

Vocational School of Health Services / Electroneurophysiology
2023 - 2024 Academic Year
OTHER ELECTROPHYSIOLOGICAL EXAMINATIONS (TMS, DCS)
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
OTHER ELECTROPHYSIOLOGICAL EXAMINATIONS (TMS, DCS)	EFZ2226910	Spring Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Nagihan MANTAR				
Name of Lecturer(s)	Assist.Prof. Nagihan MANTAR				
Assistant(s)					
Aim	It is expected that other electrophysiologic techniques know what they are, how they work, their indications and contraindications, and the technical equipment they need.				
Course Content	This course contains; 1. Transcranial Direct current stimulation (DSC) theoretical expression,2. Transcranial Magnetic stimulation (TMS) theoretical expression,3. Transcranial Magnetic stimulation (TMS)practical application,4. Transcranial Magnetic stimulation (TMS) practical application,5. Transcranial Direct current stimulation (DSC) practical application,6. tDCS Practice,7. Transcranial Direct current stimulation (DSC) practical application,8. Electroconvulsive Treatment (ECT) theoretical expression,9. Electroconvulsive Treatment (ECT) practical application,10.Electroconvulsive Treatment (ECT) practical application,11.Intraoperative Monitoring.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. To define other electrophysiological techniques (such as DCS, ECT, TMS etc.)			16, 6, 9	A	
2. To define the working principles and technical equipment of these electrophysiological techniques			16, 6, 9	A	
3. To define the indications and contraindications of these electrophysiological techniques			16, 6, 9	A	
Teaching Methods	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	1. Transcranial Direct current stimulation (DSC) theoretical expression				
2	2. Transcranial Magnetic stimulation (TMS) theoretical expression				
3	3. Transcranial Magnetic stimulation (TMS)practical application				
4	4. Transcranial Magnetic stimulation (TMS)practical application				
5	5. Transcranial Direct current stimulation (DSC) practical application				
6	6. tDCS Practice				
7	7. Transcranial Direct current stimulation (DSC) practical application				
8	8. Electroconvulsive Treatment (ECT) theoretical expression				
9	9. Electroconvulsive Treatment (ECT) practical application				
10	10.Electroconvulsive Treatment (ECT) practical application				
11	11.Intraoperative Monitoring				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources	
Lecturer's own notes1)Akyüz G, Yağcı İ. Elektrodiagnostik - Elektromiyografi, Uyandırılmış Potansiyeller, Elektroensefalografi. İstanbul 2003.	
2) Kısa C. Elektrokonvulsif Tedavi. İstanbul 2011.	
3) Duffau H. Brain Mapping: From Neural Basis of Cognition to Surgical Applications.France 2011.	