



DEPARTMENT OF ECONOMICS
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
CEREC003: RESEARCH METHODS &
TECHNIQUES IN ECONOMICS

OFFERED DURING THE
ACADEMIC YEAR 2018-19
[APPROVED BY ACADEMIC COMMITTEE, MAMO COLLEGE]



MANASSERY, MUKKAM POST,
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INSTITUTIONAL VISION, MISSION & OBJECTIVES 01



VISION

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



MISSION

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

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: Equip students to realize their full potential and shape them to address the emerging global challenges to deal with economic, social and business realities.



MISSION

MISSION: Imparting the highest quality instruction to undergraduate students to train them in the methods and ideas of modern theoretical and applied economics.



OBJECTIVES: (a) Focus on building up excellence and professionalism. (b) Thrust on attaining human values, ethical, communication, and collaboration skills to have successful careers through innovative and modern curriculum. (c) Special attention to provide career-oriented quality training to impart skill requirements of the service sector. (d) Value-based training for maintaining ethical conscience. (e) Inculcate professionalism and global outlook through parallel soft-skill and value-added courses. (e) Inculcate professionalism and global outlook through parallel soft-skill and value-added courses.



VALUES

CORE VALUES: Mutual trust and interdependence, Belief in respecting the integrity of the Nation and self-esteem, Ethical Conscience, Service Mindedness, Professionalism and Global Outlook.



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B.A ECONOMICS: PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) 03

After 3 years of graduation, the career and professional accomplishments attained by the B.A Economics 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: Pursue any of the following three alternatives: (i) immediately take up a career in any area of financial sector, banking sector and cost accounting and work productively as a successful professionals in diverse career paths including supportive and leadership roles on multidisciplinary teams, (ii) broaden the scope of the career path by pursuing higher studies and research in the field of Economics and (iii) go for taking up the challenge and spearheads start-ups by positively exploiting the diverse potentials and resources of the economy..



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PEO2: Graduates will communicate effectively, recognize and incorporate societal needs and constraints in their professional endeavours, and practise their profession with high regard to legal and ethical responsibilities.



PEO3: Be original, creative, innovative and systematic in their all endeavours, including individual, collaborative and entrepreneurial ventures with meticulous strategic thinking, planning and execution.



PEO4: Have sufficient breadth of understanding to enable continued professional development and lifelong learning throughout their career.



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B.A ECONOMICS: PROGRAMME SPECIFIC OUTCOME (PSOs) 04

On successful completion of a Bachelor Degree in Computer Science, the graduates would be able to:



PSO1: THEORETICAL SOUNDNESS IN SOCIAL SCIENCE: Students at the time of graduation will be able to understand the behavioural patterns of various economic agents, advance theoretical issues and their applications. It also helps the students to critically analyze the problems and to provide solutions by using statistical tools and theories.



PSO2: DEVELOP PRACTICAL SKILLS: Students at the time of graduation will be able to pinpoint and understand the past, present economic conditions of the country. They will also be able to forecast the future course of changes and development through their knowledge of policies and programmes set by



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the governments and other development agencies. They are equipped with the techniques to find solution of the problems like mobilization of manpower and materials available in the country.



PSO3: CAREER OPTIONS: Students at the time of graduation will be able to apply their skills in various career fields and to engage as Economist, financial risk analyst, Accountant, Investment Analyst, Financial consultant, Data Analyst, and as Researcher in various economic and financial institutions at national and international level.



PSO4: USE OF MODELS IN ECONOMIC ANALYSIS: Students at the time of graduation will be able to apply appropriate model and tests of significance to find solutions for complex problems in Economics at micro and macro level.



PSO5: RESEARCH CAPABILITY: Students at the time of graduation will be able to apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.



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B.A ECONOMICS: PROGRAMME OUTCOMES (POs) 05

The students graduating from B.A Economics Programme should be able to:



PO1: SCIENTIFIC KNOWLEDGE IN ECONOMIC ANALYSIS: Apply knowledge of Economics and Statistics to provide solutions to complex economic and financial problems.



