



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS



COURSE OUTCOMES
(AY: 2020 – 24)



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571438

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES (AY: 2023 – 24)



Course Title: Mathematics-I for
Mechanical Engineering stream

Course Code: BMATM101 COURSE CODE:C

CO's	DESCRIPTION OF THE OUTCOMES
BMATM101.1	Apply the knowledge of calculus to solve problems related to polar curves.
BMATM101.2	Analyze the concept of partial differentiation to compute rate of change of multivariate functions.
BMATM101.3	Analyze the solution of linear and nonlinear ordinary differential equations and higher order differential equations related to Engineering applications
BMATM101.4	Make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors.
BMATM101.5	Solving complex Engineering Problems using PYTHON

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATM101.1	3											
BMATM101.2		3										
BMATM101.3		3										
BMATM101.4	3											
BMATM101.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on / /2023

Institute Level

Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571438

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES (AY: 2023 – 24)



Course Title: Mathematics-I for Civil
Engineering stream

Course Code: BMATC101 COURSE CODE:C

CO's	DESCRIPTION OF THE OUTCOMES
BMATC101.1	Apply the knowledge of calculus to solve problems related to polar curves.
BMATC101.2	Analyze the concept of partial differentiation to compute rate of change of multivariate functions.
BMATC101.3	Analyze the solution of linear and nonlinear ordinary differential equations and higher order differential equations related to Engineering applications
BMATC101.4	Make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors.
BMATC101.5	Solving complex Engineering Problems using PYTHON

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATC101.1	3											
BMATC101.2		3										
BMATC101.3		3										
BMATC101.4	3											
BMATC101.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on /04/2023

Institute Level

Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571438

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES (AY: 2023 – 24)



Course Title: Mathematics-I for Electrical & Electronics Engineering Stream

Course Code: BMATE101 COURSE CODE:C

CO's	DESCRIPTION OF THE OUTCOMES
BMATE101.1	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions
BMATE101.2	Analyze the solution of linear and nonlinear ordinary differential equations
BMATE101.3	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.
BMATE101.4	Make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors
BMATE101.5	Solving complex Engineering Problems using PYTHON

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATE101.1	3											
BMATE101.2		3										
BMATE101.3	3											
BMATE101.4	3											
BMATE101.5					3							
Average of CO'S	3	3			3							

Faculty Signature				

Approval of the COs and their mapping with POs on //2023

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571438

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES (AY: 2023 – 24)



