



MUHAMMED ABDURAHIMAN MEMORIAL ORPHANAGE (MAMO) COLLEGE

[Govt. Aided First Grade College & Affiliated to University of Calicut. Re-Accredited by NAAC with A Grade]



OFFICE OF THE PRINCIPAL

PEOs, PSOs, POs & COs B.Sc MATHEMATICS

1. PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Table 1: Programme Educational Objectives of B.Sc Mathematics

PEO1	Have significant opportunities in various service domains at National and International levels like banking, insurance, government jobs, consultancy, teaching, defence, industry, research and entrepreneurial pursuit.
PEO2	Have leadership quality to handle all kind of circumstances in diversities by providing interdisciplinary and multidisciplinary learning environment.
PEO3	Inculcate value system while working in a team assigned with a important targets they will contribute through their critical thinking and mathematical competence holding the ethical values.
PEO4	Achieve peer recognition as an individual or as a team member having specialized knowledge and expertise to investigate, formulate, analyse and implement on the problems of pure, applied and computational mathematics to compete at global level.
PEO5	Have continuous learning attitude to adopt new skills and techniques to overcome the problems related with new technologies.

2. PROGRAMME SPECIFIC OUTCOMES (PSOs)

Table 2: Programme Specific Outcomes of B.Sc Mathematics

PSO1	Understand the mathematical concepts and applications in the field of algebra, real and complex analysis, optimization, differential equations, Vector calculus etc.
PSO2	Adopt changing scientific environment in the process of sustainable development by using mathematical tools.
PSO3	Handle the advanced techniques in algebra, analysis, optimization, differential equations, engineering, finance and actuarial science to analyse and design algorithms solving variety of problems related to real life problems.
PSO4	Have necessary language skills and expertise in the field of research and developments through seminar and project

3. PROGRAMME OUTCOMES (POs)

Table 3: Programme Outcomes of B.Sc Mathematics



Manassery, Mukkam Post,
Kozhikode, Kerala, India, 673 602.
email: mamocollege@gmail.com



Office: 0495-2297319
Principal: 0495-2295121



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Table 3: Programme Outcomes of B.Sc Mathematics

P01	KNOWLEDGE DOMAIN: Demonstrate an understanding of the basic concepts in mathematics, statistics, operations research and their importance in the solution of some real- world problems.
P02	PROBLEM ANALYSIS: Analyse and solve the well-defined problems in mathematics statistics, and operations research. Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decision. Find, analyse, evaluate and apply information systematically and shall make defensible decisions.
P03	PRESENTATION AND INTERPRETATION OF DATA: Demonstrate the ability to manipulate and visualize data and to compute standard statistical summaries.
P04	ETHICS: Analyse relevant academic, professional and research ethical problems and commit to professional ethics and responsibilities with applicable norms of the data analysis and research practices.
P05	MODERN TOOL USAGE: Learn, select, and apply appropriate methods and procedures, resources and computing tools with an understanding of the limitations.
P06	COMMUNICATION: Effectively communicate about their field of expertise on their activities, with their peer and society at large. Such as, being able to comprehend and write effective reports and design documentation, make effective presentations.
P06	PROJECT MANAGEMENT: Apply Knowledge and understanding of principles of mathematics and statistics effectively as an individual, and as a member or leader in diverse teams to manage projects in multidisciplinary environment.
P06	INDIVIDUAL AND TEAM WORK: Work effectively as an individual, as a member or leader of various teams, and in multi-disciplinary settings.
P06	DESIGN/DEVELOPMENT OF SOLUTIONS: Model the real-world problems in to mathematical equations and draw the inferences by finding appropriate solutions.
P07	LIFE-LONG LEARNING: Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematics.
P08	KNOWLEDGE DOMAIN: Demonstrate an understanding of the basic concepts in mathematics, statistics, operations research and their importance in the solution of some real- world problems.
P09	PROBLEM ANALYSIS: Analyse and solve the well-defined problems in mathematics statistics, and operations research. Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decision. Find, analyse, evaluate



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	and apply information systematically and shall make defensible decisions.
P010	PRESENTATION AND INTERPRETATION OF DATA: Demonstrate the ability to manipulate and visualize data and to compute standard statistical summaries.

4. COURSE OUTCOMES (COs)

Table 4: Courses Outcomes of B.Sc Mathematics

COURSE 1: ENG1A01: TRANSACTIONS: ESSENTIAL ENGLISH LANGUAGE SKILLS

C01	To impart the necessary macro and micro English language skills to the learners to enable them to express their feelings, opinions, ideas and thoughts fluently and accurately in a variety of personal and professional contexts.
C02	To create in learners a definitive sense of the stylistic variations of English and how they are used in real life situations.
C03	To inculcate in learners a taste for deeper pursuit and acquisition of advanced level of skills in English.
C04	To guide them on how to participate in discussions and make seminar presentations with special focus on specific vocabularies and styles of usage in such contexts.

COURSE 2: ENG1A02: WAYS WITH WORDS: LITERATURES IN ENGLISH

C01	To help students develop the acumen to read, appreciate and discuss literature.
C02	To introduce students to the linguistic qualities of a literary text and to unravel the many meanings Of the text
C03	To acquaint the students with different genres of literature and to analyse them.

COURSE 3: ARB1A07: LANGUAGE SKILLS IN ARABIC

C01	To teach the students the basics of interpersonal interaction in Arabic
C02	To train the students to communicate in Arabic in selected situations



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Table 4: Courses Outcomes of B.Sc Mathematics

C03	Enhancement of communication skills in Arabic
C04	Enhancement of translation skills from Arabic to English and vice versa
C05	Demonstrate basic knowledge about environment and acquire skills to help individuals in identifying and solving problem

COURSE 4: HIN1A07(1): PROSE & DRAMA

C01	Approach literary texts in terms of genre, gender and the canon
C02	Understand and use academic conventions: referencing and bibliography.
C03	Exposed to the origin and development of Hindi drama and its various themes and forms of different ages and stages
C04	Helps students explore how writers use the resources language as a creativity to explore the entire range of human experience through dramas as a literary form.

COURSE 5: MAL1A07(1): MALAYALA SAHITHYAM 1

C01	To gain an understanding of the relations between culture, history and texts. They learn to use texts as a gateway to various cultural traditions and interpret them in their historical contexts.
C02	To create in learners a definitive sense of the stylistic variations of Malayalam and how they are used in real life situations.
C03	To inculcate in learners a taste for deeper pursuit and acquisition of advanced level of skills in Malayalam.
C04	To guide them on how to participate in discussions and make seminar presentations with special focus on specific vocabularies and styles of usage in such contexts.

COURSE 6: MTS1B01: BASIC LOGIC AND NUMBER THEORY

C01	Understand basic ideas and 3 classical theorems in number theory
C02	Enables the students to think systematically and apply the facts and theorems logically
C03	Enables to express the ideas in precise mathematical terms



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Table 4: Courses Outcomes of B.Sc Mathematics

C04	Familiarise the learners with many important theorem in number theory
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COURSE 7: STA1C01 – INTRODUCTORY STATISTICS

C01	Generate interest in statistics.
C02	Equip the students with the concept of basic statistics.
C03	Provide basic knowledge about statistical methods.
C04	Make the students aware of various statistical tools.

