

Course Name	Code	Term	Theory (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
<b>Pharmacology</b>	HEM134	2.Semester/Fall	2	0	0	3
Prerequisites	None					
Language of Instruction	Turkish					
Course Type	Compulsory					
Learning and teaching techniques of the course	Lecture, Discussion, Question and Answer, Laboratory studies, Experiment, Other.					
Course responsible(s)	Prof. Dr. Mehtap Ozkur, Doç. Dr. Necla Benlier					
Aim of the lesson	The aim of this course is to gain basic knowledge about the mechanisms of action, indications, side effects, toxic effects and common drug interactions of drugs used in the treatment of diseases, and nurses' responsibilities in drug treatments.					
Learning Outcomes	1. Can explain the basic concepts of pharmacology, routes of administration of drugs, drug forms, pharmacokinetics and pharmacodynamics of drugs 2. Discuss the effects and side effects of drugs used in treatment 3. Can monitor the effects and side effects of the drugs administered to the patient 4. Provide training to patients and their relatives about drug therapy 5. Knows the nurse's duties and responsibilities in drug administration 6. Can follow current developments in pharmacology					
References	1. Karahan, G. Pınar, A. Abbasoğlu, E. Törüner, A. Ceylan, D. Şimşek, Ö. Beşerler, N. Kural, S. Sezgin-Benli, İ. Salmaz, C. Tuğcu, Ö. Tokal, V. Telatar, Hemşireler İçin İlaç Rehberi, Başkent Üniversitesi Hastaneleri, 260 pp., Ankara, Başkent Üniversitesi Haberal Eğitim Vakfı, 2010, ISBN-978-975-8571-44-4 2010 2. Frandsen G., Pennington S.S. Abrams ın Klinik İlaç Tedavisi. Hemşireler İçin Akılcı İlaç Uygulamaları. Çeviri Editörü: Emine İyigün, Sevinç Taştan. 10. Baskı. Nobel Kitabevi, 2015 3. McFadden R. Farmakoloji. Hemşireler ve Diğer Sağlık Çalışanları İçin. Çeviri Editörü: Naile Bilgili, Sabire Yurtsever. Ankara, Palme Yayıncılık, 2014 4. Prof Dr. İsmet Dökmeci 2015. Sağlık Yüksek okulları için Farmakoloji. İstanbul Kitabevi 5. Akılcı Tedavi Yönünden Tıbbi Farmakoloji, 13. baskı, Prof. Dr. S.Oğuz Kayaalp; Pelikan Tıp Teknik Yayıncılık, 2021. 6. Farmakoloji, Lippincott görsel anlatımlı çalışma kitapları, Karen Whalen; Nobel Tıp Kitabevi, 2020.					

#### Course Outline Weekly

WEEKS	TOPICS
1. Week	Introduction to Pharmacology, General Pharmacology, Pharmacokinetics, Pharmacodynamics,
2. Week	Routes of administration and pharmaceutical forms of drugs
3. Week	Drug toxicity, side effects and drug interactions (Drug-Drug, Drug-Food)
4. Week	Autonomic Nervous System drugs
5. Week	Central Nervous System Drugs
6. Week	Drugs Used in the Treatment of Infectious Diseases Other Chemotherapeutics
7. Week	Cardiovascular System Drugs
8. Week	<b>MIDTERM</b>
9. Week	Respiratory System Medications
10. Week	Endocrine System Drugs
11. Week	Musculoskeletal System Drugs
12. Week	Digestive System Medicines
13. Week	Using medicine with care
14. Week	Pharmacovigilance
15. Week	<b>AN OVERVIEW</b>

**ECTS (Student Work-load Table)**

Activities	Number	Duration	Total Work Load
Length of course	14	2	28
Laboratory			
Practice			
Field Study			
Study time outside of classroom (Free-study/Group work/Pre-study)	14	2	28
Presentation (Video recording/Poster preparation/Focus Group Interview/Questionnaire/Observation and Writing reports)			
Seminar Preparation			
Project			
Case Study	1	10	10
Role-play			
Writing articles-Make criticals			
Time to prepare for midterm exams	1	6	6
Time to prepare for final exam	1	8	8
<b>Total Work Load (hour) / 25(h)</b>	80/25=3.2		
<b>Course ECTS</b>	<b>3</b>		

**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		
<b>Total Semester Work Load</b>	1	%40
<b>End-of-year Work Load</b>		
Final Exam	1	%60
Assignments		
Practice		
Laboratory		
<b>Total End-of-year Work Load</b>	1	%60
<b>TOTAL</b>	2	%100

**The relationship between learning outcomes and the program Outcomes of the courses**

Learning Outcomes		Program Outcomes													
		PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14
1	Basic concepts of pharmacology; knows the routes of administration of drugs, drug forms, pharmacokinetics and pharmacodynamics of drugs	5	5			5		5		5		3		4	4
2	Discuss the effects and side effects of drugs used in treatment	4	4	3	3	3		3		3		3		3	3
3	It can monitor the effects and side effects of the drugs administered to the patient. about pharmacology	4	4	3	3	3		3		3		3		3	4
4	Educating patients and families about drug therapy	4	3	3	3	3		3		3		3		3	3

5	Knows the nurse's duties and responsibilities in drug administration.	4	3	3	3	3		3		3		3		3	3
6	Can monitor new information	4	4	3	3	3		3		3		3		3	3
<b>Contribution to the level of proficiency: 1: Lowest, 2: Low/Medium, 3: Average, 4: High, 5: Excellent</b>															

#### SANKO University Faculty Of Health Sciences Deparent Of Nursing Program Outcomes

1. Have the knowledge and skills to fulfill their professional roles and functions.
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 profeciency 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 process in nursing practices.
10. Uses the management process in nursing practice.
11. Uses lifelong learning and career planning skills to contribute to professional development.
12. Uses problem solving and critical thinking skills to contribute to professional development.
13. With the awareness of social responsibility, takes part in research, projects and activities in cooperation with the health team and other disciplines.
14. Contributes to the provision and development of safe and quality health care.