**Course Title: Mathematics-I for Computer
Science and Engineering stream**

Course Code: BMATS101 COURSE CODE:C

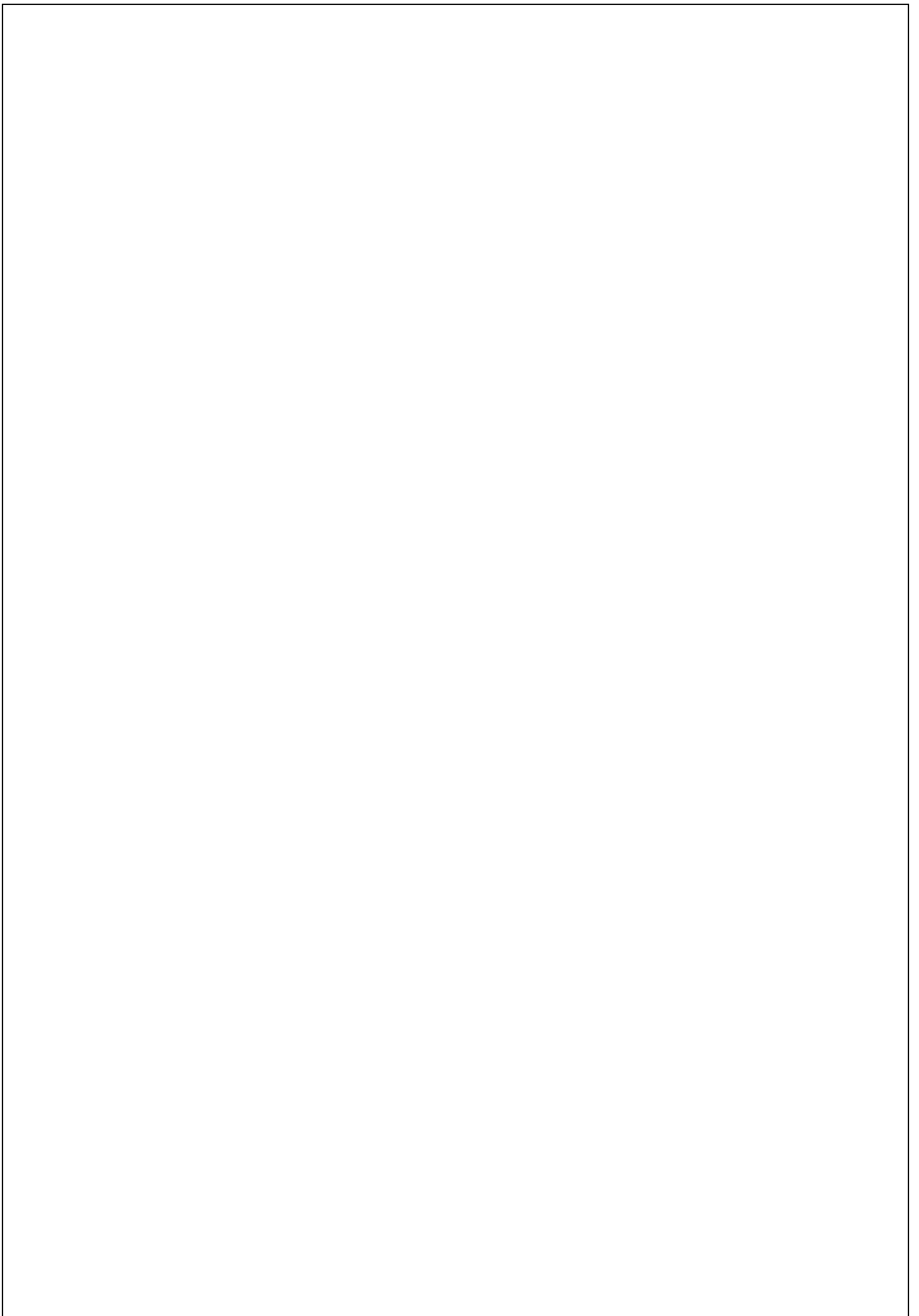
CO's	DESCRIPTION OF THE OUTCOMES
BMATS101.1	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions
BMATS101.2	Analyze the solution of linear and nonlinear ordinary differential equations
BMATS101.3	Apply the knowledge of modular arithmetic to computer algorithms
BMATS101.4	Make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors
BMATS101.5	Solving complex Engineering Problems using PYTHON

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATS101.1	3											
BMATS101.2		3										
BMATS101.3	3											
BMATS101.4	3											
BMATS101.5					3							
Average of CO'S	3	3			3							

Faculty Signature				

Approval of the COs and their mapping with POs on / /2023

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal





MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

SUBJECT: MATHEMATICS – 1 FOR COMPUTER SCIENCE STREAM

SUBJECT CODE : BMATS101

CO's	DESCRIPTION OF THE OUTCOMES
BMATS101.1	Apply the knowledge of calculus and Linear algebra to solve problems related to Engineering applications
BMATS101.2	Analyze the concept of partial differentiation to determine rates of change of multivariate functions.
BMATS101.3	Solve analytically linear and nonlinear differential equation related to Engineering applications
BMATS101.4	Apply the knowledge of Modular arithmetic to computer algorithms
BMATS101.5	Solving complex Engineering problem using python

CO/PO	P O 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATS101.1	3											
BMATS101.2		3										
BMATS101.3	3											
BMATS101.4	3											
BMATS101.5	3				3							
Average of CO'S	3	3			3							

