex Analysis	• To introduce the students to the world of complex variable theory which is markedly different from analysis of real variable.	
PG4	M14	Statistics	• The objective of this course is to develop an ability in the students to	

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PG4M15

Statistics	• The objective of this course is to develop an ability in the students to
	apply statistical methods to real life problem, to understand the
	limitations of these methods, to think probabilistically and to
	understand the estimation theory and to test the hypothesis of different
	types.
Methods Of Applied	• To enable the students to know the concepts of Calculus of variations,
Mathematics	Integral equations, Neumann series and Fourier transforms.

	Mathematics	Integral equations, Neumann series and Fourier transforms.
ELECTIVE PG4ME3	Formal Languages	• The aim of this course is to enable the students to understand the basic ideas of Automata Theory. The course deals with the following concepts: Regular expressions, two way finite automata, context free grammar and Push down automata.
PG4ME4	Web Designing Using	• To enable the student

ARTINA COLLEGE	Criterion Metric Year	 II - Teaching-Learning and Evaluation 2.6.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) - M. SC. MATHEMATICS 2015 - 2020 		Frina Cologe
		Html	 To Design Web Pages To give introduction to the Internet To give an Exposure to resources and tools for using, managing and 	

creating material for the Internet and World-Wide Web.

2017 - 2018

Course Code	Course Title	COURSE OBJECTIVES
PG1M1	Algebra I	 To introduce various algebraic structures. To study the properties of these structures.
PG1M2	Real Analysis	• To provide the students a comprehensive idea about the principles of Real Analysis. Real Analysis is the foundation of pure Mathematics and the idea of Real Analysis is used in Topology, Functional Analysis, Complex Analysis and Measure Theory.
PG1M3	Number Theory	• The aim of this course is to help students to appreciate the elegant results in Number Theory. Students will learn the concepts like Divisibility, Congruencies, Quadratic Reciprocity, some functions and



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		Diophantine equations of Number Theory.
PG1M4	Mechanics	• The aim of the course is to help the students to understand mechanics of a particle, Lagrange's equations, Hamilton's principles, Two body problem and Kepler's problem.
PGMEDC	Optimization Methods	• This course helps the students to convert real life problems into mathematical models and solve them using various techniques. Also they will learn Transportation Assignment Problems, Sequencing Problem , Network Scheduling by PERT/CPM, Game Theory, Permutation and Combination.
PG2M5	Algebra II	• This Course introduces students to the third algebraic model, field theory, algebra of linear transformation and various types of operators.
PG2M6	Measure and Integration	• To provide the students a comprehensive idea about the measures on the real line, Integration of Functions of a real variable, Extension of Riemann integration, Abstract Measure Spaces, Signed Measures and their derivatives, Measure and Integration in a Product space.
PG2M7	Differential Equations	• To give an in-depth knowledge of solving differential equations which is



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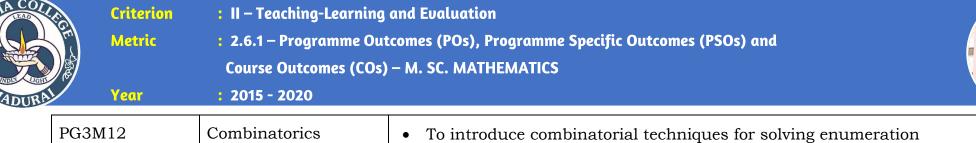
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		frequently usedin Physics, Chemistry, Biology, Economics and Mechanics.
PG2M8	Graph Theory	• The aim of the course is to introduce to the students Graph Theory as an important branch of Mathematics and to motivate them to appreciate the applications of Graph Theory in various fields such as Chemistry, Physics, Operations Research, Sociology and Computer Sciences and Electrical Engineering etc.
PG3M9	Topology	• To generalize the concepts which the students have learnt in Real Analysis and to train the students to develop logical thinking.
PG3M10	Functional Analysis	• To study the three structure theorems of Functional Analysis viz., Banach theorem, open mapping theorem and uniform bounded ness principle, Hilbert spaces and operator theory leading to the spectral theory of operators on a Hilbert spaces.
PG3M11	Optimization Techniques	• To make the students to become aware of and appreciate the potential of the theory of optimization and to introduce various decision making tools and techniques based on optimization



PG3M12	Combinatorics	To introduce combinatorial techniques for solving enumeration problems.
ELECTIVE PG3ME1	Research Methodology	• To enable the students to study the Research Methodology and some concepts of Measurability, L ^p Spaces, Fourier Transforms and Banach algebras.
PG3ME2	JAVA Programming	 To develop OO Programming. To develop Multithreaded Programs.
PG4M13	Complex Analysis	• To introduce the students to the world of complex variable theory this is markedly different from analysis of real variable.
PG4M14	Statistics	• The objective of this course is to develop an ability in the students to apply statistical methods to real life problem, to understand the limitations of these methods, to think probabilistically and to understand the estimation theory and to test the hypothesis of different types.
PG4M15	Methods of Applied Mathematics	• To enable the students to know the concepts of Calculus of variations, Integral equations, Neumann series and Fourier transforms.

