



DEPARTMENT OF MATHEMATICS

MUHAMMED ABDURAHIMAN MEMORIAL ORPHANAGE (MAMO) COLLEGE

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

CURRICULUM FOR CERTIFICATE COURSE

CERMA001: BASIC STATISTICS

OFFERED DURING THE
ACADEMIC YEAR 2016-17
[APPROVED BY ACADEMIC COMMITTEE, MAMO COLLEGE]



MANASSERY, MUKKAM POST,
KOZHIKODE, KERALA, INDIA, 673 602.
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INSTITUTIONAL VISION, MISSION & OBJECTIVES 01



VISION: Build Scientifically Oriented, Intellectually Accomplished, Morally Upright and Socially Committed youth who can play a constructive role in Nation Building.



MISSION: Intellectual, social and economic empowerment of the youth in general and women, minorities, orphans and the destitute in particular by providing quality, value-based higher-education.



OBJECTIVES: Pursuit of Excellence, Harnessing technology, Thrust on value-based education, Nurturing Excellence and Moulding the youth for Nation Building



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VISION, MISSION, OBJECTIVES & CORE VALUES OF THE DEPARTMENT **02**



VISION

VISION: Educating students to excel in all their endeavours for the betterment of the society and nation



MISSION

MISSION: Empowers students to fulfil their moral, professional, social and economic financial responsibilities



OBJECTIVES: (a) Develop a positive attitude towards Mathematics and to appreciate its practical applications in life, (b) Develop problem solving skills and the ability to use mathematics in everyday life, (c) Develop problem solving skills and the ability to use mathematics in everyday life and (d) Use mathematical language effectively and accurately.



VALUES

CORE VALUES: Practical Orientation, Intellectual Enlightenment, Social Commitment, Moral Uprightness, Ethical Self-Fashioning, Cultural Enrichment, International Outlook, Aesthetic Sensibility, Vocational Excellence and Psychological Stability.



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B.Sc. MATHEMATICS: PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) 03

After 4 to 5 years of graduation, the career and professional accomplishments attained by the B.Sc Mathematics Graduates would reflect that the programme really prepared the graduates to deal with the real world, where they could apply and use the skills and knowledge they have learned to good use

Specifically, the graduate would be able to:



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



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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.



PEO4: Have continuous learning attitude to adopt new skills and techniques to overcome the problems related with new technologies.



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B.Sc MATHEMATICS: PROGRAMME SPECIFIC OUTCOME (PSOs) **04**

On the successful completion of the B.Sc. Mathematics Programme, the graduates would be able to:



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.



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PSO4: Have necessary language skills and expertise in the field of research and developments through seminar and project.



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B.Sc MATHEMATICS: PROGRAMME OUTCOMES (POs) 05

On the successful completion of the B.Sc. Mathematics Programme, the graduates would be able to:



PO1: 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.



PO2: 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.



PO3: PRESENTATION AND INTERPRETATION OF DATA: Demonstrate the ability to manipulate and visualize data and to compute standard statistical summaries.



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PO4: 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.



PO5: MODERN TOOL USAGE: Learn, select, and apply appropriate methods and procedures, resources and computing tools with an understanding of the limitations.



PO6: 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.



PO7: 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.



PO8: INDIVIDUAL AND TEAM WORK: Work effectively as an individual, as a member or leader of various teams, and in multi-disciplinary settings.



PO9: DESIGN/DEVELOPMENT OF SOLUTIONS: Model the real-world problems in to mathematical equations and draw the inferences by finding appropriate solutions.



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PO10: LIFE-LONG LEARNING: Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematics.



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CERTIFICATE COURSE

CERMA001: BASIC STATISTICS 06

COURSE CURRICULUM

Course Name	Basic Statistics
Course Code	CERMA001
Year	2016-17
Course Designer	Ms. Jyothilakshmi M. P
Course Duration	30 Hrs
Course Schedule	June to September
Maximum Students Intake	60 Students



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1. COURSE LEVEL

Foundational, skill-oriented certificate programme.