Faculty Signature												

Approval of the COs and their mapping with POs on __/__/_____

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

**SUBJECT: MATHEMATICS–I FOR ELECTRICAL AND ELECTRONICS
ENGINEERING STREAM**

SUBJECT CODE : BMATE101

CO's	DESCRIPTION OF THE OUTCOMES
BMATE101.1	Apply the knowledge of calculus and Linear algebra to solve problems related to Engineering applications
BMATE101.2	Analyze the concept of partial differentiation to determine rates of change of multivariate functions.
BMATE101.3	Solve analytically linear and nonlinear differential equation related to Engineering applications
BMATE101.4	Apply the concept of change the order of integration and variables to evaluate Multiple integrals and their usage in computing area and volume.
BMATE101.5	Solving complex Engineering problem using python

CO/PO	P O 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATE101.1	3											
BMATE101.2		3										
BMATE101.3	3											
BMATE101.4	3											
BMATE101.5	3				3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on __/__/____

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

SUBJECT: MATHEMATICS – I FOR MECHANICAL ENGINEERING STREAM

SUBJECT CODE : BMATM101

CO's	DESCRIPTION OF THE OUTCOMES
BMATM101.1	Apply the knowledge of calculus and Linear algebra to solve problems related to Engineering applications
BMATM101.2	Analyze the concept of partial differentiation to calculate rates of change of multivariate functions.
BMATM101.3	Solve analytically linear and nonlinear differential equation related to Engineering applications
BMATM101.4	Illustrate various models through higher order differential equations.
BMATM101.5	Solving complex Engineering problem using python

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATM101.1	3											
BMATM101.2		3										
BMATM101.3	3											
BMATM101.4	3											
BMATM101.5	3				3							
Average of CO'S	3	3			3							
Faculty Signature												

Approval of the COs and their mapping with POs on __/__/____

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

SUBJECT: MATHEMATICS – I FOR CIVIL ENGINEERING STREAM

SUBJECT CODE : BMATC101

CO's	DESCRIPTION OF THE OUTCOMES
BMATC101.1	Apply the knowledge of calculus and Linear algebra to solve problems related to Engineering applications
BMATC101.2	Analyze the concept of partial differentiation to calculate rates of change of multivariate functions.
BMATC101.3	Solve analytically linear and nonlinear differential equation related to Engineering applications
BMATC101.4	Illustrate various models through higher order differential equations.
BMATC101.5	Solving complex Engineering problem using python

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3											
BMATC101.1		3										
BMATC101.2	3											
BMATC101.3	3											
BMATC101.4	3				3							
Average of CO'S	3	3			3							
Faculty Signature												

Approval of the COs and their mapping with POs on __/__/____

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

Course Title: Mathematics-II for Mechanical Engineering stream

Course Code: BMATM201 Course Code: C

CO's	DESCRIPTION OF THE OUTCOMES
BMATM201.1	Apply the knowledge of multiple integrals to compute area and volume.
BMATM201.2	Illustrate the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.
BMATM201.3	Demonstrate partial differential equations and their solutions for physical interpretations.
BMATM201.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena.
BMATM201.5	Using modern mathematical tools, prediction and modeling the complex engineering problems by MatLab or Python.

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATM201.1	3											
BMATM201.2		3										
BMATM201.3		3										
BMATM201.4	3											
BMATM201.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on /0 /2023

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

**Course Title: Mathematics-II for
Civil Engineering Stream**

Course Code: BMATC201 Course Code: C

CO's	DESCRIPTION OF THE OUTCOMES
BMATC201.1	Apply the knowledge of multiple integrals to compute area and volume
BMATC201.2	Illustrate the applications of vector calculus refer to solenoidal , irrotational vectors, line integral and surface integral.
BMATC201.3	Demonstrate partial differential equations and their solutions for physical interpretations.
BMATC201.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena..
BMATC201.5	Using modern mathematical tools, prediction and modeling the complex engineering problems by MatLab or Python

