

## ECTS COURSE DESCRIPTION FORM

### PART I (Senate Approval)

Offering School	Antalya Bilim University			Offering Department	Physical Therapy and Rehabilitation		
Program(s) Offered to	Physical Therapy and Rehabilitation	<input type="checkbox"/>				<input type="checkbox"/>	
		<input type="checkbox"/>				<input type="checkbox"/>	
		<input type="checkbox"/>				<input type="checkbox"/>	
Course Name	Pharmacology			Course Code	FTR 421		
Level of Course	Undergraduate			Type of Course	Theoric		
Language of Instruction	Turkish			ECTS Credits	3		
Hours per Week	Lecture:	2	Practical:		Studio:		
	Laboratory:		Recitation:		Other:		
Pre-requisites	None			Co-requisites	None		
Registration Restriction	None			Grading Mode	Letter Grade		
Educational Objective	systems and the side effects of these drugs.						
Course Description	Basic concepts in pharmacology and toxicology, pharmacological properties and side effects of drugs affecting tissue and organ systems.						
Learning Outcomes	LO1	Explain the basic concepts of pharmacology, pharmacokinetics and pharmacodynamics terms.					
	LO2	Compares pharmacokinetic and pharmacodynamic drug interactions.					
	LO3	Discuss the general pharmacological properties of drugs affecting organ systems and the side effects of these drugs.					
	LO4	Knows the neurochemical properties of the central nervous system.					
	LO5	Learn the pharmacokinetic and pharmacodynamic properties of drugs affecting the central nervous system.					
	LO6	Learns the pathophysiology of pain and inflammatory diseases					
	LO7						

### PART II (Faculty Board Approval)

		Program Outcomes							
		LO1	LO2	LO3	LO4	LO5	LO6	LO7	
Basic Outcomes (University-wide)	PO1	Ability to communicate effectively and write and present a report in Turkish and English.	✓						
	PO2	Ability to work individually, and in intra-disciplinary and multi-disciplinary teams.							
	PO3	Recognition of the need for life-long learning and ability to access information, follow developments in science and technology, and continually reinvent oneself.	✓	✓	✓	✓	✓	✓	
	PO4	Knowledge of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.							
	PO5	Awareness of sectors and ability to prepare a business plan.							
	PO6	Understanding of professional and ethical responsibility and demonstrating ethical behavior.							
Faculty Specific Outcomes	PO7	Having universal thoughts and values	✓	✓	✓	✓	✓	✓	
	PO8	To be committed to academic and ethical values	✓	✓	✓	✓	✓	✓	
	PO9	To provide qualified education, research and consultancy services at universal information and technology standards	✓	✓	✓	✓	✓	✓	
	PO10	To be open to new goals, strategies and action plans that will take undergraduate and graduate education / training programs and scientific studies further	✓	✓	✓	✓	✓	✓	
	PO11	To support, maintain and increase interdisciplinary / multidisciplinary studies in the services provided.			✓				✓
	PO12	To contribute and develop health policies for the benefit of the country.							
Program Specific Outcomes	PO13	Explains the theoretical knowledge about basic medicine and clinical sciences with the main lines and relates them to physiotherapy.	✓	✓	✓	✓	✓	✓	
	PO14	Applies Physiotherapy and Rehabilitation assessment methods, analyzes and interprets theoretical knowledge by associating							
	PO15	Plans and implements the individual physiotherapy and rehabilitation program						✓	
	PO16	Records and archives assessment and treatment data							
	PO17	Plans, conducts and presents a scientific research	✓	✓	✓	✓	✓	✓	
	PO18	Has effective communication skills							
	PO19	Defines professional duties and responsibilities legally and applies them within the framework of ethical principles.	✓	✓	✓	✓	✓	✓	
	PO20	Has lifelong learning skills related to the profession	✓	✓	✓	✓	✓	✓	
	PO21	Can use foreign language effectively to follow professional developments							
	PO22	Knows and applies quality, occupational health and safety issues related to the profession							

**PART III (Department Board Approval)**

Course Contents, Contribution of Course Contents to Learning Outcomes, and Methods for Assessing Learning of Course Contents	Subject	Week	Details of Course Contents	LO1	LO2	LO3	LO4	LO5	LO6	LO7
	S1	1	General concepts such as pharmacology, medicine and sub-branches of pharmacology (Pharmacokinetics)	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S2	2	Sources and nomenclature of drugs,	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S3	3	Pharmaceutical forms	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S4	4	Pharmacokinetics (absorption, distribution, biotransformation, excretion) and pharmacodynamics	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S5	5	Factors that change the effects of drugs, routes of drug administration	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S6	6	Drug interactions Adverse effects of drugs	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S7	7	Autonomic nervous system and drugs	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S8	8	Midterm exam week	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S9	9	Central nervous system drugs: Opioid analgesics, Antipileptic drugs, Antidementia drugs, Antipsychotics	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S10	10	Drugs used in neurodegenerative diseases, Seizure management	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S11	11	General and local anesthetics; Muscle relaxants, Autocoids, Non-steroidal anti-inflammatory drugs (respiratory)	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S12	12	Drugs affecting the cardiovascular system, respiratory system, and immunology	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S13	13	Endocrine system drugs: Antidiabetic drugs,	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S14	14	Endocrine system drugs: Cardiovascular, vitamin D, drugs affecting mineral homeostasis in bones	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4

Assessment Methods, Weights in Grading Scheme, Implementation and Make-Up Rules	No	Type	Weight	Implementation Rule	Make-Up Rule
	A1	Exam-Final Jury, Final Project	60%	One final exam is applied. Exam dates are announced by the faculty.	ABU's relevant regulation is applied.
	A2	Quiz			
	A3	Homework			
	A4	Midterm	40%	1 midterm exam (visa) is applied. Exam dates are announced by the faculty	ABU's relevant regulation is applied.
	A5	Project			
	A6	Presentation			
	A7	Attendance/Interaction			
	A8	Field Work			
	A9	Others			
<b>TOTAL</b>			<b>100%</b>		

**Evidence of Achievement of Learning Outcomes** At least one question from each subject is asked during the exams. A weighted average is calculated for each student based on the percentage of each assessment method. Students are required to collect a minimum score over 100, which is announced by the instructor, to pass the course. This score is determined based on class average.

Method for Determining Letter Grade	Direct Conversion System ("DDS" in the regulation.)	<input checked="" type="checkbox"/>	Relative Evaluation ("BDS" in the regulation.)	<input type="checkbox"/>	
	A different method/system, not listed above, determined by the Faculty Member / Instructor (This method is explained below)				<input type="checkbox"/>
		Success Grade Range	Letter Success Note	Success Coefficient	Success Assessment
	95-100	A+	4,00	Successful	
	85-94	A	4,00	Successful	
	80-84	A-	3,70	Successful	
	75-79	B+	3,30	Successful	
	70-74	B	3,00	Successful	
	65-74	B-	2,70	Successful	
	60-64	C+	2,30	Successful	
	55-59	C	2,00	Successful	
	50-54	C-	1,70	Passes	
	45-49	D+	1,30	Unsuccessful	
	40-44	D	1,00	Unsuccessful	
	0-39	F	0	Unsuccessful	

Teaching Methods, Student Work Load	No	Method	Explanation	Total Hours			
	<b>Time expected to be allocated by instructor</b>						
	1	Lecture	Lesson topics are explained by writing on the board or with a computer presentation. Sample questions are solved during the lesson.	28			
	2	Interactive Lecture					
	3	Recitation					
	4	Laboratory					
	5	Practical					
	6	Field Work					
	<b>Time expected to be allocated by student</b>						
	7	Project					
	8	Homework					
	9	Pre-class Learning of Course Material	New topics are learned before being taught in the classroom.	25			
	10	Review of Course Material	Topics are repeated to prepare for exams and assignments.	25			
11	Studio						
12	Office Hour						
<b>Calculated ECTS Credit(s)</b>		<b>Max.</b>	<b>3</b>	<b>Min.</b>	<b>2</b>	<b>Grand Total</b>	<b>78</b>

**IV. PART**

<b>Instructor</b>	<b>Name Surname</b>	
	<b>E-mail</b>	
	<b>Phone Number</b>	
	<b>Office Number</b>	
	<b>Office Hours</b>	
<b>Course Materials</b>	<b>Mandatory</b>	
	<b>Recommended</b>	S. O. Kayaalp - Akılcı Tedavi Yönünden Tıbbi Farmakoloji (13.baskı, 2012) Goodman & Gilman's The Pharmacological Basis of Therapeutics (13th edition) Reviews: Farmakoloji (Üçüncü Baskı)
<b>Other</b>	<b>Scholastic Honesty</b>	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. It is explained in Article 25 of the Directive on Associate and Undergraduate Programs of Antalya Bilim University.
	<b>Students with Disabilities</b>	Reasonable accommodations will be made for students with verifiable disabilities.
	<b>Safety Issues</b>	The course does not require any special security measures.
	<b>Flexibility</b>	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.

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