

Subject No.3
NURSING RESEARCH AND STATISTICS

Total: 250 hours

Theory: 150 Hours

Practical: 100 Hours

Nursing Research

Total: 150 hours

Theory: 100 Hours

Practical: 50 Hours

AIM:-

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management.

OBJECTIVES:-

At the end of the course, the students are able to:-

- Define basic research terms and concepts.
- Review literature utilizing various sources.
- Describe research methodology
- Develop research proposal.
- Conduct a research study.
- Analyze and interpret the research data.
- Communicate research findings.
- Utilize research findings.
- Critically evaluate nursing research studies.
- Write scientific paper for publication.

COURSE CONTENT:

Unit I -Introduction:

- Methods of acquiring knowledge – problem solving and scientific method. (1 hour)
- Research – definition, Characteristics purposes, kinds of research
- Historical Evolution of research in Nursing.
- Basic research terms.
- Scope of nursing research : Areas, problems in nursing, health and social research.
- Concept of evidence based practice.
- Ethics in research .
- Overview of Research process.
- Inductive and deductive reasoning.
- Role of research in nursing.
- Evidence Based Nursing Practice in research.

Unit II -Review of Literature:

- Importance, Purposes, sources,
- Criteria for selection of resources.
- Steps in reviewing literature.
- Sources of literature review.

Unit III -Research Approaches and designs:

- Type: Quantitative and Qualitative.
- Historical, survey and experimental
- Characteristics, type's advantages and disadvantages.
- Qualitative: Phenomenology grounded Theory, ethnography.
- Systematic review nursing of research
- Characteristics of good design.
- Research designs, its importance.
- Threats to internal and external validity.
- Quantitative versus Qualitative research designs.

Unit IV -Research problem:

- Identification of research problem
- Formulation of problem statement and research objectives
- Definition of terms.
- Assumptions and delimitations and Limitation
- Identification of variables

- Hypothesis – definition, formulation and types.
- Sources of research problem
- Factors Affecting the Identification of Research Problems.

Unit V -Developing theoretical / conceptual framework:

- Theories: Nature, Characteristics, Purpose and Uses
- Using, testing and developing Conceptual framework, models and theories.

Unit VI -Sampling:

- Population and sample
- Factors influencing sampling.
- Sampling techniques
- Sample size
- Probability and sampling Error
- Problems of sampling

Unit VII -Tools and methods of Data collection:

- Concepts of data collection.
- Data sources, methods/techniques -Quantitative and qualitative.
- Tools for data collection – types, characteristics and their development
- Validity and reliability of tools

- Procedure for data collection.

Unit VIII -Implementing research plan:

- Pilot study
- Review research plan design
- Planning for data collection
- Administration of tool/ Interventions .
- Collection of data.

Unit IX -Analysis and interpretation of data:

- Plan for data analysis: quantitative and Qualitative.
- Descriptive and Inferential Analysis.
- Preparing data for computer analysis and presentation.
- Statistical analysis.
- Interpretation of data.
- Conclusion and generalizations.
- Summary and discussion.

Unit X -Reporting and utilizing research findings:

- Communication of research results; oral and written.
- Writing research report purposes, methods and style-Vancouver, American Psychological Association (APA), Campbell etc
- Writing scientific article for publication: purposes & style

Unit XI -Writing scientific article for publication: purposes & style:

- Critical analysis of research reports and articles.
- Presenting and communicating critique.
- **Research Critique**

Unit XII -Developing and presenting a research proposal.

NURSING RESEARCH AND STATISTICS
Section 'A' (Paper I for 75+25 Scheme) - NURSING RESEARCH

| <i>Unit No. & total hours</i> | <i>Objectives</i> | <i>Contents with distributed hours</i> |
|-----------------------------------|--|---|
| I (10 hours) | <p>At the end of unit students are able to</p> <p>Knowledge: Understand the problem solving and scientific methods, inductive and deductive reasoning, research terminologies, evidence based practice and ethics in research.</p> <p>Skill: Apply evidence based practice in nursing research.</p> <p>Attitude: Incorporate with nursing research.</p> | <p>Introduction:</p> <ul style="list-style-type: none"> • Methods of acquiring knowledge – problem solving and scientific method. (1 hour) • Research – definition, Characteristics purposes, kinds of research .(1 hour) • Historical Evolution of research in Nursing.(1 hour) • Basic research terms. • Scope of nursing research : Areas, problems in nursing, health and social research.(1 hour) • Concept of evidence based practice.(1hour) • Ethics in research .(1 hour) • Overview of Research process. (1 hour) • Inductive and deductive reasoning.(1 hour) • Role of research in nursing.(1 hour) • Evidence Based Nursing Practice in research. ((1 hour)) |