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATC201.1	3											
BMATC201.2		3										
BMATC201.3		3										
BMATC201.4	3											
BMATC201.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on /0 /2023

Institute Level

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MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

Course Title: Mathematics-II for Electrical & Electronics Engineering Stream

Course Code: BMATE201 Course Code: C

CO's	DESCRIPTION OF THE OUTCOMES
BMATE201.1	Illustrate the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.
BMATE201.2	Demonstrate the idea of Linear dependence and independence of sets in the vector space and linear transformation.
BMATE201.3	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
BMATE201.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena.
BMATE201.5	Using modern mathematical tools, prediction and modeling the complex engineering problems by MatLab or Python.

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATE201.1	3											
BMATE201.2		3										
BMATE201.3		3										
BMATE201.4	3											
BMATE201.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on /0 /2023

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS

Course Title: Mathematics-II for Computer Science and Engineering stream

Course Code: BMATS201 Course Code: C

CO's	DESCRIPTION OF THE OUTCOMES
BMATS201.1	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.
BMATS201.2	Illustrate the applications of vector calculus refer to solenoidal, irrotational vectors, Orthogonal , curvilinear coordinates.
BMATS201.3	Demonstrate the idea of Linear dependence and independence of sets in the vector space and linear transformation
BMATS201.4	Apply the knowledge of numerical methods in analysing the discrete data and solving the physical and engineering problems.
BMATS201.5	Using modern mathematical tools, prediction and modeling the complex engineering problems by MatLab or Python.

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
BMATS201.1	3											
BMATS201.2		3										
BMATS201.3		3										
BMATS201.4	3											
BMATS201.5					3							
Average of CO'S	3	3			3							

Faculty Signature

Approval of the COs and their mapping with POs on /0 /2023

Institute Level

Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
COURSE OUTCOMES (AY: 2022– 23)



DEPARTMENT OF MATHEMATICS



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
(2021-22)



DEPARTMENT OF MATHEMATICS

SUBJECT: CALCULUS AND DIFFERENTIAL EQUATIONS SUBJECT CODE: 21MAT11 COURSE CODE: C

CO's	DESCRIPTION OF THE OUTCOMES
21MAT11.1	Apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve.
21MAT11.2	Analyze the concept of partial differentiation to calculate the rates of change of multivariate functions and solve problems related to composite functions and Jacobians.
21MAT11.3	Solve first-order linear/nonlinear ordinary differential equations analytically using standard methods
21MAT11.4	Demonstrate various models through higher order differential equations and solve such linear ordinary differential equations.
21MAT11.5	Test the consistency of a system of linear equations and to solve them by direct and iterative methods.

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
21MAT11.1	3	-										
21MAT11.2	-	3										
21MAT11.3	3	-										
21MAT11.4	3	-										
21MAT11.5	2	2										
Average of CO'S	2.75	2.5										

Faculty Signature

Approval of the COs and their mapping with POs on 13/11/2021

Institute Level

Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571477, KARNATAKA
(2021-22)



DEPARTMENT OF MATHEMATICS

SUBJECT: ADVANCED CALCULUS
&
NUMERICAL METHODS

SUBJECT CODE:21MAT21

COURSE CODE: C

CO's	DESCRIPTION OF THE OUTCOMES
21MAT21.1	Solve multiple integrals problems and their usage in computing the Area, Volumes by using concept of change the order of integration.
21MAT22.2	Illustrate the applications of multivariate calculus to understand the solenoidal, irrotational vectors and also exhibit the inter dependence of line, surface and volume integrals.
21MAT23.3	Analyze a variety of partial differential equations and solution by exact methods/method of separation of variables.
21MAT24.4	Apply the knowledge of numerical methods in the modelling of various physical and engineering phenomena.
21MAT25.5	Solve first order ordinary differential equations arising in engineering problems.

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
21MAT21.1	3	-										
21MAT22.2	3	-										
21MAT23.3	-	3										
21MAT24.4	3	-										
21MAT25.5	3	-										
Average of CO'S	3	3										

Faculty Signature

Approval of the COs and their mapping with POs on 02/05/2022

Institute Level		
Criteria 8 Main Coordinator	NBA Convener	Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS



COURSE OUTCOME (2021-22)

Subject:-TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code:-18MAT31

Course Code:-C201

Course Outcomes:-At the end of the course the student will be able to

CO's	DESCRIPTION OF THE OUTCOMES
C201.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
C201.2	Employ Fourier series to study the behavior of periodic functions and their applications in system communications, digital signal processing and field theory.
C201.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C201.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
C201.5	Examine the extremals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C201.1	3											
C201.2	3											
C201.3		3										
C201.4	3											
C201.5		3										
C201	3	3										

Ajay C K		Ajaykumar M	Nataraj K
Faculty in charge		Course Coordinator	
Ajaykumar M NBA coordinator		Indumathi R S Criteria 3 Coordinator	Dr. Srinivasa A H HOD
Convener		Principal	



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS



Course Outcome (2021-22)

Subject:- COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHOD

Subject Code:- 18MAT41

Course Code:-C213

Course Outcomes: - At the end of the course the student will be able to

CO'S	DESCRIPTION OF THE OUTCOMES
C213.1	Construct analytic functions and solve real and complex integral problems.
C213.2	Analyze the probability models in various engineering fields.
C213.3	Apply the method of least squares to fit a linear curve, quadratic curve and geometric curve for a statistical data.
C213.4	Apply the concept of correlation and regression to fit suitable mathematical models for the statistical data.
C213.5	Analyze joint probability distribution and estimate the test of hypothesis.

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C213.1	3											
C213.2		3										
C213.3	3											
C213.4	3											
C213.5		3										
C213	3	3										

Dr. A H Srinivasa	Seema S	Nataraj K
Faculty		Course Coordinator
Ajaykumar M	Criteria 3 Coordinator	Dr. Srinivasa A.H
NBA coordinator		HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS



COURSE OUTCOME (2022-23)

Subject:-TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code:-21MAT31

Course Code:-C201

Course Outcomes:-At the end of the course the student will be able to

CO's	DESCRIPTION OF THE OUTCOMES
C201.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
C201.2	Employ Fourier series to study the behavior of periodic functions and their applications in system communications, digital signal processing and field theory.
C201.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C201.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
C201.5	Examine the extremals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C201.1	3											
C201.2	3											
C201.3		3										
C201.4	3											
C201.5		3										
C201	3	3										

Dr. Purushothama S		Bhanupriya B K	Nataraj K
Faculty in charge		Course Coordinator	
Ajaykumar M NBA coordinator		Indumathi R S Criteria 3 Coordinator	
Convener		Dr. Srinivasa A H HOD	
		Principal	



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS



Course Outcome (2022-23)

Subject:- COMPLEX ANALYSIS, PROBABILITY AND LINEAR PROGRAMMING

Subject Code:-21MATME41

Course Code:-C213

Course Outcomes: - At the end of the course the student will be able to

CO'S	DESCRIPTION OF THE OUTCOMES
C213.1	Use the concepts of an analytic function and complex potentials to solve the problems arising in fluid flow.
C213.2	Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow visualisation and image processing.
C213.3	Apply discrete and continuous probability distributions in analyzing the probability models arising in the engineering field.
C213.4	Analyze and solve linear programming models of real – life situations and solve LPP by simplex method.
C213.5	Learn techniques to solve Transportation and Assignment problems.

