

TOROS ÜNİVERSİTESİ

School Of Health Sciences
Nursing And Health Services

Course Information

PAIN AND ANALGESICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
HEM221	Fall	2	0	2	1

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Elective
Level of Course	Bachelor's
Lecturer	Dr. Harun Özmen
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	To learn about pain and pain theories and drugs used in pain treatment.
Contents of the Course	Pain, pain theories, concepts related to pain and analgesia, pain transmission, endogenous substances related to pain, pain pathways, drugs used in pain treatment, effect mechanisms and side effects.

Learning Outcomes of Course

#	Learning Outcomes
1	Know the definition of pain and general concepts about pain
2	Learn theories of pain, Ağrı ile ilgili endojen maddeleri bilir
3	Agri transmission of pain, Classify the pain, Learn pain pathways
4	Know the drugs and their mechanisms of action used in the treatment of pain

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Definition of pain, history and general concepts	Lecture, discussion
2	Peripheral mechanisms of pain	Lecture, discussion
3	Central Mechanics of Painting	Lecture, discussion
4	Inflammatory mediators and modulators	Lecture, discussion
5	Endogenous opioid peptides	Lecture, discussion
6	Transmission of pain	Lecture, discussion
7	Pain pathways	Lecture, discussion
8	Midterm	
9	Drugs used in pain treatment: Opioids	Lecture, discussion
10	Drugs used in pain treatment: Opioids	Lecture, discussion
11	Drugs used in pain treatment: Nonsteroidal anti-inflammatory drugs	Lecture, discussion
12	Drugs used in pain treatment: Nonsteroidal anti-inflammatory drugs	Lecture, discussion
13	Drugs used in pain treatment: Antidepressant analgesics	Lecture, discussion

14	Drugs used in pain treatment: Anticonvulsant analgesics	Lecture, discussion
15	Drugs used in pain treatment: Cannabinoids	Lecture, discussion
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Goodman and Gilman's The Pharmacologic Basis of Therapeutics		
2	Wall & Melzack's Textbook of Pain		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Know the definition of pain and general concepts about pain	2,3,8,12,13	1,2
2	Learn theories of pain, Ağrı ile ilgili endojen maddeleri bilir	2,3,6,8,12	1,2
3	Agri transmission of pain, Classify the pain, Learn pain pathways	2,4,6,13	1,2
4	Know the drugs and their mechanisms of action used in the treatment of pain	2,3,4,5,9,12,13	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	1	1
				60

