

## Course Description Template

<b>1.Course Name:</b>	
Research Methods in Nursing	
<b>2.Course Code:</b>	
RSM302	
<b>3.(Semester-based)</b>	
2024 / 2025 (Semester-based)	
<b>4.description preparation date:</b>	
5/2/2025	
<b>5.Available Attendance Modes:</b>	
In-person	
<b>6.Total Study Hours / Total Credits:</b>	
Theoretical: 2 hours/week	
Practical: -----	
Number of study hours (total)/ 30 theoretical hours	
Number of units (total): 2 units	
<b>7.Course Coordinator(s) (if more than one, please specify):</b>	
Name: Samia Farouk Mahmoud	
Email: prof.samia.zag@gmail.com	
<b>8-Course Objectives</b>	
<p><b>I. Cognitive Objectives</b></p> <p><b>At the end of the course, the students should be able to:</b></p> <ol style="list-style-type: none"> <li>1. Identify the steps of the scientific research process in nursing, from defining the problem to interpreting the results.</li> <li>2. Define key concepts and variables in research, classify them, and determine their role in the study.</li> <li>3. Describe the characteristics of scientific research and its alignment with academic standards.</li> <li>4. Differentiate between various researches methodologies and select the most appropriate one based on the study's nature.</li> <li>5. Outline the essential steps of the research process, from problem identification to writing the final report.</li> <li>6. Recognize the key factors to consider when selecting a research topic and their impact on study design.</li> <li>7. Classify different types of research variables (e.g., independent, dependent) and explain their significance.</li> <li>8. Define the objectives of scientific research and formulate them clearly.</li> <li>9. Explain the characteristics of hypotheses and their importance in guiding research.</li> </ol>	<p><b>Learning Objectives</b></p>



<ol style="list-style-type: none"> <li>10. Differentiate between various research designs, including descriptive and experimental designs, and determine the most suitable approach.</li> <li>11. Identify different data collection methods (e.g., interviews, observations, questionnaires) and apply them appropriately in research.</li> <li>12. Identify data collection methods and <b>apply</b> them in scientific research (interviews, observations, questionnaires).</li> <li>13. Understand the sampling process, including types of samples and how to select the appropriate sample.</li> <li>14. Recognize ethical principles in scientific research and implement them in nursing-related research.</li> <li>15. Interpret data and apply the results within the context of the research.</li> </ol> <p><b>II. Skill objectives</b></p> <ol style="list-style-type: none"> <li>16. Formulate the research question clearly based on the defined problem.</li> <li>17. Develop scientifically accurate research hypotheses that guide the study.</li> <li>18. Select the appropriate research design according to the research objectives and the nature of the sample.</li> <li>19. Apply various data collection methods such as interviews, questionnaires, and observations to gather research information.</li> <li>20. Conduct research interviews with participants according to scientific standards and document the data.</li> <li>21. Utilize statistical analysis tools to analyze and interpret the collected data scientifically.</li> <li>22. Prepare comprehensive research reports that include all research stages from design to final interpretation of results.</li> <li>23. Select appropriate samples for the research based on sample size and techniques (random, stratified, etc.).</li> <li>24. Apply ethical principles in data collection, handling participants, and ensuring confidentiality.</li> <li>25. Write the final research report academically, presenting results and recommendations.</li> </ol>	
9. Teaching and Learning Strategies	
<p><b>Teaching Methods:</b></p> <ul style="list-style-type: none"> <li>• <b>Lectures:</b> To present basic information and theoretical concepts.</li> <li>• <b>Group Discussions:</b> To enhance critical thinking and active participation among students.</li> </ul>	<p style="text-align: center;">Strategy</p>



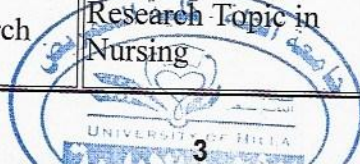
- **Teamwork:** To develop collaboration skills and the practical application of concepts.
- **Brainstorming:** To generate creative ideas and solutions.
- **Problem-based Learning:** To encourage students to solve real-world problems.

**Assessment Methods:**

- **Written Tests:** To measure theoretical understanding of concepts and terminology.
- **Practical Assessment (Applied Skills):** Through case studies or hands-on activities.
- **Participation in Group Discussions:** To assess interaction level and critical understanding.
- **Brainstorming:** To evaluate the creative input and solution-oriented thinking.
- **Reports:** To assess written communication and research capabilities.
- **Extracurricular Activities:** To evaluate engagement and learning outside the classroom.
- **Quizzes:** To measure quick understanding and recall of key concepts.