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C213.1	3											
C213.2		3										
C213.3	3											
C213.4	3											
C213.5		3										
C213	3	3										

Dr. Indumathi R S	Vinayaka Bhandari	Nataraj K
Faculty in- charge		Course Coordinator
Dr. Ajaykumar M NBA coordinator	Criteria 3 Coordinator Dr. Indumathi R S	Dr. Srinivasa A.H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477



DEPARTMENT OF MATHEMATICS

COURSE OUTCOME (2022-23)

Subject:- TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code:- 21MAT31

Course Code:- C231

Course Outcomes:- At the end of the course the student will be able to

CO's	DESCRIPTION OF THE OUTCOMES
C231.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
C231.2	Employ Fourier series to study the behavior of periodic functions and their applications in system communications, digital signal processing and field theory.
C231.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C231.4	To solve the first and second order partial differential equations arising in engineering problems make use of single step and multistep numerical methods.
C231.5	Examine the extremals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C231.1	3											
C231.2	3											
C231.3		3										
C231.4	3											
C231.5		3										
C231	3	3										

Dr. Indumathi R S		Seema S	Bhanupriya B K
Faculty in charge		Course Coordinator	
Dr. Ajaykumar M NBA coordinator	Dr. Indumathi R S Criteria 3 Coordinator		Dr. Srinivasa A H HOD
Convener			Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477



DEPARTMENT OF MATHEMATICS

COURSE OUTCOME (2022-23)

Subject: MATHEMATICAL FOUNDATION FOR COMPUTING, PROBABILITY & STATISTICS

Subject Code:-21MATCS41

Course Code:-C241

Course Outcomes:-At the end of the course the student will be able to

CO's	DESCRIPTION OF THE OUTCOMES
C241.1	Apply the concepts of logic for effective computation & relating problems in Computer science & allied branches.
C241.2	Analysis of concepts of functions & relations to various fields of Engineering , comprehended the concepts of Graph Theory for various applications of Computational science
C241.3	Apply discrete & continuous probability distributions in analysing the probability models arising in Computer science & allied branches.
C241.4	Make use of the correlation & regression analysis to fit a suitable mathematical model for the statistical data.
C241.5	Construct joint probability distribution & demonstrate the validity of testing the hypothesis

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C241.1	3											
C241.2		3										
C241.3	3											
C241.4		3										
C241.5	3											
C241	3	3										

Dr. Ajaykumar M Sindhushree M V Bhanupriya B K		Bhanupriya B K
Faculty in charge		Course Coordinator
Dr. Ajaykumar M NBA coordinator	Dr.Indumathi R S Criteria 3 Coordinator	Dr. Srinivasa A H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS
COURSE OUTCOME (2021-22)



Subject: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code: 18MAT31

Course Code: C231

CO's	DESCRIPTION OF THE OUTCOMES
18MAT31.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
18MAT31.2	Employ Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
18MAT31.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
18MAT31.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
18MAT31.5	Examine the externals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
18MAT31.1	3	-										
18MAT31.2	3	-										
18MAT31.3	-	3										
18MAT31.4	3	-										
18MAT31.5	-	3										
CO Average	3	3										

Vinayak Bhandari	Nataraj K	Vinayak Bhandari
Faculty		Course Coordinator

Ajaykumar M NBA coordinator	Criteria 3 Coordinator	Dr.Srinivasa A.H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS
COURSE OUTCOME (2021-22)



Subject:- COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS

Subject Code: - 18MAT41

Course Code:-C241

Course Outcomes: - At the end of the course the student will be able to

CO'S	DESCRIPTION OF THE OUTCOMES
18MAT41.1	Construct analytic functions and solve real and complex integral problems.
18MAT41.2	Analyze the probability models in various engineering fields.
18MAT41.3	Apply the method of least squares to fit a linear curve, quadratic curve and geometric curve for a statistical data.
18MAT41.4	Apply the concept of correlation and regression to fit suitable mathematical models for the statistical data.
18MAT41.5	Analyze joint probability distribution and estimate the test of hypothesis.

