

Vocational School / Electroneurophysiology
2023 - 2024 Academic Year
ELECTROMYOGRAPHY I
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ELECTROMYOGRAPHY I	EFZ2163180	Fall Semester	2+0	2	5
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	Neuroanatomophysiology, motor conduction studies, sensory conduction studies, needle EMG and electrophysiology learned				
Course Content	This course contains; Peripheral Nervous System: Upper Limb, Peripheral Nervous System: Lower Limb, Anatomophysiology of peripheral nervous system, Introduction to Electrophysiology, Electromyography (EMG) Laboratory, Electrodes and Equipment, Artefacts, Sensory Nerve Conduction Studies, Motor Nerve Conduction Studies, Late Responses: F-Waves, Late Responses: H-Reflexes, Needle electromyography, Conduction block, The Eye Blink Reflex, Autonomic Tests.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Ability to perform needle EMG and electrophysiological tests.			16, 37, 5, 6, 9	A, D	
To define engine conduction operation.			16, 6, 9	A, D, E	
To define a sensory message study.			16, 6, 9	A, D, E	
Defining neuroanatomophysiology.			9	A, E	
Teaching Methods	16: Question - Answer Technique, 37: Computer-Internet Supported Instruction, 5: Cooperative Learning, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Peripheral Nervous System: Upper Limb	Lecture Notes			
2	Peripheral Nervous System: Lower Limb	Lecture Notes			
3	Anatomophysiology of peripheral nervous system	Lecture Notes			
4	Introduction to Electrophysiology	Lecture Notes			
5	Electromyography (EMG) Laboratory, Electrodes and Equipment	Lecture Notes			
6	Artefacts	Lecture Notes			
7	Sensory Nerve Conduction Studies	Lecture Notes			
8	Motor Nerve Conduction Studies	Lecture Notes			
9	Late Responses: F-Waves	Lecture Notes			
10	Late Responses: H-Reflexes	Lecture Notes			
11	Needle electromyography	Lecture Notes			
12	Conduction block	Lecture Notes			
13	The Eye Blink Reflex	Lecture Notes			
14	Autonomic Tests	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.