

**ECTS COURSE DESCRIPTION FORM**

**PART I (Senate Approval)**

<b>Offering School</b>	Antalya Bilim University		<b>Offering Department</b>	Physical Therapy and Rehabilitation	
<b>Program(s) Offered to</b>	Physical Therapy and Rehabilitation	<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
<b>Course Name</b>	Heat-Light and Hydrotherapy (Compulsory)		<b>Course Code</b>	FTR 227	
<b>Level of Course</b>	Undergraduate		<b>Type of Course</b>	Theoric, Pratical	
<b>Language of Instruction</b>	Turkish		<b>ECTS Credits</b>	3	
<b>Hours per Week</b>	Lecture:	1	Practical:	2	Studio:
	Laboratory:		Recitation:		Other:
<b>Pre-requisites</b>	None		<b>Co-requisites</b>	None	
<b>Registration Restriction</b>	None		<b>Grading Mode</b>	Letter Grade	
<b>Educational Objective</b>	Review and sample applications of superficial temperature modalities and hydrotherapy methods used in physiotherapy and rehabilitation				
<b>Course Description</b>	Evaluation of pain physiology and parameters (type, severity, frequency, localization, pattern, style rea-sons), inflammation, soft tissue healing process, effects of immobilization, degeneration and regeneration processes; Review of superficial hot (infrared, hot pack, fluidotherapy, paraffin, ultraviolet etc.), cold ap-plications (ice massage, cryotherapy, cold pack etc.), laser and hydrotherapy (opposite bath, pools, whirl-pool, hot springs) methods used in physiotherapy and rehabilitation and Basic knowledge and application methods on physical principles, physiological effects, application methods, indications, contraindications and dangers with sample applications are covered within the scope of the course with examples.				
<b>Learning Outcomes</b>	<b>LO1</b>	Defines the physical and physiological effects of superficial heat modalities and problem solves.			
	<b>LO2</b>	Explains the physical and physiological effects of Infrared, Laser, UVL, helyo-terapi and cold applications, determines and apply the indication and contrain-			
	<b>LO3</b>	Explains the objectives, basic concepts and the physiological effects of hyd-rotherapy			
	<b>LO4</b>	Describes the physiological effects ,the application methods and application areas of moist heat applications, water applications with mechanical stimula-tion,			
	<b>LO5</b>	Explains the physiological effects, application methods and application areas of spa therapy, pool therapy and water exercises			
	<b>LO6</b>	Explains and uses the objectives and application methods of the tests used hydrotherapy apply.			

**PART II (Faculty Board Approval)**

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

PO22	Knows and applies quality, occupational health and safety issues related to the profession			✓	✓					✓	
<b>PART III (Department Board Approval)</b>											
<b>Course Contents, Contribution of Course Contents to Learning Outcomes, and Methods for Assessing Learning of Course Contents</b>	<b>Subject</b>	<b>Week</b>	<b>Details of Course Contents</b>	<b>LO1</b>	<b>LO2</b>	<b>LO3</b>	<b>LO4</b>	<b>LO5</b>	<b>LO6</b>	<b>LO7</b>	
	S1	1	Inflammation and repair	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S2	2	Pain theory and physiotherapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S3	3	Physical features of heat and light, Physiological impact of superficial heat modalities	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S4	4	Infraruj	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S5	5	Ultraviolet and heliotherapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S6	6	Laser	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S7	7	Cold therapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S8	8	Midterm Exam Week (Theoretical and Practical)	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S9	9	Physical and physiological principles in hydrotherapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S10	10	Water applications with mechanical stimulation	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S11	11	Moist heat methods and fluidotherapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S12	12	Practical training	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S13	13	Pool therapy and aquatic exercises	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S14	14	Spa treatment in physical therapy, tests used in hydrotherapy	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
<b>Assessment Methods, Weights in Grading Scheme, Implementation and Make-Up Rules</b>	<b>No</b>	<b>Type</b>		<b>Weight</b>	<b>Implementation Rule</b>			<b>Make-Up Rule</b>			
	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>							
<b>Evidence of Achievement of Learning Outcomes</b>	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.										
<b>Method for Determining Letter Grade</b>	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"/>			
			<b>Success Grade Range</b>	<b>Letter Success Note</b>	<b>Success Coefficient</b>	<b>Success Assessment</b>					
			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						
<b>Teaching Methods, Student Work Load</b>	<b>No</b>	<b>Method</b>			<b>Explanation</b>			<b>Total Hours</b>			
	<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.			14			
	2	Interactive Lecture									
	3	Recitation									
	4	Laboratory									
	5	Practical			The application, using various documents, models and presentations, includes lectures.			28			
	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										
<b>Calculated ECTS Credit(s)</b>				<b>Max.</b>	<b>3</b>	<b>Min.</b>	<b>2</b>	<b>Grand Total</b>		<b>84</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>	<p>Kayıhan H, Dolunay N. 'Isı-Işık Su' H.Ü. Fizik Tedavi ve Rehabilitasyon YO Yayınları Ankara</p> <p>Scully RM, Barnes MR. 'Physical Therapy' Philadelphia, 1989.</p> <p>Prentice WE. 'Therapeutic Modalities in Sport Medicine', 1990.</p> <p>Campion MR. 'Adult Hydrotherapy' Heinemann Medical Books, Oxford 1990.</p>
	<b>Scholastic Honesty</b>	<p>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.</p>
	<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.

Form No: ÜY-FR-1047 Yayın Tarihi 01.04.2021 Değ. No 0 Değ. Tarihi-