

FTR300 - Neurological Rehabilitation

| Course Name | Code | Term | Theory (hours/week) | Application (hours/week) | Laboratory (hours/week) | ECTS |
|----------------------------------|---|---------------------------|------------------------|-----------------------------|----------------------------|------|
| Neurological Rehabilitation | FTR 300 | 6. Semester/2.Term Spring | 3 | 2 | - | 3 |
| Prerequisites | | | | | | |
| 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 | <ol style="list-style-type: none"> 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 | <ul style="list-style-type: none"> . 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, Tütün 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

