

## PHARMACOLOGY

| Course Name                      | Code   | Term                      | Theory<br>(hours/week) | Application<br>(hours/week) | Laboratory<br>(hours/week) | ECTS |
|----------------------------------|--|---------------------------|------------------------|-----------------------------|----------------------------|------|
| Pharmacology                     | FTR<br>235   | 2.year/<br>1.term<br>fall | 2                      | -                           | -                          | 4    |
| Prerequisites                    | -  |                           |                        |                             |                            |      |
| Course language                  | Turkish  |                           |                        |                             |                            |      |
| Course type                      | Elective   |                           |                        |                             |                            |      |
| Learning and teaching strategies | Face-to-Face   |                           |                        |                             |                            |      |
| 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                | <ol style="list-style-type: none"><li>1. Defines basic concepts for pharmacology and toxicology.</li><li>2. Learns mechanism of and biological responses to pharmacological agents.</li><li>3. Evaluates pharmacodynamic and pharmacokinetic characteristics and side effects of agents affecting organ systems.</li></ol> |                           |                        |                             |                            |      |
| References                       | 1. Kayaalp SO. Rasyonel Tedavi Yönünden Tıbbi Farmakoloji. 11. baskı, 2005   |                           |                        |                             |                            |      |

### 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  | I. Mid-term evaluation   |
| 9. Week  | Drugs for central nervous system: sedatives, local anesthetics, muscle relaxants, general anesthetics                |
| 10. Week | Drug abuse   |
| 11. Week | Endocrine system drugs: pancreas hormones and antidiabetics;   |
| 12. Week | Endocrine system drugs: drugs affecting lipid metabolism   |
| 13. Week | Endocrine system drugs: corticosteroids-mineralocorticosteroids; drugs affecting bone homeostasis, Chemotherapeutics |
| 14. Week | II. Mid-term evaluation  |
| 15. Week | General evaluation   |

#### 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 |
| <b>Total Work Load ( hour) / 25(s)</b>                                 | 100 / 25 |    |    |
| <b>ECTS</b>  | 4        |    |    |

### Evaluation System

|                         |               |                     |
|-------------------------|---------------|---------------------|
| <b>Mid-Term Studies</b> | <b>Number</b> | <b>Contribution</b> |
|-------------------------|---------------|---------------------|

|   |   |      |
|---|---|------|
| Midterm exams                               | 1 | %100 |
| Quiz  |   |      |
| Laboratory                                  |   |      |
| Practice                                    |   |      |
| Field Study                                 |   |      |
| Course Internship (If There Is)             |   |      |
| Homework's                                  |   |      |
| Presentation and Seminar                    |   |      |
| Project                                     |   |      |
| Other evaluation methods                    |   |      |
| <b>Total Time To Activities For Midterm</b> |   | 100  |
| <b>Final works</b>                          |   |      |
| Final                                       | 1 | %100 |
| Homework                                    |   |      |
| Practice                                    |   |      |
| Laboratory                                  |   |      |
| <b>Total Time To Activities For Midterm</b> |   | 100  |
| Contribution Of Midterm Studies On Grades   |   | %50  |
| Contribution Of Final Exam On Grades        |   | %50  |
| <b>Total</b>                                |   | 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. Sufficient background in basic- clinical medical sciences and physical therapy and rehabilitation discipline; ability to use theoretical and practical skills and knowledge in these fields with analytical thinking | 5                 | 5     | 5     |
| 2. Ability to determine, define, formulate and solve the factors that affect health; ability to choose and apply evidence based techniques and new methods for this aim.  |                   |       |       |
| 3. Ability to choose and use modern equipments, techniques and modalities for physiotherapy and rehabilitation practices; effectively use the informatique technologies.  |                   |       |       |
| 4. Ability to design multidisciplinary research, keep records, collect appropriate data, analysis and interpret results.  |                   |       |       |
| 5. Ability to attain new knowledge, make literature reviews, use medical databases and sources of information devoted to medical- health sciences   |                   |       |       |
| 6. To work autonomously and effectively in health team and self confidence to take responsibility   |                   |       |       |
| 7. To internalize characteristically development, literate and lifelong learning; quality development, to contribute education and promotion programs in field, to internationalize their professional behavior.        |                   |       |       |
| 8. To have professional deontology and ethical  |                   |       |       |

|           |  |  |  |
|-----------|--|--|--|
| awareness |  |  |  |
|-----------|--|--|--|

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