| Course outcome | Program outcome | | | | | | |
|---|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Define research and explain its characteristics, purposes and | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| kinds of research | | | | | | | |
| CO-2- Interpret the methods of acquiring knowledge | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-3- Enumerate Historical Evolution of research in Nursing and basic research terms | 3 | 3 | 2 | 3 | 2 | 2 | 3 |
| CO-4- Describe scope of nursing research | 3 | 3 | 2 | 3 | 2 | 2 | 3 |
| CO-5- Enumerate concept of evidence based practice | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-6- Interpret ethics in nursing | 3 | 3 | 2 | 3 | 2 | 2 | 3 |
| CO-7- Explain the overview of research process | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| CO-8- Differentiate between inductive and deductive reasoning | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-9- Describe Evidence Based Nursing Practice in research | 3 | 3 | 2 | 3 | 2 | 2 | 3 |
| II (05 hours) | At the end of unit students are able to Knowledge: Describe the importance, purpose, scope, and sources of ROL. Skill: Apply steps in reviewing literature. Attitude: Recognize criteria for selection of resources. | | Review of Literature: <ul style="list-style-type: none"> • Importance, Purposes (1 hour) • Scope, sources (1 hour) • Criteria for selection of resources. (1 hour) • Steps in reviewing literature. (1 hour) • Sources of literature review. (1 hour) | | | | |
| Course outcome | Program outcome | | | | | | |
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Describe importance and purposes | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| of review of literature | | | | | | | |
| CO-2- Explain the scope and sources of review of literature | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-3- Enumerate the criteria for selection of resources | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-4- Interpret the steps in reviewing literature | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| <p>III (12 hours)</p> | <p>At the end of unit students are able to</p> <p>Knowledge: Define and describe qualitative and quantitative research.</p> <p>Skill: Select appropriate design for research work and critically evaluate research designs.</p> <p>Attitude: Identify characteristics of qualitative & quantitative research design.</p> | <p>Research Approaches and Design:</p> <ul style="list-style-type: none"> • Type: Quantitative and Qualitative.(1 hour) • Historical, survey and experimental (2 hours) • Characteristics, type’s advantages and disadvantages. (2 hours) • Qualitative: Phenomenology grounded Theory, ethnography. • Systematic review nursing of research(2 hours) • Characteristics of good design. (1 hour) • Research designs, its importance.(2 hours) • Threats to internal and external validity. (1 hour) • Quantitative versus Qualitative research designs. (1hour) |
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| Course outcome | Program outcome | | | | | | |
|--|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1-Describe types of quantitative and qualitative research design | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-2-Explain Historical, survey and experimental research design and its characteristics, advantages and disadvantages | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Explain Phenomenology grounded Theory, ethnography research design | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-4- Enumerate the characteristics of good research design | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5- Describe different | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| designs and its importance | | | | | | | |
| CO-6- Explain threat to internal and external validity | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-7- Differentiate between Quantitative and Qualitative research design | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| IV (10 hours) | <p>At the end of unit students are able to</p> <p>Knowledge: Identify and describe research problem, sources of research problem & define various terms</p> <p>Skill: Formulate research hypothesis.</p> <p>Attitude: Recognize assumptions delimitations and limitations.</p> | <p>Research Problem:</p> <ul style="list-style-type: none"> • Identification of research problem (2 hours) • Formulation of problem statement and research objectives • Hypothesis – definition, formulation and types. (2 hours) • Definition of terms.(1 hour) • Assumptions and delimitations and Limitation (3 hours) • Identification of variables (1 hour) • Sources of research problem. • Factors Affecting the Identification of Research Problems. (1 hour) |
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| Course outcome | Program outcome | | | | | | |
|----------------|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |

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| CO-1- Describe identification of research problems | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-2- Interpret the formulation of problem statement and research objectives | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Define and explain about formulation and types of hypothesis | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-4- Explain about variables | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5- Identify sources of research problems | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-6- Describe the factors affecting the identification of research problems | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| V | At the end of unit students are able to | Developing Theoretical/Conceptual framework: |
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| (05 hours) | <p>Knowledge: Understand and describe the nature, characteristics, purposes and uses of various nursing theories.</p> <p>Skill: Develop conceptual framework for their research work.</p> <p>Attitude: Identify and test various theories.</p> | <ul style="list-style-type: none"> • Theories: Nature, Characteristics, Purpose and Uses (2 hours) • Using, testing and developing Conceptual framework, models and theories.(3 hours) |
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| Course outcome | Program outcome | | | | | | |
|--|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Describe the nature, characteristics, purpose and uses of theories | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-2-Explain the usage, testing and development of conceptual framework, models and theories | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Describe about various | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| theories and models | | | | | | | |
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| VI (06 hours) | <p>At the end of unit students are able to</p> <p>Knowledge: Understand, Describe and define population, sample, sampling technique and sample size and factors influencing sampling, probability and sampling error.</p> <p>Skill: Select and use appropriate sampling technique.</p> <p>Attitude: Identify & select appropriate population, sample, sampling technique and sample size.</p> | <p>Sampling:</p> <ul style="list-style-type: none"> • Population and sample (1 hour) • Factors influencing sampling. (1 hour) • Sampling techniques (2 hour) • Sample size (1 hour) • Probability and sampling Error • Problems of sampling (1 hour) |
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| Course outcome | Program outcome | | | | | | |
|--|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1-Define population and sample | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-2- Interpret the factors influencing sampling | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Explain about types of | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| sampling techniques | | | | | | | |
| CO-4- Describe about sample size | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5 Explain about probability and sampling error | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-6- Explain about problems of sampling | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| VII (20 hours) | <p>At the end of unit students are able to</p> <p>Knowledge: Describe tools and methods of data collection.</p> <p>Skill: Calculate reliability of tools.</p> <p>Attitude: Formulate tools for data collection.</p> | <p>Tools and Method of Data Collection:</p> <ul style="list-style-type: none"> • Concepts of data collection.(2hours) • Data sources, methods/techniques -Quantitative and qualitative. (5 hours) • Tools for data collection – types, characteristics and their development(5 hours) • Validity and reliability of tools • Procedure for data collection. (8 hours) |
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| Course outcome | Program outcome | | | | | | |
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| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Interpret the concept of data collection | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| CO-2-Explain data sources, methods/techniques for Quantitative and qualitative research | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Explain about tools for data collection and its types, characteristics and their development | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-4-Describe Validity and reliability of tools | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5-Illustrate the procedure of data collection | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| VIII (05 hours) | <p>At the end of unit students are able to</p> <p>Knowledge: Define and describe pilot study.</p> <p>Skill: Conduct pilot study.</p> <p>Attitude: Formulate plan for data collection.</p> | <p>Implementing Research Plan:</p> <ul style="list-style-type: none"> • Pilot study (1 hour) • Review research plan design (1 hour) • Planning for data collection (1 hour) • Administration of tool/ Interventions .(1 hour) • Collection of data. (1 hour) |
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| Course outcome | Program outcome | | | | | | |
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |

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| CO-1- Explain about pilot study | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO2- Review research plan design | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Interpret planning for data collection | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-4- Describe administration of tool/ Interventions | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5- Illustrate collection of data | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| IX (10 hours) | At the end of unit students are able to Knowledge: Know and describe various methods for data analysis. Skill: Analyze data by using appropriate analysis method. Attitude: Formulate plan for data analysis. | | Analysis and Interpretation of Data: <ul style="list-style-type: none"> • Plan for data analysis: quantitative and Qualitative. (2 hours) • Preparing data for computer analysis and presentation (1hour) • Statistical analysis. • Interpretation of data.(2 hours) • Conclusion and generalizations • Summary and discussion. (3 hours) • Descriptive and Inferential Analysis. (2 hours) | | | | |
| Course outcome | Program outcome | | | | | | |
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care | Lifelong learner | Critical thinker | Researcher |

| | | | | team and system | | | |
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| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1-Describe plan for data analysis for quantitative and Qualitative. | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-2-Prepare data for computer analysis and presentation | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-3- Explain Statistical analysis. | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-4- Describe Interpretation of data. | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-5- Interpret conclusion and generalizations of research result | 3 | 3 | 1 | 2 | 2 | 2 | 3 |
| CO-6- Describe how to write | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| summary and discussion. | | | | | | | |
| CO-7- Explain Descriptive and Inferential Analysis. | 3 | 3 | 1 | 2 | 2 | 2 | 3 |