2. PREREQUISITE

None.

3. COURSE INTAKE & ADMISSION

Maximum 60 students will be given admission to the course based on First-Come-First-Serve basis. All the students of the MAMO College are eligible for free enrolment for the course. The enrolment notification will be issued for the course well in advance of the commencement of the course.

4. COURSE COORDINATOR

Ms. Jyothilakshmi M. P, Department of Statistics

5. COURSE PREAMBLE

Application of Statistical tools and techniques in defining and developing problems

6. DURATION

Total Duration: 30 Hrs. [Contact Hrs. 15 Hrs., Course Woks: 8 Hrs and Assessment Works: 7 Hrs]

7. CURRICULUM FOCUS

Enhance the employability of the learners through curriculum enrichment for additional skill development.



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8. COURSE OBJECTIVES

Learners are exposed to

- (a) Develop handling applications
- (b) Acquire problem-solving skills that enhance the employability of the learners.

9. SKILL EXPECTED

On the successful completion of the course, learners will be able to:

- (a) Develop problem analysing and problem solving skills
- (b) Learn the basic concept of Statistics

10. COURSE OUTCOMES

Upon the successful completion of the course, learners will be able to:

CO No	Course Outcome(CO)	Skill/Knowledge Attainment Level Based on Revised Bloom's Taxonomy
CO1	Describe, compare, explain the different types of variables.	Understand
CO2	Frequency and cumulative frequency distribution	Apply
CO3	Graphs and diagrams	Analyse
CO4	Positional averages and application	Create



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11. MAPPING OF COs WITH PSO_s AND PO_s

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4
CO1	1	1	2	1	1	1	1	1	2	3	1	1	2	1
CO2	1	1	2	1	1	1	1	1	2	3	1	1	2	1
CO3	1	1	2	1	1	1	1	1	2	3	1	1	2	1
CO4	1	1	2	1	1	1	1	1	2	3	1	1	2	1
AVG	1	1	2	1	1	1	1	1	2	3	1	1	2	1

12. MODULE-WISE COURSE CONTENTS

MODULE 1: BASIC CONCEPTS

MODULE DURATION: 10 Hrs. [Contact Hrs. 5 Hrs., Course Woks: 3 and Assessment Works: 2 Hrs]

MODULE CONTENT: Different types of variables, Frequency and Cumulative Frequency Distribution, Graphs and diagrams.

MODULE OUTCOME: On successful completion of the module, learners can understand the concept of frequency distribution

MODULE 2: INSTRUMENTATION TECHNIQUES II

MODULE DURATION: 20 Hrs. [Contact Hrs. 10 Hrs., Course Woks: 6 and Assessment Works: 4]

MODULE CONTENT: Measures of central tendency, Measures of dispersion, and its application



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MODULE OUTCOME: On successful completion of the module, learners will be able to handle statistical problems in competitive exams.

REFERENCES:

1. Gupta, S. C & Kapoor, V. K, *Fundamentals of Mathematical statistics*, Sultan Chand & Sons, 2014.
2. Goon, A. M, Guptha, M.K & Dasgupta B, *Fundamentals of Mathematical statistics Vol. I and Vol. II*, World Press, 2014.

ADDITIONAL REFERENCES & STUDY MATERIALS:

3. Mukhopadhyay, P, *Applied Statistics*, Books & Allied Ltd.

13. DELIVERY MODE

The course employs multi-mode delivery mechanism including contact lecture, and offline course works.

14. DELIVERY SCHEDULE

June to September.

15. DETAILED COURSE DELIVERY PLAN

Hour	Delivery Mode and Activity	Topics to be Covered
1	Contact Hour - 1: Classroom Discussion	Introducing the Course
2	Contact Hour - 2: Classroom Demonstration	Basic Concepts of Mathematics
3	Contact Hour - 3: Classroom Demonstration	Variables



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Hour	Delivery Mode and Activity	Topics to be Covered
4	Contact Hour - 4: Classroom Demonstration	Frequency Distribution
5	Contact Hour - 5: Classroom Demonstration	Cumulative Frequency
6	Contact Hour - 6: Classroom Demonstration	Graphs
7	Contact Hour - 7: Classroom Demonstration	Diagrams
8	Contact Hour - 8: Classroom Demonstration	Problems based on covered topics
9	Course Work – 1: Course Assignment	Course Assignment to solve problems
10	Course Work – 2: Course Assignment	Course Assignment to solve problems
11	Assessment Hour - 1	Assignment to draw graphs and diagrams
12	Course Work – 3: Course Assignment	Course Assignment to solve problems
13	Assessment Hour - 2	Assignment to solve application problems.
14	Contact Hour - 9: Classroom Demonstration	Mean
15	Contact Hour - 10: Classroom Demonstration	Median
16	Contact Hour - 11: Classroom Demonstration	Mode
17	Contact Hour - 12: Classroom Demonstration	Problems based on covered topics



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Hour	Delivery Mode and Activity	Topics to be Covered
18	Contact Hour - 13: Classroom Demonstration	Range and Quartile deviation
19	Contact Hour - 14: Classroom Demonstration	Problems based on covered topics
20	Contact Hour - 15: Classroom Demonstration	Mean Deviation
21	Contact Hour - 16: Classroom Demonstration	Problems based on MD
22	Contact Hour - 17: Classroom Demonstration	Standard Deviation
23	Contact Hour - 17: Classroom Demonstration	Problems based on SD
24	Assessment Hour - 3	Assignment to solve application problems.
25	Assessment Hour - 4	Assignment to solve application problems.
26	Course Work – 4: Course Assignment	Course Assignment to solve problems
27	Course Work – 5: Course Assignment	Course Assignment to solve problems
28	Assessment Hour - 5	Course End Assessment
29	Assessment Hour - 6	Course End Assessment
30	Contact Hour - 1: Classroom Discussion	Introducing the Course



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16. ASSESSMENT COMPONENTS

Total Marks: 100

CLASSROOM AND GROUP PARTICIPATION: 20 Marks. This component aims at testing the course content understanding and the reflection skills and their attainment levels.

COURSE WORK: 30 Marks. This component aims at testing the skill attainment levels of the learners in analysing and implementing the real-world problem.

MID-COURSE ASSIGNMENT: 20 Marks. This component aims at testing the module-wise attainment levels of the course objectives and course outcome and module outcomes.

END-COURSE ASSESSMENT: 30 Marks. This component aims at testing overall attainment levels of the course with respect to course objectives, course outcome and module outcomes.

17. COURSE EVALUATION & GRADING

The course evaluation is done/coordinated entirely by the course coordinator. The following 10-point Indirect Grading System is used for awarding grades to students:

Percentage of Mark	Letter Grade	Interpretation	Class
95 and above	O	Outstanding	First Class with Distinction
85 to below 95	A+	Excellent	First Class with Distinction
75 to below 85	A	Very good	First Class with Distinction
65 to below 75	B+	Good	First Class
55 to below 65	B	Satisfactory	First Class



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Percentage of Mark	Letter Grade	Interpretation	Class
45 to below 55	C	Average	Second Class
35 to below 45	P	Pass	Third Class
Below 35	F	Failure	Fail
Incomplete	I	Incomplete	Fail
Absent	Ab	Absent	Fail

The grade is awarded by the course-coordinator by considering the overall performance of the learner in all the assessment component of the course.

18. GRIEVANCE REDRESSAL

The grievances, if any, can be submitted to the Head of the Department for its redressal. Those grievances that cannot be redressed by HoD can be forwarded to Academic Council of the College for final decision on the matter.

19. ISSUANCE OF CERTIFICATES

The Course Completion Certificate will be issued to all the successful candidates showing the Total Marks and Grade Obtained.



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