

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Research Methodology
Course number	NURS4327
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - Demonstrate knowledge of the historical evolution of and future direction for nursing research.
- 2 - Describe the nurse's role as a consumer of research
- 3 - Compare two broad purposes for conducting research.
- 4 - Contrast the various Roles of nurses in research.
- 5 - Recall some of the historic events in the development of nursing research at national and international level.
- 6 - Trace the development of ethical codes and guidelines.
- 7 - Describe the process of ensuring that subjects participating in a study have been protected from violation of human rights.
- 8 - Critique the ethical aspects of a nursing research study.
- 9 - Distinguish between a problem and the purpose of a study.
- 10 - Cite different sources of ideas for selecting a research problem.
- 11 - Critique Problem Statements, Purpose Statements, And Research Questions In Published Research Reports And Articles
- 12 - Determine the purposes for the literature review
- 13 - Describe the purposes of a literature review.
- 14 - Compare advantages and disadvantages of print and computer database sources for searching the literature.
- 15 - Critique the literature review section of research study
- 16 - Identify the major characteristics of theories, conceptual models, and frameworks.
- 17 - Identify several conceptual models of nursing and other conceptual models frequently used by nurse researchers.
- 18 - Critique the study framework section of research reports
- 19 - Determine the purposes of hypotheses in nursing research studies
- 20 - Distinguish between simple and complex hypotheses
- 21 - Compare and contrast inductive versus deductive hypotheses, directional versus non-directional hypothesis, simple versus complex hypotheses, and statistical (null) versus research hypotheses.
- 22 - Critique study hypotheses and research questions in research reports
- 23 - Define and explain the purpose of research design.
- 24 - Compare and contrast significant quantitative/qualitative aspects of research designs.
- 25 - Critique the design section of quantitative studies
- 26 - Differentiate between qualitative and quantitative research.
- 27 - Identify two of the most common data collection methods used in qualitative research.
- 28 - Critique the design section of qualitative research studies
- 29 - Define population and sample including all attributes.
- 30 - Determine which sampling technique to use in various types of research studies.
- 31 - Critique the sampling procedure described in research reports and articles.
- 32 - Compare and contrast the four types of levels of measurement.
- 33 - Discuss the method of selection of a data-collection instrument
- 34 - Critique the data-collection section of research reports
- 35 - Identify common instruments and methods used to collect data in quantitative and qualitative research.
- 36 - Differentiate among the three different levels of structure that can be used in interviews.
- 37 - Critique the data-collection methods used in research studies reported in the literature.
- 38 - Differentiate between descriptive and inferential statistics.

- 39 - Determine appropriate descriptive statistics to use in presenting selected data.
- 40 - Critique descriptive statistics presented in research reports.
- 41 - Critique inferential statistics presented in research reports.
- 42 - Describe the methods used to present research findings.
- 43 - Discuss the conclusions of research studies.
- 44 - Critique the findings, conclusions, implications, and recommendations of published research studies.
- 45 - List factors to consider when interpreting research findings.
- 46 - Critique selected quantitative research reports in nursing.

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> * Demonstrate knowledge of the historical evolution of and future direction for nursing research at a national and international level. * Explain the role of research in the development of nursing knowledge. * Describe current research priorities in nursing at the national and international levels * . Describe the process of the literature review in conducting nursing research
Intellectual Skills	<ul style="list-style-type: none"> * . Analyze ethical issues involved in nursing research * Describe the qualitative and quantitative approaches of scientific research * Explore the use of populations and samples in conducting research studies. * Demonstrate an understanding of the concept of measurement in conducting research.
Professional Skills	<ul style="list-style-type: none"> * Develop different types of nursing research problems for different nursing research studies design. * Apply critical thinking skills in the evaluation of published nursing research. * Communicate in writing an understanding of the steps of the research process by developing a limited nursing research proposal. * Analyze nursing research articles for applicability of findings to clinical practice.
General Skill	<ul style="list-style-type: none"> * Apply the major steps of the research process to conduct a research to study a nursing problem. * Critique research reports according to the major steps of the scientific research. * Recognize unethical nursing research. * Analyze the various methods used to present research findings in nursing.

Course Contents

- 1 - Unit 1: Introduction & Development of Nursing Research
- 2 - Unit 2: Ethical Issues in Nursing Research
- 3 - Unit 3: Identifying Nursing Research Problems
- 4 - Unit 4: Review of the Literature
- 5 - Unit 5: Theory and Nursing Research
- 6 - Unit 6: Hypotheses
- 7 - Unit 7: Quantitative Research Designs
- 8 - Unit 9: An Overview of Qualitative Research
- 9 - Unit 10: Populations and Samples
- 10 - Unit 11: Measurement of Data Collection
- 11 - Unit 12: Data-Collection Methods
- 12 - Unit 13: Descriptive Statistics
- 13 - Unit 14: Inferential statistics
- 14 - Unit 15: Presentation and Discussion of Study Findings
- 15 - Unit 16: Critique of Research Reports

Teaching and Learning Methods

- 1 - Lectures
- 2 - Discussion and problem solving
- 3 - Individual assignments
- 4 - Group Work (Application Exercises)

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First mid-term exam	4th week	20%
Second mid-term exam	8th week	20%
Written Assignment/ Abstract Critique		10%
Final Written Exams	16th week	50%

Books and References

Essential books	Nieswiadomy, R. M. (2014). Foundations of Nursing Research (6th ed.). Upper Saddle River, NJ: Prentice-Hall.
Recommended books	For good research articles, please refer to the following journals: This list is non- conclusive. Nursing Research Applied Nursing Research Clinical Nursing Research