

In The Name of God



Semnan University of Medical Sciences

Nursing and Midwifery School

Name of course: Methodology and critique of quantitative and qualitative research
in nursing

Course credit: 4 semester units (3 theories and 0.5 practical)

Placement of course: 1st Semester of 2024-2025 (1403-04)

Days and time of class: Monday / 14:00-18:00

Faculties:

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Course overview and objectives

This course is one of the required core courses for doctoral students. This course is related to principles and methodology of quantitative and qualitative research approach. In this course, students are expected to:

1. Explained and compared the quantitative and qualitative research approach philosophically
2. Explained and evaluated the main principles and characteristics of quantitative and qualitative research approach
3. Explored the qualitative research methods such as phenomenology, grounded theory, action research, ethnography and etc.
4. Explored the quantitative research methods such as experimental and non-experimental designs.
5. Explain and compare research population and sampling in quantitative and qualitative research approach.
6. Explain and compare data collection methods in quantitative and qualitative research approach.
7. Explain and describe data analysis process in qualitative research methods.
8. Explain the principles of evaluation of measured data (validity, reliability and bias) in quantitative research.
9. Explain the trustworthiness and rigor principles in qualitative research methods.
10. Explain principles and types of triangulation in qualitative research.
11. Explored and explained the general principles of research critique
12. Criticized and evaluated quantitative research as follows:
 - Research topics, aims, questions and hypothesis
 - Sampling and data collection process
 - Data analysis and measurement principles
 - Ethical considerations and writing the final report
13. Criticized and evaluated qualitative research as follows:
 - Descriptive vividness
 - Methodological congruences and rigor
 - Analytical preciseness
 - Theoretical connectedness and relevance
14. Evaluated the quantitative and qualitative designs.

Class schedule and suggested references

Contents	Presenter(s)	Sessions*
1. Introduction to lesson 2. Explaining students' assignments	Dr. Fakhr-Movahedi Dr. Soleimani	1
1. Quantitative approach: research topics and Non-experimental research designs 2. Presentation a critique form in non-experimental studies	- Student	2
1. Quantitative approach: Experimental research 2. Presentation a critique form in experimental research	- Student	
1. Quantitative approaches: Sampling and randomization 2. Presentation and critique of an article according to sampling and randomization issues	- Student	3
1. Quantitative approaches: Data collection methods 2. Presentation and critique of an article according to data collection issues	- Student	
1. Quantitative approaches: Measurement's theory, validity and reliability of instruments 2. Quantitative approaches: Bias in research 3. Presentation and critique of an article according to measurements and bias issues	- Student	4
1. Qualitative and quantitative research approach: philosophy, principles and comparisons 2. Initial steps in qualitative research: research question, literature review and writing a qualitative research proposal	- Students Dr. Soleimani Dr. Fakhr-Movahedi	5
1. Population and sampling in qualitative research 2. Data collection methods in qualitative research	- Students Dr. Soleimani Dr. Fakhr-Movahedi	6
1. Qualitative data analysis 2. Rigor in qualitative research 3. Ethical consideration in research approaches	- Students Dr. Soleimani Dr. Fakhr-Movahedi	7
1. Phenomenology 2. Grounded theory research	- Students Dr. Soleimani Dr. Fakhr-Movahedi	8
1. Ethnography 2. Qualitative content analysis and other approach in qualitative research	- Students Dr. Fakhr-Movahedi Dr. Soleimani	9
1. Exploring the descriptive vividness, methodological congruences and rigor; analytical preciseness; theoretical connectedness and relevance in qualitative research	- Students Dr. Fakhr-Movahedi Dr. Soleimani	10
1. Critique of a grounded theory article 2. Critique of phenomenology article 3. Critique of ethnography article	- Students Dr. Fakhr-Movahedi Dr. Soleimani	11
Presentation of students' assignments	Students	12-17

* Each session: Four hours

Suggested references**Qualitative section**

1. Immy Holloway and Kathleen Galvin, (2017), Qualitative research in nursing and healthcare, 4th edition.
2. Helen J. Streubert and Dona Rinaldi Carpenter, (2011), Qualitative research in nursing, 5th edition.
3. Juliet Corbin and Anselm Strauss, (2014), Basics of qualitative research, 4th edition.
4. Sharon Andrew and Elizabeth J. Halcomb, (2009), Mixed methods research for nursing and the health sciences, 1st edition or last edition.
5. Johnny Saldana, (2009), The coding manual for qualitative researchers, 1st edition.
6. Martin Heidegger, (1994), Introduction to phenomenological research, Translated by: Daniel O. Dahlstrom.
7. Garrett K. Chan, Karen A. Brykczynski, Ruth E. Malone and Patricia Benner, (2010), Interpretive phenomenology in health care research, 1st edition.
8. Sandra P. Thomas and Howard R. Pollio, (2002), Listening to the patient: a phenomenological approach to nursing research and practice, 1st edition.
9. Other related literatures

Quantitative section

1. Susan K. Grove, Jennifer R. Gray and Nancy Burns, (2015). Understanding nursing research: building an evidenced-based practice, 6th edition.
2. Rose Marie Nieswiadomy, (2012), Foundations of nursing research, 6th edition.
3. Other related literatures

Teaching method

1. Lecture by faculties
2. Students' presentation, and discussion according to each session of class schedule.

Evaluation

Evaluation of performance in the course will be based on the specified course requirements as listed according to following table:

Assignments	Percentage of grade
Class participation and discussion	5%
Seminar presentation and discussion	10%
Critique of a quantitative and qualitative article	15%
Conduct a qualitative content analysis research and presenting the findings/ or conducting, transcribing and analyzing of a qualitative interview	20%
Final exam	50%
Total score	100%

- **Class participation and discussion:** The class participation grade will be determined by judgement of instructors based on regular weekly participation and discussion around certain topics according to the class schedule.
- **Seminar presentation and discussion:** Each student must present specifying topics according to planned session during course.
- **Conduct a qualitative content analysis research and presenting the findings:** Two students must choose a concept related to nursing and conduct a qualitative content analysis research.
- **Critique of a article:** Each student must present a checklist or appraisal form for critique of a article. The selected article for critique evaluation must be from high-quality journal in English language, and article must be from the latest issue of the selected journal.

- **Final exam**: Each student must participate in final exam of course. The exam was prepared according to classroom contents.