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
18MAT41.1	3	-										
18MAT41.2	-	3										
18MAT41.3	3	-										
18MAT41.4	3	-										
18MAT41.5	-	3										
18MAT41	3	3										

Approval of the COs and their mapping with POs on 12/04/2021

Vinayak Bhandari , Nataraj K, Ajay C K		Vinayak Bhandari
Faculty		Course Coordinator
Ajaykumar M NBA coordinator	Criteria 3 Coordinator	Dr.Srinivasa A.H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477
DEPARTMENT OF MATHEMATICS
COURSE OUTCOME (2022-23)





MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS



Course Outcome (2021-22)

Subject: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code: 18MAT31

Course Code: C231

CO's	DESCRIPTION OF THE OUTCOMES
C231.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
C231.2	Employ Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
C231.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C231.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
C231.5	Examine the externals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C231.1	3	-										
C231.2	3	-										
C231.3	-	3										
C231.4	3	-										
C231.5	-	3										
CO Average	3	3										

Ajay Kumar M	Sindhushree M V	Dr. Purushothama S	Ajay C K
Faculty			Course Coordinator

Ajay Kumar M NBA coordinator	Criteria 3 Coordinator	Dr. Srinivasa A H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS



Course Outcome (2021-22)

Subject: COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS

Subject Code: 18MAT41

Course Code: C241

CO's	DESCRIPTION OF THE OUTCOMES
C241.1	Construct analytic functions and solve real and complex integral problems.
C241.2	Analyze the probability models in various engineering fields.
C241.3	Apply the method of least squares to fit a linear curve, quadratic curve and geometric curve for a statistical data.
C241.4	Apply the concept of correlation and regression to fit suitable mathematical models for the statistical data.
C241.5	Analyze joint probability distribution and estimate the test of hypothesis.

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C241.1	3											
C241.2		3										
C241.3	3											
C241.4	3											
C241.5		3										
CO Average	3	3										

Nataraj K	Ajay Kumar M	Ajay C K	Ajay C K
Faculty			Course Coordinator
Ajaykumar M NBA coordinator		Criteria 3 Coordinator	Dr. A H Srinivasa HOD
Convener			Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477



DEPARTMENT OF MATHEMATICS

Course Outcome (2022-23)

Subject: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code: 21MAT31

Course Code: C231

CO's	DESCRIPTION OF THE OUTCOMES
C231.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
C231.2	Employ Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
C231.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C231.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
C231.5	Examine the externals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C231.1	3	-										
C231.2	3	-										
C231.3	-	3										
C231.4	3	-										
C231.5	-	3										
CO Average	3	3										

Indumathi R S	Vinayak Bhandari	Dr Srinivasa A H	Ajay C K
Faculty			Course Coordinator

Ajay Kumar M NBA coordinator	Criteria 3 Coordinator	Dr. Srinivasa A H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS



Course Outcome (2022-23)

Subject: MATHEMATICAL FOUNDATIONS FOR COMPUTING, PROBABILITY & STATISTICS

Subject Code: 21MATCS41

Course Code: C241

CO's	DESCRIPTION OF THE OUTCOMES
C241.1	Apply the concepts of logic for effective computation and relating problems in the engineering domain.
C241.2	Analyze the concepts of functions and relations to various fields of Engineering Comprehend the concepts of Graph Theory for various applications of Computational sciences.
C241.3	Apply discrete and continuous probability distributions in analysing the probability models arising in the engineering field.
C241.4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data.
C241.5	Construct joint probability distribution and estimate the validity of testing the hypothesis.

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
C241.1	3											
C241.2		3										
C241.3	3											
C241.4	3											
C241.5		3										
CO Average	3	3										

Ajay C K	GAGANA M R	SEEMA S	Ajay C K
Faculty			Course Coordinator
Ajaykumar M NBA coordinator	Criteria 3 Coordinator		Dr. A H Srinivasa HOD
Convener			Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477



DEPARTMENT OF MATHEMATICS

Course Outcome (2022-23)

Subject: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code: 21MAT31

Course Code: C231

CO's	DESCRIPTION OF THE OUTCOMES
21MAT31.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
21MAT31.2	Employ Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
21MAT31.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
21MAT31.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
21MAT31.5	Examine the externals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
21MAT31.1	3	-										
21MAT31.2	3	-										
21MAT31.3	-	3										
21MAT31.4	3	-										
21MAT31.5	-	3										
CO Average	3	3										