COURSE 8: CSC1C01 – COMPUTER FUNDAMENTALS

C01	Conversion between various number system
C02	Apply Boolean algebra to real-life problems
C03	Understand basics of Computers
C04	Apply problem solving technique to real-life problems

COURSE 9: AUD1E01: ENVIRONMENTAL STUDIES

C01	To learn the environment in the Indian context
C02	Understand renewable and non-renewable resources
C03	To learn structure and function of an ecosystem
C04	To learn about biodiversity and its consequences
C05	To learn about environmental pollution

COURSE 10: ENG2A03: WRITING FOR ACADEMIC AND PROFESSIONAL



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Table 4: Courses Outcomes of B.Sc Mathematics

C01	To develop writing skills, to learn to integrate writing and thought and to apply the conventions of academic writing correctly.
C02	To acquire the correct sense of format, syntax, grammar, punctuation and spelling.
C03	To acquire concepts, principles and vocabulary of reasoning and argumentation and use analysis, synthesis, and evaluations to advance arguments.
C04	To gain an understanding of discourse conventions ranging from structure and paragraphing to tone and mechanics

COURSE 11: ENG2A02: ZEITGEIST - READINGS ON CONTEMPORARY CULTURE

C01	To inculcate the values enshrined in the constitution of India and to provide an insight on the secular framework of the country.
C02	To familiarize the learners with concepts such as conservation, sustainability and the life of the marginalized and their interconnectedness.
C03	To foster among the learners an awareness of the diverse problems faced by women and the sexual minorities and to promote a culture of inclusion and mutual respect.
C04	To understand the "human" as articulated among the various cultures and promote a multicultural and plural understanding of rights.

COURSE12: ARB2A08: APPRECIATING ARABIC LITERATURE

C01	To make opportunities before the learner to acquaint with classical Literature having ethical association.
C02	To inculcate moral values in the learner through prose literature.
C03	Knowledge of the language of the Quran
C04	Knowledge of the language of the Hadith

COURSE 13: HIN2A08(1): GRAMMAR AND TRANSLATION

C01	Understand the differences between spoken and written Hindi
C02	Understand the factors that influence use of grammar and vocabulary in speech and writing



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Table 4: Courses Outcomes of B.Sc Mathematics

C03	Understand the different ways in which grammar has been described
C04	Define the link between translation theory and translation practice.
C05	Define the effects of translation theories on translation practice.

COURSE 14: MAL2A08(1): MALAYALA SAHITHYAM - 2

C01	To gain an understanding of the relations between culture, history and texts. They learn to use texts as a gateway to various cultural traditions and interpret them in their historical contexts.
C02	To create in learners a definitive sense of the stylistic variations of Malayalam and how they are used in real life situations.
C03	To inculcate in learners a taste for deeper pursuit and acquisition of advanced level of skills in Malayalam.
C04	To guide them on how to participate in discussions and make seminar presentations with special focus on specific vocabularies and styles of usage in such contexts.

COURSE 15: MTS2B02: CALCULUS OF SINGLE VARIABLE - I

C01	Introduction of fundamental ideas of limit continuity differentiability
C02	Introduction of fundamental theorems on calculus
C03	Able to solve optimisation problems in real life
C04	Idea of definite integrals and its applications in real life

COURSE 16: STA2C02 - PROBABILITY THEORY

C01	Create awareness about probability.
C02	Understand various approach to probability and compute probabilities
C03	Derive various descriptive statistics.



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Table 4: Courses Outcomes of B.Sc Mathematics

C04	Verify the existence of reproductive property of distribution.
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COURSE 17: CSC2C02 – FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORKS AND DBMS

C01	Understand basics of the system software
C02	Understand basics of the Computer Networks
C03	Understand basics of the SQL
C04	Apply database concepts & SQL to solve real-life problems

COURSE 18: AUD2E02: DISASTER MANAGEMENT

C01	Impart basic knowledge about Hazards and Disasters
C02	Impart basic knowledge about Natural Disasters
C03	Prepare for disaster Preparedness and Response
C04	Prepare for rehabilitation, reconstruction and recovery

COURSE 19: ENG3A05: SIGNATURES: EXPRESSING THE SELF

C01	To enable the students to read and critically appreciate the different genres of expressing the self.
C02	To appreciate the fluid and flexible narratives of self-expression that transcend the conventions of genre
C03	To understand how personal narratives intersect with the larger social realities
C04	To read personal narratives that move beyond the individual self to express the collective self

COURSE 20: ARB3A09: READING ARABIC PROSE AND POETRY



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Table 4: Courses Outcomes of B.Sc Mathematics