**10. Course Structure  
First Semester**

Week	Hours	Learning Outcomes	Unit or Topic Name	Learning Method	Assessment Method
1	2	- Identify the steps of scientific research in nursing.	Unit 1: Introduction to Scientific Research in Nursing	Lecture, Group Discussion	• Short Quiz, Discussion
2	2	- Define concepts and variables in the research problem.	Unit 2: Research Concepts and Variables	Lecture, Case Study	Oral Exam, Exercises
3	2	- Describe the characteristics of scientific research.	Scientific Research Characteristics and Objectives	Presentation, Discussion	Case Analysis Report
4	2	- Identify different types of research methodologies.	Unit 3: Types of Research Methodologies in Nursing	Lecture, Group Work	Short Quiz
5	2	- Understand the basic steps of the scientific research process.	Stages of the Scientific Research Process	Lecture, Practical Workshop	Short Quiz, Homework
6	2	- Identify factors to consider when selecting a research topic.	Formulating a Research Topic in Nursing	Lecture, Case Study Discussion	Short Quiz



7	2	- Identify types of variables in research.	Unit 4: Types of Variables in Scientific Research	Lecture, Interactive Exercises	Short Quiz, Exercises
8	2	- Understand the importance of hypotheses in scientific research.	-	Lecture, Group Discussion	Hypothesis Evaluation
9	2	- Understand research methods and their purpose.	Research Methods in Nursing	Lecture, Interactive Discussion	Short Quiz
10	2	- Apply data collection methods.	Unit 5: Data Collection Methods in Scientific Research	Workshop, Practical Experiments	Practical Exercise, Research Report
11	2	- Identify appropriate data collection methods.	Data Collection Tools (Questionnaires, Interviews)	Lecture, Training Workshop	Practical Exercise Evaluation
12	2	- Understand the sampling process in scientific research.	Unit 6: Sampling and its Methods	Lecture, Case Study Discussion	Short Quiz
13	2	- Identify ethical principles in scientific research.	Unit 7: Ethics in Scientific Research	Case Study, Data Analysis	Evaluation of Ethical Research
14	2	- Understand data interpretation and analysis methods.	-	Workshop, Practical Application	Practical Exercise, Short Quiz
15	2	- Write the final research report.	-	Lecture, Group Discussion	Final Research Report Evaluation

### Second Semester

Week	Hours	Learning Outcomes	Unit or Topic Name	Learning Method	Assessment Method
1	2	- Identify the steps of scientific research in nursing.	Unit 1: Introduction to Scientific Research in Nursing	Lecture, Group Discussion	• Short Quiz, Discussion
2	2	- Define concepts and variables in the research problem.	Unit 2: Research Concepts and Variables	Lecture, Case Study	Oral Exam, Exercises
3	2	- Describe the characteristics of scientific research.	Scientific Research Characteristics and Objectives	Presentation, Discussion	Case Analysis Report



4	2	- Identify different types of research methodologies.	Unit 3: Types of Research Methodologies in Nursing	Lecture, Group Work	Short Quiz
5	2	- Understand the basic steps of the scientific research process.	Stages of the Scientific Research Process	Lecture, Practical Workshop	Short Quiz, Homework
6	2	- Identify factors to consider when selecting a research topic.	Formulating a Research Topic in Nursing	Lecture, Case Study Discussion	Short Quiz
7	2	- Identify types of variables in research.	Unit 4: Types of Variables in Scientific Research	Lecture, Interactive Exercises	Short Quiz, Exercises
8	2	- Understand the importance of hypotheses in scientific research.	-	Lecture, Group Discussion	Hypothesis Evaluation
9	2	- Understand research methods and their purpose.	Research Methods in Nursing	Lecture, Interactive Discussion	Short Quiz
10	2	- Apply data collection methods.	Unit 5: Data Collection Methods in Scientific Research	Workshop, Practical Experiments	Practical Exercise, Research Report
11	2	- Identify appropriate data collection methods.	Data Collection Tools (Questionnaires, Interviews)	Lecture, Training Workshop	Practical Exercise Evaluation
12	2	- Understand the sampling process in scientific research.	Unit 6: Sampling and its Methods	Lecture, Case Study Discussion	Short Quiz
13	2	- Identify ethical principles in scientific research.	Unit 7: Ethics in Scientific Research	Case Study, Data Analysis	Evaluation of Ethical Research
14	2	- Understand data interpretation and analysis methods.	-	Workshop, Practical Application	Practical Exercise, Short Quiz
15	2	- Write the final research report.	-	Lecture, Group Discussion	Final Research Report Evaluation

### 11. Course Evaluation

The semester grade (100) is distributed as follows:

- Coursework: 30%



- Final Exam: 70%
- Quizzes: 20%
- Participation in Group Discussions: 5 points (5%)
- Absence: 5 points (5%)

The final exam (70%) includes a comprehensive evaluation of learning outcomes, covering all course units.

