

**School of Pharmacy / School of Pharmacy (English)**

**2024 - 2025 Academic Year**

**RATIONAL DRUG USE**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
RATIONAL DRUG USE	PHA5115592	Fall Semester	2+0	2	3
<b>Prerequisites Courses</b>	FARMAKOTERAPİ; KLİNİK ECZACILIK				
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assist.Prof. Rashida Muhammad UMAR				
<b>Name of Lecturer(s)</b>	Assist.Prof. Rashida Muhammad UMAR				
<b>Assistant(s)</b>					
<b>Aim</b>	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.				
<b>Course Content</b>	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.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
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	
<b>Teaching Methods</b>					
<b>Assessment Methods</b>			A: Traditional Written Exam, B: Short Answer Exam, C: Multiple-Choice Exam, F: Project Task		
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
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				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

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