C01	To make opportunities before the learner to appreciate modern and contemporary poetry.
C02	To develop in the learner the capacity to grasp the ideas conveyed by the poets of modern age
C03	Associate human emotions through literature to promote creative, critical uses of language and gain proficiency in Listening, Speaking, Reading, Writing skills with the fundamental knowledge of grammar

COURSE 21: HIN3A08(1): POETRY IN HINDI

C01	Understand the common techniques underlying free verse and traditional forms of poetry.
C02	Identify personal experiences that can be used when writing poetry.
C03	Understand the basic terminology and practical elements of poetry.

COURSE 22: MAL3A09(1): MALAYALA SAHITHYAM - 3

C01	To write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.
C02	To acquire the correct sense of format, syntax, grammar, punctuation and spelling.
C03	To acquire concepts, principles and vocabulary of reasoning and argumentation and use analysis, synthesis, and evaluations.
C04	To gain an understanding of discourse conventions ranging from structure and paragraphing to tone and mechanics.

COURSE 23: MTS3B03: CALCULUS OF SINGLE VARIABLE -2

C01	Understand functions like natural logarithm exponential functions
C02	Able to model problems like spreading of diseases, radio activity etc.
C03	Understand Improper integrals and their convergence and tests
C04	Understand parametrization



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Table 4: Courses Outcomes of B.Sc Mathematics

COURSE 24: STA3C03 – PROBABILITY DISTRIBUTIONS AND SAMPLING THEORY

C01	Understanding on various probability distribution
C02	Understand the application of discrete distribution
C03	Understand the application of continuous distribution
C04	Equip the students with the theory essential for estimation of unknown parameters

COURSE 25: CSC3C03 – PROBLEM SOLVING USING C

C01	Understand features of the C Language
C02	Apply C language features to problem solving
C03	Develop solutions to real-life problems using C
C04	Develop solutions to real-life problems using files

COURSE 26: ENG4A06: SPECTRUM: LITERATURE AND CONTEMPORARY ISSUES

C01	To make the learners aware of the humanist dimensions of literature and media in the contemporary world
C02	To enable the learners to understand concepts like globalization, commercialization and intellectual property rights through new literatures.
C03	To inculcate the spirit of universal brotherhood by presenting critique of race, xenophobia, war and national borders.
C04	To disseminate knowledge about the rights of minorities such as children, animals and the disabled and thus create a positive change in the societal perception of them.

COURSE 27: ARB4A10: ARABIC LITERATURE AND CULTURE

C01	To make opportunities before the learner to acquaint with classical Literature having ethical association.
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Table 4: Courses Outcomes of B.Sc Mathematics

C02	To introduce to the students the Arabic literary contributions of different Indian writers
C03	Understanding the contribution of Indians to Arabic language and literature and drawing inspirations from it.
C04	Understanding Arab literary history of the classical and modern period

COURSE 28: HIN4A10 (1): NOVEL AND SHORT STORIES

C01	Understand the common techniques underlying free verse and traditional forms of poetry.
C02	Identify personal experiences that can be used when writing poetry.
C03	Understand the basic terminology and practical elements of poetry.

COURSE 29: MAL3A09(1): MALAYALA SAHITHYAM - 4

C01	To write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.
C02	To acquire the correct sense of format, syntax, grammar, punctuation and spelling.
C03	To acquire concepts, principles and vocabulary of reasoning and argumentation and use analysis, synthesis, and evaluations.
C04	To gain an understanding of discourse conventions ranging from structure and paragraphing to tone and mechanics.

COURSE 30: MTS4B04: LINEAR ALGEBRA

C01	Understand the concept system of equations and solutions
C02	Understand Idea of vector spaces
C03	Understand the relationship among the system of equations and the subspaces of the coefficient matrix
C04	Application of matrix transformations in the field of computer graphics



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Table 4: Courses Outcomes of B.Sc Mathematics

COURSE 31: STA4C04 – STATISTICAL INFERENCE AND QUALITY CONTROL

C01	To introduce the concepts of hypothesis testing.
C02	Identify a suitable test of significance to test a given hypothesis.
C03	Provide an insight into quality assessment techniques.
C04	Discuss the analysis of data relating to agriculture biological sciences and industry.

