ECTS COURSE DESCRIPTION FORM														
		PART I (Sena	Offering		DI : 17	71								
Offering School		m University	Physical Therapy and Rehabilitation											
Program(s) Offered to	Physical The	erapy and Rehabilitation												
Course Name	Electrothers	apy I (Compulsory)		Course	oho.	FTR 225								
Level of Course	Undergradu		Course Code FTR 225 Type of Course Theoric, Pratical											
Language of Instruction	Turkish		ECTS Credits 4											
Hours per Week	Lecture:	1	3		Studio:	Studio:								
Trouis per Ween	Laboratory:				Other:									
Pre-requisites	None		Co-requisites None											
Registration Restriction	None		Grading Mode Letter Grade											
Educational Objective	To examine the electrophysical principles of electrotherapy, the responses of tissues to electrotherapy modes commonly used in physiotherapy, and to teach the mechanisms of action and application methods of low and medium frequency currents													
Course Description	The indications, contraindications, usefulness and application forms of electrotherapeutic and electrophysical agents (iontopho-resis, TENS, interferential currents, pharyngeal stimulation, high voltage galvanic stimulation, neuromuscular electrical stimu-lation, electrical muscle stimulation, biofeedback, etc.) that will support of evidence based physiotherapy and rehabilitation program and interpretation of the electrophysiological responses of injured peripheral nerves will educate in the													
	LO1 Learning the electrical properties of tissues LO2 Understanding the ctimulation principles of muscle and parve													
Lagrantic C. (LO2 Understanding the stimulation principles of muscle and nerve LO3 It is expected to gain knowledge and skills about low and medium frequency currents													
Learning Outcomes	LO4 LO5	L04												
	LOS LO6													
	1	PART II (Faculty)	Board Approva					I						
	PO1	Program Outcomes Ability to communicate effectively and write and present a re	eport in Turkish	LO1	LO2	LO3	LO4	LO5	LO6	LO7				
	PO2	and English. Ability to work individually, and in intra-disciplinary and muteams.	ılti-disciplinary		√									
Basic Outcomes	PO3	Recognition of the need for life-long learning and ability to a follow developments in science and technology, and continual			✓									
(University-wide)	PO4	Knowledge of project management, risk management, innova management, entrepreneurship, and sustainable developmen	✓											
	PO5	Awareness of sectors and ability to prepare a business plan.												
	PO6	Understanding of professional and ethical responsibility and ethical behavior.	✓	✓	✓									
	PO7	Having universal thoughts and values		✓										
Faculty Specific Outcomes	PO8	To be committed to academic and ethical values	✓											
	PO9	To provide qualified education, research and consultancy ser information and technology standards	✓											
	PO10	To be open to new goals, strategies and action plans that will and graduate education / training programs and scientific str	✓	✓	✓									
	PO11	To support, maintain and increase interdisciplinary / multidithe services provided.	✓											
	PO12	To contribute and develop health policies for the benefit	✓											
Program Specific Outcomes	PO13	Explains the theoretical knowledge about basic medicine and with the main lines and relates them to physiotherapy.	clinical sciences	✓	✓	✓								
	PO14	Applies Physiotherapy and Rehabilitation assessment method interprets theoretical knowledge by associating	✓	✓	✓									
	PO15	Plans and implements the individual physiotherapy and reha	✓	✓	✓									
	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 ap the framework of ethical principles.	✓	✓										
	PO20	Has lifelong learning skills related to the profession	✓	✓										
	PO21	Can use foreign language effectively to follow professional de	✓	✓										
	PO22	Knows and applies quality, occupational health and safety iss profession	✓	✓										

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	Subject	Week		Details	of Course Cont	tents		LO1	LO2	LO3	LO4	LO5	LO6	LO7	
	S1	1	Electrophysical and thermal principles					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S2	2	Electrical properties of cells and tissues					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S3	3													
	33	3	Properties of straight currents, Iontophoresis technique					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S4	4 Medical and surgical galvanism techniques													
Course Contents,	S5	5	Sensory and motor nerve activations, stimulation effects in					A1/A4 n A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4		
Contribution of Course Contents to Learning Outcomes, and Methods for Assessing Learning of Course Contents	S6	6	Modified forms of straight Galvanic current, Heat, and					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S7	7	Faradic current applications					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	High Voltage Pulsed Galvanic Current					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S10	10	Physiology of Pain, Mechanisms of TENS and its application					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S11	11	Physiology of Pain, Mechanisms of TENS and its						. 1/2.4	. 1 / 1 4	4.1/4.4	41/44	4.1/4.4		
	S12	12	application Diadinamic current					A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4	A1/A4 A1/A4		
	S13	13	Interferential current					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4		
	S14	14	Microcurrent, Ultra-reiz and Russian Currents												
	No		Type				Weight	A1/A4	A1/A4 lementatio	A1/A4	A1/A4	A1/A4 Make-U	A1/A4 In Rule		
	NO	туре					weight	Шр	Implementation Rule			Make-op Kuk			
	A1	Exam-Final Jury,Final Project					60%		One final exam is applied. Exam dates are announced by the faculty.			J's relevant regulation is applied.			
