



Course Syllabus  
Gyanmanjari Institute of Arts  
Semester-3 (M.A)

**Subject:** Research Methodology -MATEC 12515

**Type of course:** Major (Core)

**Prerequisite:** Students should have a basic understanding of research concepts, data collection methods, and statistical analysis. They should also be familiar with sampling techniques, questionnaire design, and the ethical considerations in research. Critical thinking skills are essential for evaluating research designs and formulating research problems and hypotheses.

**Rationale:** The syllabus provides a comprehensive overview of research, covering its concepts, methods, and design. It includes the formulation of research problems and hypotheses, various sampling methods, and techniques for primary and secondary data collection. Emphasis is placed on constructing effective questionnaires and understanding the importance and limitations of different research approaches. This prepares students for rigorous and ethical research practices.

**Teaching and Examination Scheme:**

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P		Theory Marks		Practical Marks		CA	
				ESE	MSE	V	P	ALA	
4	0	0	4	60	30	10	00	50	150

*Legends: CI-Classroom Instructions; T – Tutorial; P - Practical; C – Credit; SEE - Semester End Evaluation; MSE- Mid Semester Examination; V – Viva; CCE-Continuous and Comprehensive Evaluation; ALA- Active Learning Activities.*





**Course Content:**

Sr. No	Course content	Hrs.	Marks /Weight
1	<ul style="list-style-type: none"> <li>• Research – Concept, Characteristics, Importance &amp; Limitations.</li> <li>• Research Methods – Survey Method, Experimental Method &amp; other Methods.</li> <li>• Research Design -Definition, Characteristics of a good Research Design, Types of Research Design</li> </ul>	15	25
2	<ul style="list-style-type: none"> <li>• Formulation of Research Problem &amp; Hypothesis: Research Problem, Conditions, Sources &amp; Criteria,</li> <li>• Hypothesis – Importance, types, Difficulties in formulation.</li> </ul>	15	25
3	<ul style="list-style-type: none"> <li>• Sampling Methods: Types of Sampling Methods,</li> <li>• Advantages &amp; Disadvantages of Census Method.</li> </ul>	15	25
4	<ul style="list-style-type: none"> <li>• Collection of Data: Primary &amp; Secondary Data,</li> <li>• Methods of Primary Data Collection,</li> <li>• Questionnaire –Construction &amp; Design, Types of Questionnaires,</li> <li>• Sources of Secondary Data, Precautions in use of Secondary Data.</li> </ul>	15	25

**Continuous Assessment:**

Sr. No	Active Learning Activities	Marks
1	<b>Method Comparison Chart:</b> Students will create a comparison chart outlining the survey method, experimental method, and other research methods, including definitions, steps, advantages, and disadvantages, and upload their charts as a PPT or PDF on the GMIU Web portal.	10
2	<b>Case Study Analysis:</b> Students will analyze provided case studies of existing research projects, evaluating the research design, methods, and overall approach to identify strengths and weaknesses, and upload their reports on the GMIU Web portal.	10
3	<b>Designing a Survey:</b> Students will select a research topic, define objectives, design a survey with questions, complete the surveys in small groups, and create a report on their	10



	findings, which they will upload to the GMIU Web portal.	
4	<b>Questionnaire Making:</b> Each student will select a research topic, create a questionnaire with at least 10 questions (both open-ended and closed-ended), collect and analyze responses to identify issues, write a brief report on the questionnaire's effectiveness and adjustments made, and upload it to the GMIU Web portal.	10
5	<b>Evaluating Secondary Data Sources:</b> Students will find sources of secondary data on a specific research topic, evaluate them for credibility, relevance, accuracy, and timeliness, identify potential biases or limitations, and upload their findings to the GMIU Web portal.	10
<b>Total</b>		50

**Suggested Specification table with Marks (Theory):60**

Distribution of Theory Marks (Revised Bloom’s Taxonomy)						
Level	Remembrance (R)	Understanding (U)	Application (A)	Analyze (N)	Evaluate (E)	Create (C)
Weightage	20%	40%	40%	00	00	00

**Note:** This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

**Course Outcome:**

After learning the course, the students should be able to:	
CO1	Define research, including its concept, characteristics, importance, and limitations, and describe various research methods and designs.
CO2	Formulate research problems and hypotheses, and understand their importance, types, and difficulties in formulation.
CO3	Distinguish between primary and secondary data, employ methods of primary data collection, design effective questionnaires, and evaluate data sources for credibility and relevance.
CO4	Apply different sampling methods, assess the advantages and disadvantages of the census method, and design research projects using appropriate research designs and methods.





**Instructional Method:**

The course delivery method will depend upon the requirement of content and the needs of students. The teacher, in addition to conventional teaching methods by black board, may also use any tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in the laboratory.

**References:**

- [1]. Bailey, Kenneth D., (1982), Methods in Social Research, New York: MacMillan Publishing Co.
- [2]. Festinger, Leon & Katz Daniel: Research Methods in the Behavioural Sciences, NewDelhi.
- [3]. Groves, R. M., Fowler, F. J., Couper, M. P., Lepkowski, J. M., Singer, E., & Tourangeau, R. (2004). Survey methodology that works. Hoboken, NJ: Wiley.
- [4]. Henry, G. T. (1990). Practical sampling. Thousand Oaks, CA: Sage
- [5]. Kothari, C.R.(1985), Research Methodology-Methods and Techniques, New Delhi: WishwaPrakashan
- [6]. Levin, Jack, (1973), Elementary Statistics in Social Research, New York, Harper and Row Publishers.
- [7]. Nachmias David & Nachmias Chava, (1981), Research Methods in the Social Sciences, New York, St.Martin's Press.
- [8]. Panneerselvam, R., (2004), Research Methodology, Prentice Hall of India, New Delhi,
- [9]. Pauline Vyoung: Scientific Social Surveys and Research.