COURSE 32: CSC4C04 – DATA STRUCTURE USING C

C01	Analyse the complexity of algorithms
C02	Apply the linear data structures to real-life problems
C03	Apply the non-linear data structures to real-life problems
C04	Perform searching and sorting

COURSE 33: CSC4C05 - PROGRAMMING LAB: C AND DATA STRUCTURE

C01	Apply C programming knowledge to solve real-life problems
C02	Analyse algorithms to select efficient one
C03	Apply data structures to solve real-life problems
C04	Apply files to solve real-life problems

COURSE34: MTS5B05: ABSTRACT ALGEBRA

C01	Understand many theorems such as Galois theory
C02	Connects classical algebra and modern algebra



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Table 4: Courses Outcomes of B.Sc Mathematics

C03	Communicate and understand mathematical ideas such as group cyclic group
C04	Explores the fundamental results in the areas
COURSE 35: MTS5B06: BASIC ANALYSIS	
C01	Develop their ability analyse
C02	Deduce many properties in real number system
C03	Prepares them for further work in mathematical analysis
C04	Understand basic topological properties of real number system
COURSE 36: MTS5B07: NUMERICAL ANALYSIS	
C01	Understand methods for numerical solutions of equations
C02	Understand the concept of interpolation and its techniques
C03	Understand techniques for numerical differentiation and integration
C04	Understand the methods for numerical solutions of initial value problems
COURSE 37: MTS5B08: LINEAR PROGRAMMING	
C01	Able to solve transportation and assignment problems
C02	Understand duality theory
C03	Increases the skill in modelling
C04	Understand and analyse game theory
COURSE 38: MTS5B09: INTRODUCTION TO GEOMETRY AND THEORY OF EQUATIONS	



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Table 4: Courses Outcomes of B.Sc Mathematics

C01	Understand and analyse few geometries
C02	Learn to solve polynomial equations upto order 4
C03	Recognise and classify conics
C04	Understand affine transformation and visualises
COURSE 39: MTS6B10: REAL ANALYSIS	
C01	Understand many theorems and notions such as improper integral convergence etc
C02	Learn to check the validity of mathematical statements
C03	Find a justification for change of variable formula
C04	Develop the notion of Riemann integrability
COURSE 40: MTS6B11: COMPLEX ANALYSIS	
C01	Understand analytic functions harmonic functions etc
C02	Apply Cauchy integrals formula for series expansion
C03	Evaluate complex integrals
C04	Application of residue theory
COURSE 41: MTS6B12: CALCULUS OF MULTI VARIABLE	
C01	Understand multivariable functions and their properties
C02	Understand the concepts partial derivative directional derivative
C03	Evaluation of line integrals and surface integrals



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Table 4: Courses Outcomes of B.Sc Mathematics

C04	Application of optimization techniques in real life situations
COURSE 42: MTS6B13: DIFFERENTIAL EQUATIONS	
C01	Understand the methods to solve different types of DEs
C02	Understand the concepts such as partial derivative directional derivative
C03	Acquire the knowledge of solving DEs using laplace method and evaluate
C04	Understand to solve partial differential equations
COURSE 43: MTS6B14 (E01): GRAPH THEORY	
C01	Understand graph subgraph path etc
C02	Identify different graphs and their specialities
COURSE 44: MTS6 B14 (E02): TOPOLOGY OF METRIC SPACES	
C01	Understand graph subgraph path etc
C02	Identify different graphs and their specialities
COURSE 45: MTS6 B14 (E03): MATHEMATICAL PROGRAMMING WITH PYTHON AND LATEX S	
C01	Understand graph subgraph path etc
C02	Identify different graphs and their specialities



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