	A2	Quiz													
Assessment Methods,	A3	Homework													
Weights in Grading Scheme, Implementation and Make-Up Rules	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 Attendence/Interaction													
	A7 A8														
	A9														
			TOTAL	OTAL 100%											
Evidence of Achievement of Learning Outcomes		uestion from each sub lect a minimum scor											ethod. Stude	nts are	
9 - 111	Direct Conversion System ("DDS" in the regulation.) Relative Evaluation ("BDS" in														
		A different metl		e, determined by t	he Fa	aculty Member	/ Instructor (This method	is explained						
		Success Rans			E Letter Succ Note	ess	Success Coefficient	Success Asse	ssment						
	95-100 85-94 80-84 75-79 65-74 60-64 55-59 50-54			***************************************	A+ A		4,00 4,00	Successful Successful							
Method for Determining				35-94	A-		3,70	Successful							
Letter Grade					B+		3,30	Successful Successful							
				5-74	B-		2,70	Successful							
					C +		2,30	Successful Successful	iuccessful						
					C- D+		1,70 1,30	Passes Unsuccessful							
			4	0-44	D		1,00	Unsuccessful							
		ı	0)-39	F		0	Unsuccessful	•						
	No			Method		ecte	d to be alloca	ted by instr		anation		1	Total Hours	5	
Teaching Methods, Student Work Load	1	Time expected to be allocat Lecture						Lesson to on th preser	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										<u> </u>			
	3	Recitation													
	4	Laboratory													
	5	Practical							The application, using various documents, models and presentations, includes lectures.				42		
	6	Field Work										<u> </u>			
		Time expected to be allocated by student													
	7 8	Project Homework													
									New topics are learned before being				28		
	10	Pre-class Learning of Course Material Review of Course Material							taught in the classroom. Topics are repeated to prepare for exams and assignments.				28		
	11	Studio exams and assignment of the control of the c							giiiikii						
	12	Office Hour						One-or	One-on-one meeting with the faculty						
										mber	1 m : :	ļ	4.4		
	Calculated ECTS Credit(s) Max. 4							Min	. 3	Gran	d Total		112		

	IV. P	ART					
	Name Surname						
Instructor	E-mail						
	Phone Number						
	Office Number						
	Office Hours						
	Mandatory						
Course Materials	Recommended	Nuray Kırdı, Nihal Şimşek, Aydın Meriç, Çiğdem Ayhan, Özlem Yürük (Ed.) ?Elektroterapide Temel Prensipler ve Klinik Uygulamalar? Ankara, Hipokrat,2016. John Low, Ann Reed "Electrotherapy explained: principles and practice" Oxford, 2004. Shelia Kitchen "Electrotherapy: evidence-based practice"Edinburg, 2002. Theresa Nalty. "Electrotherapy clinical procedures manual" New York, 2001. Steven L. Wolf,					
Other	Scholastic Honesty	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricatin information or citations, facilitating acts of dishonesty by others, having unauthorized possess of examinations, submitting work of another person or work previously used without informin the instructor, or tampering with the academic work of other students. Any for of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. It is explaine Article 25 of the Directive on Associate and Undergraduate Programs of Antalya Bilim University.					
	Students with Disabilities	Reasonable accommodations will be made for students with verifiable disabilities.					
	Safety Issues	The course does not require any special security measures.					
	Flexibility	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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