

Vocational School / Physiotherapy
2023 - 2024 Academic Year
ELECTROPHYSICAL AGENTS
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ELECTROPHYSICAL AGENTS	FZT1263220	Spring Semester	1+4	3	6
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Merve MANGA				
Name of Lecturer(s)	Lect. Fatma ÖZTÜRK, Assist.Prof. Sümeyye TUNÇ				
Assistant(s)					
Aim	Course Objective To determine the electrotherapeutic agents, to plan the application forms and problem solutions.				
Course Content	This course contains; Introduction,Flat current, iontophoresis,Medical galvanism, electrical safety applications,TENS (transcutaneous electrical stimulation), Faradic Current, Sinusoidal Current,Application forms of current,Russian current,Interferential current,Ultrasound,Short wave diathermy, Microwave diathermy,Diadynamic current,Application forms of current,High-voltage galvanic current,Micro Current,Overview.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Ability to discuss application techniques and their effects, electrical safety control in physiotherapy			16, 9	A	
Ability to evaluate high frequenct currents, acoustic radiation, ultrasound application			16, 6, 8, 9	A	
Ability to evaluate short, long wave diatermy currents' properties and effects			16, 6, 8, 9	A	
Ability to evaluate the physical and physiological effects of direct currents used in electrotherapy.			16, 6, 8, 9	A	
Ability to describes the acquisition of a direct current.Ability to describe the applications of iontophoresis.			16, 6, 8, 9	A	
Teaching Methods	16: Question - Answer Technique, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction	Mebis notes			
2	Flat current, iontophoresis	Mebis notes			
3	Medical galvanism, electrical safety applications	Mebis notes			
4	TENS (transcutaneous electrical stimulation), Faradic Current, Sinusoidal Current	Mebis notes			
5	Application forms of current	Mebis notes			
6	Russian current	Mebis notes			
7	Interferential current	Mebis notes			
8	Ultrasound	Mebis notes			
9	Short wave diathermy, Microwave diathermy	Mebis notes			
10	Diadynamic current	Mebis notes			
11	Application forms of current	Mebis notes			
12	High-voltage galvanic current	Mebis notes			
13	Micro Current	Mebis notes			
14	Overview	Mebis notes			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Physical Modalities and Electrotherapy, Özdingler A., Istanbul Medicine Bookstore 2014