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| X (10 hours) | At the end of unit students are able to Knowledge: Understand and describe various methods and styles of writing research report. Skill: Communicate research results effectively and Compare research reports. | Reporting and Utilizing Research Findings: <ul style="list-style-type: none"> • Communication of research results; oral and written. (2 hours) • Writing research report purposes, methods and style-Vancouver, American Psychological Association (APA), Campbell etc(4 hours) • Writing scientific article for publication: purposes & style (4 hours) |
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| Course outcome | Program outcome | | | | | | |
|---|--------------------------|--------------|--------------|--|------------------|------------------|------------|
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1-Explain communication of research results in oral and written. | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-2- Illustrate how to write research report and its purposes, methods and | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| different style of writing bibliography | | | | | | | |
| CO-3- Describe how to write scientific article for publication, its purposes & style | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| XI (03 hours) | At the end of unit students are able to Knowledge: Understand and describe criteria's for critical analysis. Skill: Analyze and communicate research articles critically. Attitude: Initiate critical analysis. | | <ul style="list-style-type: none"> • Critical analysis of research reports and articles. (1 hour) • Presenting and communicating critique. (1 hour) • Research Critique (1 hour) | | | | |
| Course outcome | Program outcome | | | | | | |
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Describe critical analysis of research reports and articles. | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO-2- Illustrate presenting and | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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| communicating critique. | | | | | | | |
| CO-3-Explain about Research Critique | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| XII (04 hours) | At the end of unit students are able to Knowledge: Understand and describe criteria's for presenting research proposal. Skill: Present research proposal. Attitude: Prepare research proposal. | | <ul style="list-style-type: none"> Developing and preparing research proposal. (4 hours) | | | | |
| Course outcome | Program outcome | | | | | | |
| | Clinician/Nurse educator | Professional | Communicator | Leader and member of the health care team and system | Lifelong learner | Critical thinker | Researcher |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
| CO-1- Interpret developing and preparing of research proposal | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

DISTRIBUTION OF PRACTICAL HOURS:

| <i>Unit No.</i> | <i>Activity to performed by the students</i> | <i>Allotted Hours</i> |
|-----------------|--|-----------------------|
| II | Review of literature. | 05 |
| IV | Research Problem | 05 |
| V | Developing Theoretical/Conceptual Framework | 05 |
| VII | Tools and methods of data collection | 10 |
| IX | Analysis and interpretation of data | 10 |
| XI | Critical analysis of research reports and articles | 08 |
| XII | Developing and presenting a research proposal | 07 |
| Total Hours | | 50 |

TEACHING STRATEGY:

Lecture -100

Practical Hours – 50

TEACHING METHODS:

Lecture cum discussion, seminar/presentations, project, class room exercises and journal club

A.V. AIDS:

Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

ASSIGNMENTS:

| Sr. No. | Assignment | No./ Quantity | Marks per Assignment | Total Marks |
|-------------|---|---------------|----------------------|-------------|
| 1 | Short Project | One | 1X100 | 100 |
| 2 | Journal Presentation (Research Articles) | One | 1X25 | 25 |
| 3 | Research Critique | One | 1X50 | 25 |
| 4 | Preparation & Presentation of Research Proposal | One | 1X25 | 25 |
| 5 | Writing a scientific paper. | One | 1X 25 | 25 |
| Total Marks | | | | 200 |

LIST OF RECOMMENDED BOOKS:

- Basavanthappa B.T, Nursing Research
- Garrett H.E, Statistic in psychology & education
- Mahajan B.K. Methods in Biostatistics.
- Rose Hott & Budin. Notter's Essentials of Nursing Research 5th edition.
- Practical Nunshall, Nursing Research 3rd edition.
- P.K. Indirani, Research methods for Nurses.
- Polit, DF, & Beck C.T, Nursing Research principles & methods 7th edition.
- Polit, Beck & P Hungler, Nursing Research methods, Appraisal & Utilization
- Clifford et al, Getting Research into practice.
- Macnee C.L Understanding Nursing Research: Reading & using Research in Practice.
- Text Book of Nursing Research , Suresh Sharma