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AT INA COLLA	Criterion Metric Year		and Evaluation tecomes (POs), Programme Specific Outcomes (PSOs) and - M. SC. MATHEMATICS
	ELECTIVE PG4ME3	Formal Languages	• The aim of this course is to enable the students to understand the basic ideas of Automata Theory. The course deals with the following concepts: Regular expressions, two way finite automata, context free grammar and Push down automata.
	PG4ME4	Web Designing using HTML	 To enable the student To Design Web Pages To give introduction to the Internet To give an Exposure to resources and tools for using, managing and creating material for the Internet and World-Wide Web.

2016 - 2017

COURSE CODE	Course Title	COURSE OBJECTIVES
PG1M1	Algebra I	To introduce various algebraic structures.To study the properties of these structures.
PG1M2	Real Analysis	• To provide the students a comprehensive idea about the principles of Real Analysis. Real Analysis is the foundation of pure Mathematics and



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Criterion : II - Teaching-Learning and Evaluation : 2.6.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and **Course Outcomes (COs) – M. SC. MATHEMATICS**



		the idea of Real Analysis is used in Topology, Functional Analysis, Complex Analysis and Measure Theory.
PG1M3	Number Theory	• The aim of this course is to help students to appreciate the elegant results in Number Theory. Students will learn the concepts like Divisibility, Congruences, Quadratic Reciprocity, some functions and Diophantine equations of Number Theory.
PG1M4	Mechanics	• The aim of the course is to help the students to understand mechanics of a particle, Lagrange's equations, Hamilton's principles, Two body problem and Kepler's problem.
PGMEDC	Optimization Methods	• This course helps the students to convert real life problems into mathematical models and solve them using various techniques. Also they will learn Transportation Assignment Problems, Sequencing Problem , Network Scheduling by PERT/CPM, Game Theory, Permutation and Combination.
PG2M5	Algebra II	• This Course introduces students to the third algebraic model, field theory, algebra of linear transformation and various types of operators.

ifer -	Criterion Metric Year		tcomes (POs), Programme Specific Outcomes (PSOs) and) – M. SC. MATHEMATICS
PG2M	I6	Measure and Integration	• To provide the students a comprehensive idea about the measures on the real line, Integration of Functions of a real variable, Extension of Riemann integration, Abstract Measure Spaces, Signed Measures and their derivatives, Measure and Integration in a Product space .
PG2M	17	Differential Equations	• To give an in-depth knowledge of solving differential equations this is frequently used in Physics, Chemistry, Biology, Economics and Mechanics.
PG2M	18	Graph Theory	• The aim of the course is to introduce to the students Graph Theory as an important branch of Mathematics and to motivate them to appreciate the applications of Graph Theory in various fields such as Chemistry, Physics, Operations Research, Sociology and Computer Sciences and Electrical Engineering etc.
PG3M	19	Topology	• To generalize the concepts which the students have learnt in Real Analysis and to train the students to develop logical thinking.
PG3M	110	Functional Analysis	• To study the three structure theorems of Functional Analysis viz., Banach theorem, open mapping theorem and uniform bounded ness principle, Hilbert spaces and operator theory leading to the spectral

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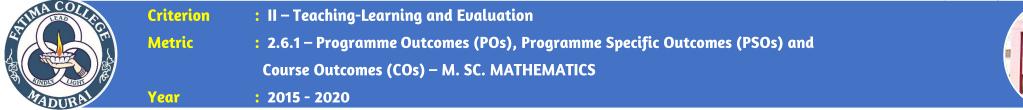
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		theory of operators on a Hilbert spaces.
PG3M11	Optimization Techniques	• To make the students to become aware of and appreciate the potential of the theory of optimization and to introduce various decision making tools and techniques based on optimization.
PG3M12	Combinatorics	To introduce combinatorial techniques for solving enumeration problems.
PG3ME1	JAVA Programming	• To develop OO Programming. To develop Multithreaded Programs.
PG4M13	Complex Analysis	• To introduce the students to the world of complex variable theory this is markedly different from analysis of real variable.
PG4M14	Statistics	• The objective of this course is to develop an ability in the students to apply statistical methods to real life problem, to understand the limitations of these methods, to think probabilistically and to understand the estimation theory and to test the hypothesis of different types.
PG4M15	Methods of Applied Mathematics	• To enable the students to know the concepts of Calculus of variations, Integral equations, Neumann series and Fourier transforms.

