

Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Research Methods and Biostatistics	HEM306	3.Year/6. Semester / Spring	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	This course is constituted initiative for the research and necessity of the research in nursing, research process, systematic analysis of the article and guidance to literature search .					
Learning Outcomes	<ol style="list-style-type: none"> <li>1. Individuals who can carry out their duties based on the science and art of nursing</li> <li>2. Individuals who can be pioneers as scientist and educationalists in raising the level of knowledge by having researchers</li> <li>3. When they are implementing their duties, individuals who will give priority of professional ethic in practising their duties</li> <li>4. Individuals who can take their place in the national and international platforms</li> <li>5. Individuals who can carry out her/his role in the health team adequately and effectively</li> <li>6. Individuals who will be able to check and evaluate the treatment given</li> </ol>					
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	<p>1- Sümbüloğlu, K., "Sağlık Bilimlerinde Araştırma Teknikleri ve İstatistik", Mavi Yayınları, Ankara, 1978.</p> <p>2-Sencer, M. Ve Sencer, Y., "Toplumsal Araştırmalarda Yöntem Bilim", Türkiye ve Orta Doğu Amme İdaresi Ens. Yayınları, No:172, Ankara, 1978.</p> <p>3-Karasar, N., "Bilimsel Araştırma Yöntemi", 2. Baskı, Ankara, 1984.</p> <p>4-Özçelik, A.D., Araştırma Teknikleri", ÜSYM Eğitim Yayınevi, 1981.</p> <p>5-Seamen, H.C.C., "Research Methods Principles", Practice and Theory For Nursing, California, 1987.</p> <p>6-Catanzaro, W., "Nursing Research Theory and Practice", St. Louis, Washington, D.C. 1981.</p> <p>7-Polit, D.F., Hungler P.,B. "Fifth Edition Nursing Research Principles and Methods", J.B. Lippincott Company Philadelphia, 1995.</p> <p>8-Aksakoğlu, G., "Sağlıkta Araştırma Teknikleri ve Analiz Yöntemleri", DEÜ Rektörlük Matbaası, İzmir, 2001.</p> <p>9-Aksayan S, Bahar Z, Bayık A, Emiroğlu N.O ve ark Hemşirelikte Araştırma İlkeleri Süreç ve Yöntemleri, Editör:İnci Erefe, Odak Ofset, İstanbul, 2002.</p> <p>10. Steinke, E.E. Research ethics, informed consent, and participant recruitment. Clinical Nurse Specialist, 2004;18, 88-97.</p>					

**Course Outline Weekly:**

<b>Weeks</b>	<b>Topics</b>
1. Week	Relevance of research to nursing practice
2. Week	Ethical in nursing researchs
3. Week	Introduction to the research process
4. Week	Preparation of Research Report
5. Week	Error Sources in Research
6. Week	Overview of Types of Research Design
7. Week	Universe and Sampling in Research
8. Week	<b>I. MIDTERM EXAM</b>
9. Week	General Principles in Data Summation, Data Collection Method Techniques and Tools
10. Week	Survey Method
11. Week	Interview Method - Observation Method
12. Week	Measurement and Scales
13. Week	Preparing the Data for Analysis
14. Week	Data Collection Approach, Scientific Observation
15. Week	Schedule Making and Writing Principles
16. Week	<b>FINAL EXAM</b>

**Evaluation System**

<b>Mid-Term Studies</b>	<b>Number</b>	<b>Contribution</b>
Midterm exams	1	%50
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
<b>Total Time To Activities For Midterm</b>		%50
<b>Final works</b>		
Final	1	%50
Homework		
Practice		
Laboratory		
<b>Total Time To Activities For Midterm</b>		%50
Contribution Of Midterm Studies On Grades		%50
Contribution Of Final Exam On Grades		%50
<b>Total</b>		100

### 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	
<b>ECTS</b>		4	

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

Program Qualifications	Learning outcomes			
	L.O1	L.O2	L.O3	L.O.4
1. 1. Competent and has the capabilities to fulfill their occupational duties.	5			
2. 2. Knows the theories and models that form the basis of Professional practice.				
3. 3. Has the general knowledge required to be both an individual and a member of the occupation.				
4. 4. Carries out nursing practice based on the principles and standards.				
5. 5. Meets the health-care needs of the individuals, families and the society with a holistic approach.				
6. 6. Makes use of effective communication.				
7. 7. Utilizes information and care technologies in professional practice and research.	4	4	5	5
8. 8. Uses scientific principles and techniques in Nursing practice.				
9. 9. Follows the latest advances and communicates with colleagues in a foreign language.				
10. 10. Behaves according with the professional ethics and values.				
11. 11. Takes the related legislation and regulations into account in Nursing practice.				
12. 12. Follows the politics and regulations affecting the Nursing profession.				
13. 13. Uses the learning-teaching and management processes in Nursing practice.				
14. 14. Uses the life-long learning, problem-solving and critical thinking abilities.		5		5
15. 15. With a sense of social responsibility takes part in studies, projects and some other activities with other team members and other				

	disciplines.			
16.	16.Joins in activities that can contribute to professional development.			
17.	17.Sets as a model for colleagues and the society with their professional identity.			
18.	18.Protects the basic values and social rights.			

**Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent**