

Vocational School / Electroneurophysiology
2024 - 2025 Academic Year
NEUROLOGICAL DISEASES and ELECTRONEUROPHYSIOLOGY
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
NEUROLOGICAL DISEASES and ELECTRONEUROPHYSIOLOGY	EFZ2210904	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	Assoc.Prof. Özge ARICI DÜZ				
Name of Lecturer(s)	Assoc.Prof. Nesrin HELVACI YILMAZ				
Assistant(s)					
Aim	The purpose of this lecture is the teaching about using electroneurophysiological methods in the diagnosis and treatment of neurological diseases.				
Course Content	This course contains; Somatosensory Pathways ,Somatosensory evoked potentials (SEP),SEP and neurological diseases,The visual pathway,Visual evoked potentials (VEP),VEP and neurological diseases,The auditory pathways,Brain auditory evoked potentials (BAEP),BAEP and neurological diseases,Anatomy of motor ascending and descending tracts,Motor evoked potentials (MEP),MEP and neurological diseases,Polysomnography and neurological diseases,EEG and neurological diseases.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
At the end of this course, the student will learn the importance of electroneurophysiological methods in the diagnosis and treatment of neurological diseases and will be able to explain their applications.			16, 9	A	
Learning the diagnoses of neurological diseases.			9	A, H	
Learning the treatments of neurological diseases.			16, 9	A	
At the end of this course, the student will be able to perform the desired examinations (according to the disease) according to the protocol for the patient who comes for imaging.			6, 9	A, D, E	
Teaching Methods	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework, H: Performance Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Somatosensory Pathways	Lecture Notes			
2	Somatosensory evoked potentials (SEP)	Lecture Notes			
3	SEP and neurological diseases	Lecture Notes			
4	The visual pathway	Lecture Notes			
5	Visual evoked potentials (VEP)	Lecture Notes			
6	VEP and neurological diseases	Lecture Notes			
7	The auditory pathways	Lecture Notes			
8	Brain auditory evoked potentials (BAEP)	Lecture Notes			
9	BAEP and neurological diseases	Lecture Notes			
10	Anatomy of motor ascending and descending tracts	Lecture Notes			
11	Motor evoked potentials (MEP)	Lecture Notes			
12	MEP and neurological diseases	Lecture Notes			
13	Polysomnography and neurological diseases	Lecture Notes			
14	EEG and neurological diseases	Lecture Notes			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Instructor's lecture notes