FTR300 - Neurological Rehabilitation

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)		ECTS
Neurologıcal Rehabılıtatıon	FTR 300	6. Semester/2.Term Spring	3	2	-		3
Prequisites							
Course language	Turkish						
Course type	Compulsory						
Learning and teaching strategies	Lecture, Demonstration, case discussion						
Instructor (s)							
Course objective(Aim of course)	To ensure comprehending of, clinical characteristics of neurological diseases, mechanism formations of symptoms and signs that reveal in human body, measurement and assessment methods that used in neurological rehabilitation, application of neurophysiologic based techniques according to the case characteristics, to improve clinical decision making and problem solving skills in neurologic rehabilitation.						
Learning outcomes	1. Describes the neurologic diseases characteristics. 2. Classifies the diseases according to central and peripheral nervous system characteristics and describe the clinical properties of upper and lower motor neuron and Comprehends the neurophysiologic based measurement and assessment methods 3. Describes the effects of neurologic diseases on body functions, activity and participation; plan the treatment program in the process of clinical decision-making. 4. Select the neurophysiologic-based treatment program that appropriate for disease and apply basic level						
References	. Nörolojik rehabilitasyon : (sinir sistemi hastalıklarında tanı - tedavi ve rehabilitasyon) / editör Turgut Göksoy, İstanbul: Yüce Yayın. - Fizyoterapi ve rehabilitasyon : nörolojik rehabilitasyon kardiyopulmoner rahabilitasyon 3 / editörler Ayşe Karaduman, Öznur Tunca Yılmaz ; yardımcı editörler ve yayın kurulu Burcu Semin Akel, Çiğdem Öksüz, Özlem Ülger, Tüzün Fırat, Ankara Pelikan Yayıncılık, 2016. - Nörolojik Hastalıkların Rehabilitasyonu / editör Turgut Göksoy, İstanbul: İstanbul Tıp Kitapevi, 2017						

Course outline weekly:

Weeks	Topics
1. Week	Introduction to Neurological Rehabilitation and functional neuroanatomy
2. Week	Pathophysiology of spasticity, assessment and inhibitory methods
3. Week	Characteristics and mechanism formation of spinal cord injuries
4. Week	Clinical characteristics of complete and incomplete spinal cord injuries according to the levels and treatment methods
5. Week	Components of normal movements and description, pathophysiology, assessment methods of ataxia
6. Week	Neurophysiologic based treatment methods and applications specific for ataxia type.
7. Week	Clinical characteristics of multiple sclerosis, Measurement- assessment methods and rehabilitation of multiple sclerosis.
8. Week	Midterm Exam
9. Week	Rehabilitation methods of multiple sclerosis Clinical characteristics and measurement -assessment methods of Parkinson Disease
10. Week	Rehabilitation methods in Parkinson disease.
11. Week	Peripheral neuropathies and rehabilitation
12. Week	Neuromuscular diseases and rehabilitation.
13. Week	disc herniations and rehabilitation.
14. Week	Subarachnoid hemorrhage, head injuries, spinal and intracranial tumors and rehabilitation
15. Week	An overview

ECTS (Student Work Load Table)

Activities	**Number**	**Duration**	**Total Work Load**
Course Duration (X14)	14	3	42
Laboratory			
Practice	14	2	28
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	1	3	3
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	1	4	4
Final Exam Preparation Time	1	8	8
Total Work Load (hour) / 25(s)	85 / 25 = 3.4		
ECTS	3		

Evaluation System

Mid-Term Studies	**Number**	**Contribution**
Midterm exams	1	%50
Quiz		
Laboratory		
Practice	1	%50
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
Total Time To Activities For Midterm		100
Final works		
Final	1	%40
Homework	1	%10
Practice	1	%50
Laboratory		
Total Time To Activities For Midterm		100
Contribution Of Midterm Studies On Grades		%40
Contribution Of Final Exam On Grades		%60
Total		100

The relationship between learning outcomes and the program qualifications of the courses

Program Qualifications	**Learning outcomes**			
	L.O.1	**L.O. 2**	**L.O.3**	**L.O.4**
1-Acquire proficient infrastructure related to the field of Physiotherapy and Rehabilitation, gain the ability to use theoretical and practical knowledge and skills in this field.	**5**	**5**	**5**	**5**
2-Identify, define the factors affecting health and gain problem-solving skill by using the information they have; plan and implement a treatment and exercise program with appropriate evidence-based methods and new techniques.	**5**	**5**	**5**	**5**
3-Gain the ability to use information technologies effectively, as well as the ability to select and use modern tools, techniques and agents necessary for physiotherapy and rehabilitation applications.	5	5	5	5
4-Design individual and multidisciplinary research, keep records, prepare reports, analyze and interpret results for quality service and research in health sciences.				
5-They conduct a literature search to access the information by using evidence-based databases and information sources.				
6-Gain autonomy in interdisciplinary and individual studies, ability to work effectively and take responsibility and awareness of the universal and social effects of their professional practice.				
7-Adopt life-long learning; contribute to quality improvement, field-related training and introductory programs and exhibit their professional behavior at national and international level.				
8-Have deontological and ethical awareness in professional researches and applications.				

Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent