

**Vocational School / 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
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assist.Prof. Nagihan MANTAR				
<b>Name of Lecturer(s)</b>	Assist.Prof. Nagihan MANTAR				
<b>Assistant(s)</b>					
<b>Aim</b>	It is expected that other electrophysiologic techniques know what they are, how they work, their indications and contraindications, and the technical equipment they need.				
<b>Course Content</b>	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.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
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	
<b>Teaching Methods</b>	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
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				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
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.	