

School of Pharmacy / School of Pharmacy (English)

2024 - 2025 Academic Year

RATIONAL DRUG USE

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
RATIONAL DRUG USE	PHA5215592	Spring Semester	2+0	2	3
Prerequisites Courses	FARMAKOTERAPİ; KLİNİK ECZACILIK				
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Rashida Muhammad UMAR				
Name of Lecturer(s)	Assist.Prof. Rashida Muhammad UMAR				
Assistant(s)					
Aim	Provide undergraduate pharmacy students with a comprehensive understanding of appropriate, safe, and cost-effective medication use principles and practices. This course equips students with the knowledge and skills necessary to evaluate, select, and counsel on medications based on clinical evidence, patient-specific factors, and ethical considerations.				
Course Content	This course contains; Principles of Rational Drug Use, Drug Selection and Prescribing, Rational Use of Antibiotics, Rational Use of Drugs in Special Populations - Pediatric patients, Rational Use of Drugs in Special Populations - Geriatric patients, Rational Use of Drugs in Special Populations - Pregnant and lactating women, Rational use herbal products, Rational drug use in oncology patients, Drug use in Organ Dysfunction - Renal failure, Drug Use in Organ Failure - Hepatic failure, Students' project presentation, Students' project presentation, Students' project presentation.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
By the end of the course, students will be able to: Apply principles of rational drug use in clinical decision-making. Critically evaluate drug information and evidence. Recognize and mitigate medication errors and adverse effects. Advocate for rational drug use in diverse healthcare environments.				A, B, C, F	
Teaching Methods					
Assessment Methods			A: Traditional Written Exam, B: Short Answer Exam, C: Multiple-Choice Exam, F: Project Task		
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Principles of Rational Drug Use				
2	Drug Selection and Prescribing				
3	Rational Use of Antibiotics				
4	Rational Use of Drugs in Special Populations - Pediatric patients				
5	Rational Use of Drugs in Special Populations - Geriatric patients				
6	Rational Use of Drugs in Special Populations - Pregnant and lactating women				
7	Rational use herbal products				
8	Rational drug use in oncology patients				
9	Drug use in Organ Dysfunction - Renal failure				
10	Drug Use in Organ Failure - Hepatic failure				
11	Students' project presentation				
12	Students' project presentation				
13	Students' project presentation				
14	Students' project presentation				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
1. The course notes 2. WHO - Publications related to Rational Drug Use 3. Turkish Ministry of Health and TEB publications on Rational Drug Use