

## 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	Biomechanics and Kinesiology I (Compulsory)		Course Code	FTR 231		
Level of Course	Undergraduate		Type of Course	Theoric, Pratical		
Language of Instruction	Turkish		ECTS Credits	3		
Hours per Week	Lecture:	2	Practical:	1	Studio:	
	Laboratory:		Recitation:		Other:	
Pre-requisites	None		Co-requisites	None		
Registration Restriction	None		Grading Mode	Letter Grade		
Educational Objective	Movement and mechanical principles, Mechanical properties and pathomechanics of bone, muscle, colla-gen and cartilage tissue, Properties of body joints, Balance,					
Course Description	Movement and mechanical principles, biomechanics and pathomechanics of bone, muscle, collagen, car-tilage and soft tissue, general mechanical properties of body joints, balance, orientation planes and coor-dinates, and normal and pathological walking are covered in the course.					
Learning Outcomes	LO1	Describes the subjects within the scope of kinesiology and biomechanics and gains the awareness that it forms the basis of physiotherapy.				
	LO2	Classes the mechanical principles related to motion and learns to use these principles in the analysis of human movements.				
	LO3	Defines the mechanical and pathomechanics of bone, muscle, cartilage and collagen tissue, and gains the ability to question and analyze the possible risks that may				
	LO4	Interprets the functions and mechanics of the body joints and the mechanisms of joint problems, develops practical problem solving skills by selecting the				
	LO5	Defines the information about balance, weight transfer and orientation planes, gains the ability to organize and use this information in physiotherapy applica-tions.				
	LO6	Define normal and pathological gait characteristics and analysis, list compen-sation mechanisms; physiotherapy in pathologies where gait is affected				

### 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	Introduction to kinesiology: Movement and mechanical principles	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S2	2	Mechanics of bone, laws of bone and loading principles	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S3	3	Fascia	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S4	4	Classification of body joints, sliding and rocking motion	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S5	5	Muscle biomechanics	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S6	6	Skeletal muscles of the human body	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S7	7	How do work skeletal muscles of the human body?	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	
	S9	9	The task of the muscles	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S10	10	Determine the strength of muscles	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S11	11	Neuromuscular control	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S12	12	Posture and gait cycle	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S13	13	Common Postural and gait problems	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	
	S14	14	Kinesiological overview of exercises	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	Class/Lab./			
	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-	3,70	Successful
		80-84	B+	3,30	Successful
		75-79	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	The application, using various documents, models and presentations, includes lectures.	14			
	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.	28			
	10	Review of Course Material	Topics are repeated to prepare for exams and assignments.	28			
	11	Studio					
	12	Office Hour	One-on-one meeting with the faculty member				
Calculated ECTS Credit(s)		Max.	3	Min.	3	Grand Total	98

**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>	Soderberg GL. Kinesiology. Second Edition. William&Wilkins a Waverly Company, Baltimore Lippert LS. Clinical Kinesiology and Anatomy. Fourth Edition. F. A. Davis Company, USA, Levangie PK, Norkin CC. Joint Structure and Function: a Comprehensive Analysis. Fourth Smidt GL. Gait in Rehabilitation. Churchill Livingstone Inc. New York, Edinburgh, Melbourne.
	<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>Other</b>	<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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