

FTR235 - Pharmacology

| Course Name | Code | Term | Theory (hours/week) | Application (hours/week) | Laboratory (hours/week) | ECTS |
|----------------------------------|--|-------------------------|---------------------|--------------------------|-------------------------|------|
| Pharmacology | FTR 235 | 3. semester/1.term fall | 2 | - | - | 4 |
| Prerequisites | - | | | | | |
| Course language | Turkish | | | | | |
| Course type | Elective | | | | | |
| Learning and teaching strategies | Lecture | | | | | |
| Instructor (s) | | | | | | |
| Course objective(Aim of course) | The aim of the course is to teach the students the basic mechanism of pharmacological agents, characteristics and side effects of agents affecting organ systems. | | | | | |
| Learning outcomes | 1. Defines basic concepts for pharmacology and toxicology. 2. Learns mechanism of and biological responses to pharmacological agents. 3. Evaluates pharmacodynamic and pharmacokinetic characteristics and side effects of agents affecting organ systems. | | | | | |
| References | -S. Oğuz Kayaalp, editör. Akılcı tedavi yönünden tıbbi farmakoloji. Ankara : Pelikan, 2012 -İsmet Dökmeci, A. Handan Dökmeci. Sağlık Bilimleri Fakülteri ve Sağlık Yüksekokulları için farmakoloji : kısaltılmış temel bilgiler. İstanbul : Nobel Tıp Kitapevleri, 2014 | | | | | |

Course outline weekly:

| Weeks | Topics |
|----------|--|
| 1. Week | Pharmacokinetics, pharmacodynamics |
| 2. Week | Drugs for autonomic nervous system, |
| 3. Week | Autacoids |
| 4. Week | Cardiovascular pharmacology |
| 5. Week | Respiratory pharmacology |
| 6. Week | Drugs for central nervous system: antiepileptic; opioid analgesics and antagonists |
| 7. Week | Drugs for central nervous system: Antidepressants, antipsychotics, drugs for neurodegenerative diseases |
| 8. Week | Mid-term Exam |
| 9. Week | Drugs for central nervous system: sedative hypnotics, local anesthetics, muscle relaxants, general anesthetics |
| 10. Week | Drug addiction and abuse |
| 11. Week | Endocrine system drugs: pancreatic hormones and antidiabetic drugs |
| 12. Week | Endocrine system drugs: drugs affecting lipid metabolism |
| 13. Week | Endocrine system drugs: corticosteroids-minerocorticosteroids |
| 14. Week | Drugs affecting bones mineral homeostasis, Chemotherapeutics |
| 15. Week | An overview |

ECTS (Student Work Load Table)

| Activities | Number | Duration | Total Work Load |
|--|----------|----------|-----------------|
| Course Duration (X14) | 14 | 2 | 28 |
| Laboratory | | | |
| Practice | | | |
| Field Study | | | |
| Study Time Of Outside Of Class (Pre-Study, Practice, Etc.) | 14 | 3 | 42 |
| 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 | 14 | 14 |
| Final Exam Preparation Time | 1 | 16 | 16 |
| Total Work Load (hour) / 25(s) | 100 / 25 | | |
| ECTS | 4 | | |

Evaluation System

| Mid-Term Studies | Number | Contribution |
|---|---------------|---------------------|
| Midterm exams | 1 | %100 |
| Quiz | | |
| Laboratory | | |
| Practice | | |
| 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 | %100 |
| Homework | | |
| Practice | | |
| 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 |
| 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 |
| 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 |
| 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. | | | |
| 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