Dr.Srinivasa A.H	Vinayak Bhandari	Dr Purushothama S
Faculty		Course Coordinator
Ajaykumar M. NBA coordinator	Criteria 3 Coordinator	Dr.Srinivasa A.H HOD
Convener		Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS
Course Outcome (2022-23)



Subject:- COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS

Subject Code: - 21MAT41

Course Code:-

C241

CO'S	DESCRIPTION OF THE OUTCOMES
21MAT41.1	Construct analytic functions and solve real and complex integral problems.
21MAT41.2	Special functions familiarize the power series solution required to analyse the Engineering Problems
21MAT41.3	Apply the method of least squares to fit a linear curve, quadratic curve and geometric curve for a statistical data.
21MAT41.4	Apply the concept of correlation and regression to fit suitable mathematical models for the statistical data.
21MAT41.5	Analyze probability, joint probability distribution and estimate the test of hypothesis.

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
21MAT41.1	3	-										
21MAT41.2	-	3										
21MAT41.3	3	-										
21MAT41.4	3	-										
21MAT41.5	-	3										
21MAT41	3	3										

Dr. Purushothama S		Nataraj K		Dr. Purushothama S	
Faculty				Course Coordinator	
Dr. Ajaykumar M NBA coordinator		Criteria 3 Coordinator		Dr.Srinivasa A.H HOD	
Convener				Principal	



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571477
DEPARTMENT OF MATHEMATICS
Course Outcome (2021-22)



Subject:- COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS

Subject Code: - 18MAT41

Course Code:-C241

CO'S	DESCRIPTION OF THE OUTCOMES
18MAT41.1	Construct analytic functions and solve real and complex integral problems.
18MAT41.2	Analyze the probability models in various engineering fields.
18MAT41.3	Apply the method of least squares to fit a linear curve, quadratic curve and geometric curve for a statistical data.
18MAT41.4	Apply the concept of correlation and regression to fit suitable mathematical models for the statistical data.
18MAT41.5	Analyze joint probability distribution and estimate the test of hypothesis.

CO No.	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
18MAT41.1	3	-										
18MAT41.2	-	3										
18MAT41.3	3	-										
18MAT41.4	3	-										
18MAT41.5	-	3										
18MAT41	3	3										

Indumathi R S	Nataraj K	Dr. Purushothama S	Dr. Purushothama S
Faculty			Course Coordinator
Ajaykumar M NBA coordinator		Criteria 3 Coordinator	Dr.Srinivasa A.H HOD
Convener			Principal



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA Taluk, MANDYA-571477



DEPARTMENT OF MATHEMATICS

Course Outcome (2020-21)

Subject: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUE

Subject Code: 18MAT31

Course Code: C231

CO's	DESCRIPTION OF THE OUTCOMES
18MAT31.1	Solving differential/ integral equation arising in network analysis, control systems and other fields of engineering by Laplace transform and inverse Laplace transform
18MAT31.2	Employ Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
18MAT31.3	Analyze the concept of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
18MAT31.4	To solve the first and second order ordinary differential equations arising in engineering problems make use of single step and multistep numerical methods.
18MAT31.5	Examine the externals of functional using calculus of variations arising in dynamics of rigid bodies and vibrational analysis problems

CO No	PO No											
	1	2	3	4	5	6	7	8	9	10	11	12
18MAT31.1	3	-										
18MAT31.2	3	-										
18MAT31.3	-	3										
18MAT31.4	3	-										
18MAT31.5	-	3										
CO Average	3	3										

Ajay C K	R. S. Indumathi	Sindhushree M V	Dr Purushothama S
Faculty			Course Coordinator
Ajaykumar M. NBA coordinator	Criteria 3 Coordinator		Dr.Srinivasa A.H HOD
Convener			Principal