



**MGM INSTITUTE OF HEALTH SCIENCES,  
KAMOTHE, NAVI MUMBAI**  
(Deemed to be University)  
Grade 'A' Accredited by NAAC

**CONTENT OUTLINE**

Unit	Hours		Course Content
	Theory	Practicals	
I	10		<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Methods of acquiring knowledge – problem solving and</li> <li>• Scientific method.</li> <li>• Research – Definition, Operation and Aims of scientific research, characteristics, purposes, kinds of Research</li> <li>• Inductive and deductive reasoning</li> <li>• Historical Evolution of research in nursing</li> <li>• Basic research terms</li> <li>• Scope of nursing research: areas, problems in nursing, role of research in nursing</li> <li>• health and social research</li> <li>• Concept of evidence based practice</li> <li>• <u>Ethics in research</u></li> <li>• Research process, Significant criteria of good research</li> </ul>
II	5	5	<p><b>Review of Literature:-</b></p> <ul style="list-style-type: none"> <li>• Importance, purpose, sources, criteria for selection of resources and step in reviewing literature.</li> </ul>
III	12		<p><b>Research Approach and design</b></p> <ul style="list-style-type: none"> <li>• Importance, characteristics of good research design</li> <li>• Threats to internal and external validity.</li> <li><b>Type:</b> Qualitative and Quantitative Research</li> <li>• Observational studies like descriptive, explanatory and exploratory.</li> <li>• Experimental Studies: pretest design, post test design, follow up or longitudinal, cohort studies, case control studies, cross sectional studies, interventional studies, panel studies, mixed method.</li> <li>• Qualitative: Phenomenology, grounded theory, Ethnography</li> </ul>
IV	10	5	<p><b>Research Problem:</b></p> <ul style="list-style-type: none"> <li>• Identification of research problem</li> <li>• Formulation of problem statement and research objectives</li> <li>• Definition of terms: Variables, setting, population</li> <li>• Assumptions and delimitations</li> <li>• Identification of variables</li> <li>• Hypothesis – definition, formulation and types</li> </ul>





**MGM INSTITUTE OF HEALTH SCIENCES,  
KAMOTHE, NAVI MUMBAI**

(Deemed to be University)

Grade 'A' Accredited by NAAC

Unit	Hours		Course Content
	Theory	Practicals	
V	5	5	<p><b>Development theoretical/conceptual framework</b></p> <ul style="list-style-type: none"> <li>Theories: Nature, characteristics, Purpose and uses</li> <li>Using, testing and developing conceptual framework,</li> <li>Models and theories.</li> <li>Importance of theory application</li> </ul>
VI	6		<p><b>Sampling</b></p> <ul style="list-style-type: none"> <li>Definition of terms: Population, sample and Sample size, sampling criteria</li> <li>Need and importance of sampling, central limit theorem</li> <li>Sampling theory, concept of standard error,</li> <li>Factors influencing sampling</li> <li>Sampling techniques, census and sampling survey.</li> <li>Implication of sampling design, characteristics of a good sampling design.</li> <li>Types: probability and non probability.</li> <li>Estimation of population mean, population proportion, sample size determination through the approach based on precision rate and confidence level.</li> <li>Problems of sampling.</li> </ul>
VII	20	30 15 15	<p><b>Tools and methods of Data collection</b></p> <ul style="list-style-type: none"> <li>Concepts of data collection, types of data</li> <li>Data sources, methods/techniques quantitative and Qualitative.</li> <li>Tools for data collection – types, characteristics and their development</li> <li>Test of sound measurement: Validity and reliability of tools</li> <li>Possible source of error in measurement</li> <li>Procedure for data collection</li> </ul>
VIII	5		<p><b>Implementing research plan</b></p> <ul style="list-style-type: none"> <li>Pilot study, review research plan (design), planning for data collection, administration of tool/interventions, collection of data</li> </ul>
IX	10	10	<p><b>Analysis and interpretation of data</b></p> <ul style="list-style-type: none"> <li>Plan for data analysis: quantitative and qualitative</li> <li>Preparing data for computer analysis and presentation.</li> <li>Statistical analysis</li> <li>Interpretation of data, techniques of interpretation</li> <li>Precaution in interpretation</li> <li>Conclusion and generalizations</li> <li>Summary and discussion</li> </ul>





**MGM INSTITUTE OF HEALTH SCIENCES,  
KAMOTHE, NAVI MUMBAI**

(Deemed to be University)

Grade 'A' Accredited by NAAC

Unit	Hours		Course Content
	Theory	Practicals	
X	10		<b>Reporting and utilizing research</b> <ul style="list-style-type: none"><li>• Communication of research results; oral and written</li><li>• Writing research report purposes, methods and style- Vancouver, American Psychological Association(APA),Campbell etc</li><li>• Writing scientific articles for publication: layout of report and significance of report writing</li></ul>
XI	3	8	<b>Critical analysis of research reports and articles</b>
XII	4	7	<b>Development and presenting a research proposal</b>

**ACTIVITIES:-**

- Annotated Bibliography of research and articles.
- Review of literature of selected topics and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Conducting validity and reliability tool
- Preparation of sample research tool
- Conducting validly and reliability of research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation for selected research studies.
- Written a scientific paper

**METHODS OF TEACHING**

- Lecture cum discussion
- Presentations
- Project
- Classroom exercises
- Journal Club

**METHODS OF EVALUATION**

- Tests (term)
- Assignments
- Research Critiques
- Presentations – Presentation of related researches
- Project Work