PO2: PROBLEM ANALYSIS: Identify, formulate, review research literature, and analyze complex real-life problems reaching substantiated conclusions using the tools of mathematics, statistics and data analysis.



PO3: SOLUTION TO REAL-LIFE PROBLEMS WITH SYSTEMATIC APPROACH: Design solutions for complex real-life problems that meet the specified needs with appropriate consideration for the public health and safety, and the economic, societal, and environmental considerations.



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PO4: CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.



PO5: CREATION AND USAGE OF VARIOUS TOOLS: Create, select, and apply appropriate techniques, resources, and modern computing and data analysing tools that helps in predicting the complex economic activities with an understanding of the limitations.



PO6: PROFESSIONAL APPROACH TO SOCIAL ASPECTS: Apply reasoning informed by the contextual knowledge to assess economic, societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.



PO7: ENVIRONMENT AND SUSTAINABILITY: Understand the impact of use of natural resources in economic and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



PO8: ETHICS: Apply ethical principles and commit to professional ethics and responsibilities and norms of the economy and society.



PO9: INDIVIDUAL AND TEAM WORK: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



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PO10: COMMUNICATION: Communicate effectively within the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



PO11: PROJECT MANAGEMENT AND FINANCE: Demonstrate knowledge and understanding of the economic principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



PO12: LIFE-LONG LEARNING: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of changes in technology and policy.



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CERTIFICATE COURSE

CEREC003: RESEARCH METHODS & TECHNIQUES IN ECONOMICS 06

COURSE CURRICULUM

Course Name	Research Methods & Techniques in Economics
Course Code	CEREC003
Year	2018-19
Course Designer	Mr. Muhammed Jaffer V
Course Duration	30 Hrs
Course Schedule	November to February
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

Mr. Muhammed Jaffer.V, Department of Economics

5. COURSE PREAMBLE

This course aims to impart knowledge in research techniques for conducting studies and research in Economics and other social sciences. It enables the students to conduct research independently and will help them in their higher studies.

6. DURATION

Total Duration: 30 Hrs. [Contact Hrs. 16 Hrs., Course Woks: 7 and Assessment Works: 7]



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7. CURRICULUM FOCUS

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

8. COURSE OBJECTIVES

Learners are expected to

- (a) Able to familiarize the techniques of social science research
- (b) Enable them to interpret data
- (c) Help the students to write research papers and articles

9. SKILL EXPECTED

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

- (a) Conduct research independently
- (b) Acquiring skills to collect, interpret data
- (c) Able to analyses data using computer software

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	Explain the various methods of conducting a study	Understand



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CO No	Course Outcome(CO)	Skill/Knowledge Attainment Level Based on Revised Bloom's Taxonomy
CO2	Implement appropriate statistical tools for analyzing data	Apply
CO3	Compare different types of data collection methods for collecting data	Analyze
CO4	Design appropriate research design for a proposed study	Evaluate

11. MAPPING OF COs WITH PSO_s AND PO_s

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1
CO2	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1
CO3	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1
CO4	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1
CO5	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1
AVG	1	1	2	1	1	1	1	1	2	3	1	2	1	1	2	1	1

12. MODULE-WISE COURSE CONTENTS

MODULE 1: FOUNDATIONS OF RESEARCH

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



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MODULE CONTENT:

Problem Identification & Formulation - Qualitative and Quantitative Research- Research Design: Concept and Importance in Research – Features of a good research design- Concepts of Statistical Population, Sample, Sampling Frame, Sampling Error, Sample Size, Non Response. Characteristics of a good sample. Sampling techniques -Determining size of the sample – Practical considerations in sampling and sample size.

MODULE OUTCOME: On successful completion of the module learners will familiarize various concepts related to research

MODULE 2: SAMPLING TECHNIQUES

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

MODULE CONTENT: .Research Design: Concept and Importance in Research, Features of a good research design, Concepts of Statistical Population, Sample, Characteristics of a good sample, Sampling techniques - Determining size of the sample, List out the research problems in Economics, Prepare a Questionnaire related to the research Topic, List the Differences between Primary and Secondary Data, Various types of research, Various types of Sampling, Statistical Population, Qualities of a good Research

MODULE OUTCOME: On successful completion of the module learners will be able to understand, differentiate various techniques of sampling and able to the appropriate one suited the research problem.

