

Vocational School / Electroneurophysiology

2024 - 2025 Academic Year

ELECTROMYOGRAPHY II

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ELECTROMYOGRAPHY II	EFZ2210903	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. Fikret AYSAL				
Name of Lecturer(s)	Assoc.Prof. Fikret AYSAL				
Assistant(s)					
Aim	The purpose of this lecture is the teaching of motor nerve conduction studies, sensory nerve conduction studies, late responses, evoked potentials SEP-VEP-BAEP, autonomic nervous system anatomy, and repetitive nerve stimulation test to the students.				
Course Content	This course contains; Autonomic nervous system, Autonomic Testing Using an EMG System, Sensory Nerve Conduction Studies In The Upper Limb, Sensory Nerve Conduction Studies In The Lower Limb, Motor Nerve Conduction Studies In The Upper Limb, Motor Nerve Conduction Studies In The Lower Limb, Soleus and Flexor carpi radialis H-reflex studies, Median, Ulnar and Tibial nerves F wave assessment, Repetitive Nerve Stimulation Test - Abductor digiti minimi, Repetitive Nerve Stimulation Test - Nasalis, Repetitive Nerve Stimulation Test - Orbicularis Oculi, Repetitive Nerve Stimulation Test - Trapezius, Evoked Potentials: BAEP-SEP-VEP, Focal Peripheral Neuropathy .				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Summarize the basic nerves of the peripheral nervous system			16, 6, 8, 9	A	
Explain sensory and motor conduction nerve studies in the upper extremity			16, 6, 8, 9	A	
Explain sensory and motor conduction nerve studies in the lower extremity			16, 6, 8, 9	A	
Explain repetitive nerve stimulation test			16, 6, 8, 9	A	
Summarizes late response studies			16, 6, 8, 9	A	
Explain evoked potentials; BAEP-SEP-VEP			16, 6, 8, 9	A	
Summarizes the peripheral neuropathy			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					
Sequence	Topics	Preliminary Preparation			
1	Autonomic nervous system	Lecture Notes			
2	Autonomic Testing Using an EMG System	Lecture Notes			
3	Sensory Nerve Conduction Studies In The Upper Limb	Lecture Notes			
4	Sensory Nerve Conduction Studies In The Lower Limb	Lecture Notes			
5	Motor Nerve Conduction Studies In The Upper Limb	Lecture Notes			
6	Motor Nerve Conduction Studies In The Lower Limb	Lecture Notes			
7	Soleus and Flexor carpi radialis H-reflex studies	Lecture Notes			
8	Median, Ulnar and Tibial nerves F wave assessment	Lecture Notes			
9	Repetitive Nerve Stimulation Test - Abductor digiti minimi	Lecture Notes			
10	Repetitive Nerve Stimulation Test - Nasalis	Lecture Notes			
11	Repetitive Nerve Stimulation Test - Orbicularis Oculi	Lecture Notes			
12	Repetitive Nerve Stimulation Test - Trapezius	Lecture Notes			
13	Evoked Potentials: BAEP-SEP-VEP	Lecture Notes			
14	Focal Peripheral Neuropathy	Lecture Notes			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources	
Instructor's lecture notes	
1) Ertekin C. Santral ve Periferik EMG Anatomi-Fizyoloji-Klinik. İzmir 2006. 2) Bingöl AC, Çelik M, Gürtekin Y. Klinik nörofizyoloji laboratuvarları uygulama el kitabı. Türkiye Nörofizyoloji EEG-EMG Derneği İstanbul Şubesi. 1. baskı, İstanbul 2006. 3) Daube JR, Rubin DI. Clinical Neurophysiology, third edition. Oxford University press 2009.	