

| Course Title                                   | Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Semester                    | Theoretical (hours/week) | Practice (hours/week) | Laboratory (hours/week) | ECTS |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------|-------------------------|------|
| Research Methods and Biostatistics             | HEM208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.Year/4. 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, sytematic 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 implomenting 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 platfoms</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”, Mariş 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 Yayını, 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 İlke 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      | 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      | <b>MIDTERM EXAM</b>                                                   |
| 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     | <b>GENERAL AGAIN</b>                                                  |

**Evaluation System**

| <b>Mid-Term Studies</b>                   | <b>Number</b> | <b>Contribution</b> |
|-------------------------------------------|---------------|---------------------|
| Midterm exams                             | 1             | %40                 |
| Quiz                                      |               |                     |
| Laboratory                                |               |                     |
| Practice                                  |               |                     |
| Field Study                               |               |                     |
| Course Internship (If There Is)           |               |                     |
| Homework's                                |               |                     |
| Presentation and Seminar                  |               |                     |
| Project                                   |               |                     |
| Other evaluation methods                  |               |                     |
| Final                                     | 1             | %60                 |
| <b>TOTAL</b>                              | 2             | %100                |
| Contribution Of Midterm Studies On Grades | 1             | %40                 |
| Contribution Of Final Exam On Grades      | 1             | %60                 |
| <b>Total</b>                              |               | <b>100</b>          |

## 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        |          |                 |

## 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.                                                                                                             | Fulfills the professional roles and responsibilities of nursing.                                         | 5                 |      |      |       |
| 2.                                                                                                             | Carries out nursing practices in line with professional ethical principles and standards.                |                   |      |      |       |
| 3.                                                                                                             | Uses holistic approach in nursing care, communicates effectively with individuals, families and society. |                   |      |      |       |
| 4.                                                                                                             | Bases nursing practices on scientific basis.                                                             |                   |      |      |       |
| 5.                                                                                                             | In nursing practices, it considers the relevant laws, regulations and legislation.                       |                   |      |      |       |
| 6.                                                                                                             | Uses the teaching-learning process in nursing practices.                                                 |                   |      |      |       |
| 7.                                                                                                             | Uses problem solving, critical thinking and lifelong learning skills.                                    | 4                 | 4    | 5    | 5     |
| 8.                                                                                                             | Takes part in social events.                                                                             |                   |      |      |       |
| 9.                                                                                                             | Takes part in activities that will contribute to professional development.                               |                   |      |      |       |
| 10.                                                                                                            | Acts respectfully and be tolerant of human rights in nursing practices.                                  |                   |      |      |       |
| 11.                                                                                                            | Considers cultural differences in nursing practices.                                                     |                   |      |      |       |
| <b>Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent</b> |                                                                                                          |                   |      |      |       |