MODULE 3: DATA ANALYSIS

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

MODULE CONTENT: Univariate analysis (frequency tables, bar charts, pie charts, percentages), Bivariate analysis – statistical tools for data analysis - Chi-square test including testing hypothesis Interpretation of Data and Paper



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Writing. Layout of a Research Paper, Ethical issues related to publishing, Plagiarism and Self-Plagiarism. Paper formatting in MS Word

MODULE OUTCOME: On successful completion of the module learners will be able to use various data analysis tools for analysis and interpretation of the results.

REFERENCES

1. Best and Kahn, *Research Methodology*, PHI Limited.
2. Kothari, C.R., *Research Methodology (Methods and Techniques)*, New Age Publisher.
3. Barker Bausell, Yi-Fang L., *Power Analysis for Experimental Research: A Practical Guide for the Biological, Medical and social Sciences*, Cambridge University Press.
4. Robert O., Kuehl Brooks, *Design of Experience: Statistical Principles of Research Design and Analysis*.

13. DELIVERY MODE

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

14. DELIVERY SCHEDULE

November to February.

15. DETAILED COURSE DELIVERY PLAN

Hour	Delivery Mode and Activity	Topics to be Covered
1	Contact Hour - 1: Classroom Discussion	Introducing the Course.



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Hour	Delivery Mode and Activity	Topics to be Covered
2	Contact Hour - 2: Classroom Discussion	Problem Identification & Problem Formulation
3	Contact Hour - 3: Classroom Discussion	Qualitative and Quantitative Research
4	Contact Hour - 4: Classroom Discussion	.Research Design: Concept and Importance in Research
5	Contact Hour - 5: Classroom Discussion	.Features of a good research design
6	Contact Hour - 6: Classroom Discussion	Concepts of Statistical Population, Sample,
7	Contact Hour - 7: Classroom Discussion	Characteristics of a good sample
8	Contact Hour - 8: Classroom Discussion	Sampling techniques -Determining size of the sample
9	Course Work – 1: Course Assignment	List out the research problems in Economics
10	Course Work – 2: Course Assignment	Prepare a Questionnaire related to the research Topic
11	Course Work – 3: Course Assignment	List the Differences between Primary and Secondary Data
12	Assessment Hour - 1	Various types of research
13	Assessment Hour - 2	Various types of Sampling
14	Assessment Hour - 3	Statistical Population
15	Assessment Hour - 4	Qualities of a good Research
16	Contact Hour - 9: Classroom Discussion	Univariate analysis (frequency tables, bar charts, pie charts, percentages),
17	Contact Hour - 10: Classroom Discussion	Bivariate analysis



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Hour	Delivery Mode and Activity	Topics to be Covered
18	Contact Hour - 11: Classroom Discussion	Statistical tools for data analysis
19	Contact Hour - 12: Classroom Discussion	Chi-square test
20	Contact Hour - 13: Classroom Discussion	Interpretation of Data
21	Contact Hour - 14: Classroom Discussion	Layout of a Research Paper,
22	Contact Hour - 15: Classroom Discussion	Ethical issues related to publishing,
23	Contact Hour - 16: Classroom Discussion	Paper formatting in MS Word
24	Course Work – 4: Course Assignment	Preparation of Frequency Distribution
25	Course Work – 5: Course Assignment	Preparing various charts and Diagrams
26	Course Work – 6: Course Assignment	Problem solving with central measures of tendency
27	Course Work – 7: Course Assignment	Interpretation of the results
28	Assessment Hour - 5	Problem solving with various statistical measures
29	Assessment Hour - 6	Course End Assessment
30	Assessment Hour - 7	Course End Assessment

16. ASSESSMENT COMPONENTS

Total Marks: 100



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Principal: 0495-2295121

COORDINATOR
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DEPARTMENT OF ECONOMICS

CURRICULUM FOR CERTIFICATE COURSE - CEREC003

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
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



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Percentage of Mark	Letter Grade	Interpretation	Class
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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