Criterion Metric Year	: 2.6.1 – Programme Ou	and Evaluation tcomes (POs), Programme Specific Outcomes (PSOs) and) – M. SC. MATHEMATICS
ELECTIVE PG4ME1	Fuzzy sets and Applications	• The aim of this course is to enable the students to understand the basic ideas of Fuzzy Sets. The course deals with the following concepts: crisp set and Fuzzy set, operations on Fuzzy sets, Fuzzy relations, Fuzzy measures and its applications
PG4ME2	Web Designing using HTML & JAVA Script	 To enable the student To Design Web Pages To give introduction to the Internet To give an Exposure to resources and tools for using, managing and creating material for the Internet and World-Wide Web.
PG4ME3	Formal Languages	• The aim of this course is to enable the students to understand the basic ideas of Automata Theory. The course deals with the following concepts Regular expressions, two way finite automata, context free grammar and Push down automata.





2015 - 2016

COURSE CODE	Course Title	COURSE OBJECTIVES
PG1M1	Algebra I	To introduce various algebraic structures.To study the properties of these structures.
PG1M2	Real Analysis	• To provide the students a comprehensive idea about the principles of Real Analysis. Real Analysis is the foundation of pure Mathematics and the idea of Real Analysis is used in Topology, Functional Analysis, Complex Analysis and Measure Theory.
PG1M3	Number Theory	• The aim of this course is to help students to appreciate the elegant results in Number Theory. Students will learn the concepts like Divisibility, Congruences, Quadratic Reciprocity, some functions and Diophantine equations of Number Theory.
PG1M4	Mechanics	• The aim of the course is to help the students to understand mechanics of a particle, Lagrange's equations, Hamilton's principles, Two body problem and Kepler's problem.

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PGMEDC	Optimization Methods• This course helps the students to convert real life problems into mathematical models and solve them using various techniques. Also they will learn Transportation Assignment Problems, Sequencing Problem , Network Scheduling by PERT/CPM, Game Theory, Permutation and Combination.	
PG2M5	Algebra II • This Course introduces students to the third algebraic model, field theory, algebra of linear transformation and various types of operators	s.
PG2M6	Measure and Integration • To provide the students a comprehensive idea about the measures on the real line, Integration of Functions of a real variable, Extension of Riemann integration, Abstract Measure Spaces, Signed Measures and their derivatives, Measure and Integration in a Product space	
PG2M7	Differential Equations - To give an in-depth knowledge of solving differential equations this is frequently used in Physics, Chemistry, Biology, Economics and Mechanics.	
PG2M8	Graph Theory • The aim of the course is to introduce to the students Graph Theory as an important branch of Mathematics and to motivate them to appreciate the applications of Graph Theory in various fields such as	S



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		Chemistry, Physics, Operations Research, Sociology and Computer Sciences and Electrical Engineering etc.
PG3M9	Topology	• To generalize the concepts which the students have learnt in Real Analysis and to train the students to develop logical thinking.
PG3M10	Functional Analysis	• To study the three structure theorems of Functional Analysis viz., Banach theorem, open mapping theorem and uniform boundedness principle, Hilbert spaces and operator theory leading to the spectral theory of operators on a Hilbert spaces.
PG3M11	Optimization Techniques	• To make the students to become aware of and appreciate the potential of the theory of optimization and to introduce various decision making tools and techniques based on optimization.
PG3M12	Combinatorics	• To introduce combinatorial techniques for solving enumeration problems.
PG3ME1	JAVA Programming	To develop OO Programming.To develop Multithreaded Programs.
PG4M13	Complex Analysis	• To introduce the students to the world of complex variable theory this



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		is markedly different from analysis of real variable.
PG4M14	Statistics	• The objective of this course is to develop an ability in the students to apply statistical methods to real life problem, to understand the limitations of these methods, to think probabilistically and to understand the estimation theory and to test the hypothesis of different types.
PG4M15	Methods of Applied Mathematics	• To enable the students to know the concepts of Calculus of variations, Integral equations, Neumann series and Fourier transforms.
ELECTIVE PG4ME1	Fuzzy sets and Applications	• The aim of this course is to enable the students to understand the basic ideas of Fuzzy Sets. The course deals with the following concepts: crisp set and Fuzzy set, operations on Fuzzy sets, Fuzzy relations, Fuzzy measures and its applications
PG4ME2	Web Designing using HTML & JAVA Script	 To enable the student To Design Web Pages To give introduction to the Internet To give an Exposure to resources and tools for using, managing and creating material for the Internet and World-Wide Web.

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	PG4ME3	Formal Languages	• The aim of this course is to enable the students to understand the basic ideas of Automata Theory. The course deals with the following concepts: Regular expressions, two way finite automata, context free grammar and Push down automata.	