## 12. Learning and Teaching Resources

- Required textbooks

Required textbooks  
(methodology if any)

1. Polit, D. F., & Beck, C. T. (2023). *Nursing research: Generating and assessing evidence for nursing practice* (12th ed.). Wolters Kluwer Health.
2. McDonald, M. L. H. (2022). *Introduction to nursing research: Incorporating evidence-based practice* (6th ed.). Lippincott Williams & Wilkins.
3. Boswell, C., & Cannon, S. C. (2022). *Fundamentals of nursing research* (6th ed.). Jones & Bartlett Learning.
4. Gable, C. M. S., & Grbich, C. S. (2021). *Research methods in nursing and health sciences* (3rd ed.). Sage Publications.
5. Morse, J. M. (2021). *Nursing research: A qualitative perspective* (6th ed.). Jones & Bartlett Learning.
6. Koller, D. L. W. (2021). *Ethical issues in nursing research* (2nd ed.). Springer.
7. O'Rourke, A. (2020). *Evidence-based nursing: The research-practice connection* (3rd ed.). Prentice Hall.

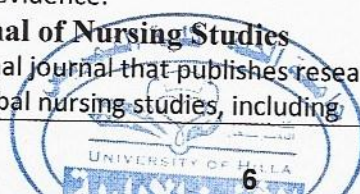
Main References (Sources)

1. Creswell, J. W. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches* (5th ed.). Sage Publications.
2. Gray, J. R., Grove, S. K., & Sutherland, S. (2021). *The practice of nursing research: Appraisal, synthesis, and generation of evidence* (9th ed.). Elsevier.
3. Polit, D. F., & Beck, C. T. (2020). *Essentials of nursing research: Appraising evidence for nursing practice* (9th ed.). Wolters Kluwer.
4. Moule, P., & Goodman, M. (2017). *Nursing research: An introduction* (4th ed.). Sage Publications.

Recommended supporting books and references (scientific journals, reports, etc.)

Scientific Journals:

1. **Journal of Nursing Research**
  - A specialized journal in nursing research that covers a wide range of topics related to nursing practices and scientific evidence.
2. **International Journal of Nursing Studies**
  - An international journal that publishes research articles on global nursing studies, including



<p>developments in healthcare practices and clinical research.</p> <p><b>3. Nursing Research</b></p> <ul style="list-style-type: none"> <li>○ One of the leading journals in nursing that publishes scientific studies related to practical applications and evidence-based practices in nursing.</li> </ul> <p><b>4. Journal of Advanced Nursing</b></p> <ul style="list-style-type: none"> <li>○ An academic journal dedicated to publishing research that enhances nursing practice through scientific evidence and field research.</li> </ul> <p><i>Government and International Reports:</i></p> <ol style="list-style-type: none"> <li><b>1. World Health Organization (WHO) Reports</b></li> <li><b>2. National Institutes of Health (NIH) Reports</b></li> <li><b>3. Centers for Disease Control and Prevention (CDC) Reports</b></li> </ol> <ul style="list-style-type: none"> <li>○ CDC reports on infectious diseases, prevention, and the latest research related to public health.</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>CINAHL (Cumulative Index to Nursing and Allied Health Literature)</b></li> <li>● <b>PubMed</b></li> <li>● <b>Google Scholar</b></li> </ul>	<p>Electronic references, websites</p>
<ul style="list-style-type: none"> <li>▪ Review emerging scientific websites specialized in nursing to keep up with the latest developments in nursing research methodology.</li> <li>▪ Develop students' skills in designing and conducting nursing research.</li> <li>▪ Rely on reference books such as <i>Nursing Research</i> by Polit &amp; Beck.</li> <li>▪ Utilize specialized scientific journals like <i>Journal of Nursing Research</i> and PubMed to encourage ongoing scientific research.</li> </ul>	<p><b>Course Development Plan</b></p>

