**Syllabus of Research Methods**

**1. Course Title:** Research Methods

**2. Course Number:** (403)

**3. Credit Hours:**  (2) credits.

**4. Course Calendar:** (2) hours weekly of (15) weeks.

**5. Placement:** Fourth year / first semester.

**6. Instructors:** Allied faculties.

**7. Course Descriptive:**

The course is designed to provide the nursing students with knowledge related to basic concepts & principles of scientific research process. It is contributed to increase their knowledge, awareness, understanding & recognition on areas of priorities for nursing research.

**8. Course Goals:**

**At the end of this course the students will be able to:**

* Identify research concepts, purposes, and characteristics of scientific research.
* Search for nursing problem statement.
* List sources of nursing research problem.
* Discuss initial & secondary sources of review of literature.
* Describe types of variables used in nursing research.
* Discuss the types of research design.
* Define the population, sampling & sample.
* Discuss types of sampling techniques (probability & non probability sample).
* Identify the various methods used in data collection.
* Explain the types of statistical procedures (descriptive & inferential tests).
* Analyze, represent & interpret the results.
* Write a study project.

**9. Course outline:**

**Unit 1: Introduction to scientific research: 2 Hrs.**

* Basic concepts.
* Purposes of scientific research.
* Characteristics of scientific research & research hypothesis.

**Unit 2: Major steps in scientific research. 2 Hrs.**

**Unit 3: Research problem & research questions. 2Hrs.**

**Unit 4: Review of literature: 4 Hrs.**

* Purposes of review of literature.
* Types of information.
* Writing review of literature.

**Unit 5: Sample & sampling: 4 Hrs.**

* Population.
* Sample.
* Types of sample.

**Unit 6: Research design: 4 Hrs.**

* Experimental design.
* Quasi Experimental design.
* Non- Experimental design (Descriptive & correlation design).
* Survey.

**Unit 7: Measurement & data collection: 4 Hrs.**

* Observational methods.
* Types of questionnaire & interviews.
* Scales.

**Unit 8: Tabulation & analysis of data. 4 Hrs.**

**Unit 9: Discussion the findings of the study 2 Hrs.**

**Unit 10: Methods of writing research reports or study. 2 Hrs.**

**Learning Resources:**

Blackboard, Calculators, Overhead Projector, and Handout.

**Teaching / Learning Strategies:**

Lecture, discussion, Groups work and daily assignments.

**Student Evaluation:**

1st theory exam. 20%

2nd theory exam. 20%

Assignments 10%

Final exam. 50%

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Total 100%

**References:**

* Massey, V., Nursing Research: A Study And Learning Tool,

Pennsylvania, Springhousenote, 1999.

* Nieswiadomy, R., Foundation of Nursing Research, 3rd ed., Stam & Appleton & Lange, 1998.
* Polit, Denise F and Cheryl Tatano Beck, Essentials of Nursing Research Methods, Appraised, and Utilization, 6th ed., New York Lippincott Williams & Wilkins, 2005.
* Polit, Denise F. and Cheryl Tatano Beck, Nursing Research Principles and Methods, 7th ed., New York Lippincott Williams & Wilkins, 2004.

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