

Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Research Methods and Biostatistics	HEM208	4. Semester / Fall	3	0	0	4
Prerequisites	None					
Language of Instruction	Turkish					
Course Type	Compulsory					
learning and teaching techniques of the Course	Lecture, Discussion, Question & Answer, Individual Training, Team / Group Work, Brainstorming, Project Design / Management, Other.					
Instructor(s)						
Goal	Understanding the importance of research in nursing, research process, systematic analysis of research articles and literature review.					
Learning Outcomes	<ol style="list-style-type: none"> Explains the concepts and terms frequently used in scientific research and education and scientific research, Examines the research process, Learns the techniques of finding literature, collecting data, evaluating data and writing reports in order to conduct research on a particular subject, Prepares a research proposal in accordance with the scientific method steps. 					
Course content	The course focuses on the beginning level competencies the student needs in order to use the process of scientific inquiry as the basis for professional nursing practice.					
References	1-Sümbüloğlu, K., "Sağlık Bilimlerinde Araştırma Teknikleri ve İstatistik", Mariş Yayınları, Ankara, 1978. 2-Sencer, M. Ve Sencer, Y., " Toplumsal Araştırmalarda Yöntem Bilim", Türkiye ve Orta Doğu Amme İdaresi Ens. Yayınları, No:172, Ankara, 1978. 3-Karasar, N., "Bilimsel Araştırma Yöntemi", 2. Baskı, Ankara, 1984. 4-Özçelik, A.D., Araştırma Teknikleri", ÜSYM Eğitim Yayıını, 1981. 5-Seamen, H.C.C., "Research Methods Principles", Practice and Theory For Nursing, California, 1987. 6-Catanzaro, W., "Nursing Research Theory and Practice", St. Louis, Washington, D.C. 1981. 7-Polit, D.F., Hungler P.,B. "Fifth Edition Nursing Research Principles and Methods", J.B. Lippincott Company Philadelphia, 1995. 8-Aksakoğlu, G., "Sağlıkta Araştırma Teknikleri ve Analiz Yöntemleri", DEÜ Rektörlük Matbaası, İzmir, 2001. 9-Aksayan S, Bahar Z, Bayık A, Emiroğlu N.O ve ark Hemşirelikte Araştırma İlk Süreç ve Yöntemleri, Editör:İnci Erefe, Odak Ofset, İstanbul, 2002. 10. Steinke, E.E. Research ethics, informed consent, and participant recruitment. Clinical Nurse Specialist, 2004;18, 88-97.					

Course Outline Weekly:

WEEKS	TOPICS
1. Week	Relevance of research to nursing practice
2. Week	Introduction to the research process
3. Week	Ethical issues in nursing research
4. Week	Delineating researchable questions
5. Week	Theoretical frameworks of research
6. Week	Define of research concepts
7. Week	MIDTERM
8. Week	Hypothesis generation and testing, Dependent and independent variable
9. Week	Population and samples
10. Week	Literature search
11. Week	Research designs
12. Week	Approach to data collection
13. Week	Asking questions through interview and questionnaire,
14. Week	Scientific observation
15. Week	AN OVERVIEW

ECTS (Student WorkLoad Table)

Activities	Number	Duration	Total Work Load
Course Duration (X14)	14	3	42
Laboratory			
Practice			
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	14	2	28
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)	2	4	8
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	2	7	14
Final Exam Preparation Time	1	8	8
Total Work Load (hour) / 25(s)		100/25=4	
ECTS			4

Evaluation System

Workload within semester	Number	Contribution
Midterm Exam	1	%40
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If there is)		
Assignments		
Presentations and Seminars		
Projects		
Other		
Total Semester Work Load	1	%40
End-of-year Work Load		
Final Exam	1	%60
Assignments		
Practice		
Laboratory		
Total End-of-year Work Load	1	%60
TOTAL	2	%100

The relationship between learning outcomes and the program qualifications of the course

Program Qualifications	Learning Outcomes			
	LO1	LO2	LO3	LO4
1. Have the knowledge and skills to fulfill their professional roles and functions.	3	3	3	3
2. Performs, evaluates and records nursing practices toward professional principles and standards.				
3. Practice the health care needs of the individual, family and society with a holistic approach, toward the nursing process.				
4. Communicates effectively with the individual, family, community and health team members.				
5. Performs professional practices toward current scientific data by using information and maintenance technologies.				
6. Have a foreign language proficiency to reach scientific information and communicate effectively.				
7. Behaves in accordance with professional, cultural and ethical values in nursing practices.				
8. Considers the relevant laws, regulations and legislation in nursing practices.				
9. Uses the learning-teaching and management process in nursing practices.				
10. Uses lifelong learning, problem solving, critical thinking and career planning skills to contribute to professional development.				
11. With the awareness of social responsibility, takes part in research, projects and activities in cooperation with the health team and other disciplines.				
12. Contributes to the provision and development of safe and quality health care.				

Level of providing proficiency: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent