

# PHARMACOLOGY OF CENTRAL NERVOUS SYSTEM

|    |                                                         |                                                                                                                                                                                                                                  |
|----|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Course Title:                                           | PHARMACOLOGY OF CENTRAL NERVOUS SYSTEM                                                                                                                                                                                           |
| 2  | Course Code:                                            | TFR 5002                                                                                                                                                                                                                         |
| 3  | Type of Course:                                         | Compulsory                                                                                                                                                                                                                       |
| 4  | Level of Course:                                        | Second Cycle                                                                                                                                                                                                                     |
| 5  | Year of Study:                                          | 1                                                                                                                                                                                                                                |
| 6  | Semester:                                               | 2                                                                                                                                                                                                                                |
| 7  | ECTS Credits Allocated:                                 | 2.00                                                                                                                                                                                                                             |
| 8  | Theoretical (hour/week):                                | 1.00                                                                                                                                                                                                                             |
| 9  | Practice (hour/week):                                   | 0.00                                                                                                                                                                                                                             |
| 10 | Laboratory (hour/week):                                 | 0                                                                                                                                                                                                                                |
| 11 | Prerequisites:                                          | None                                                                                                                                                                                                                             |
| 12 | Language:                                               | Turkish                                                                                                                                                                                                                          |
| 13 | Mode of Delivery:                                       | Face to face                                                                                                                                                                                                                     |
| 14 | Course Coordinator:                                     | Prof. Dr. MEHMET CANSEV                                                                                                                                                                                                          |
| 15 | Course Lecturers:                                       | Prof. Dr. Vahide Savcı<br>Prof. Dr. M. Sibel Gürün<br>Doç. Dr. Gökhan Göktalay<br>Doç. Dr. Mehmet Cansev<br>Doç. Dr. Sertaç Yılmaz                                                                                               |
| 16 | Contact information of the Course Coordinator:          | E-mail: mcansev@uludag.edu.tr<br>Tel: 0 224 2953568<br>Adres: UÜ Tıp Fak. Tıbbi Farmakoloji Anabilim Dalı, Görükle, 16059, Bursa                                                                                                 |
| 17 | Website:                                                |                                                                                                                                                                                                                                  |
| 18 | Objective of the Course:                                | To teach masters students basic knowledge about central nervous system pharmacology, neurotransmitter systems and names, mechanisms of effect, and adverse effects of drugs used in treatment of central nervous system diseases |
| 19 | Contribution of the Course to Professional Development: |                                                                                                                                                                                                                                  |
| 20 | Learning Outcomes:                                      |                                                                                                                                                                                                                                  |
|    | 1                                                       | Students comprehend how autonomic nervous system operates and its pharmacology                                                                                                                                                   |
|    | 2                                                       | Students have knowledge about central nervous system neurotransmitters                                                                                                                                                           |
|    | 3                                                       | Students comprehend names and mechanisms of effect of drugs used in treatment of central nervous system diseases                                                                                                                 |
|    | 4                                                       | Students comprehend adverse effects of central nervous system drugs and drug interactions                                                                                                                                        |
|    | 5                                                       |                                                                                                                                                                                                                                  |
|    | 6                                                       |                                                                                                                                                                                                                                  |
|    | 7                                                       |                                                                                                                                                                                                                                  |
|    | 8                                                       |                                                                                                                                                                                                                                  |
|    | 9                                                       |                                                                                                                                                                                                                                  |
|    | 10                                                      |                                                                                                                                                                                                                                  |
| 21 | Course Content:                                         |                                                                                                                                                                                                                                  |
|    | Course Content:                                         |                                                                                                                                                                                                                                  |

| Week      | Theoretical                                              | Practice |
|-----------|----------------------------------------------------------|----------|
| <b>1</b>  | Autonomic Nervous System 1: Parasympathetic System       |          |
| <b>2</b>  | Autonomic Nervous System 2: Parasympathetic System Drugs |          |
| <b>3</b>  | Autonomic Nervous System 3: Sympathetic System           |          |
| <b>4</b>  | Autonomic Nervous System 4: Sympathetic System Drugs     |          |
| <b>5</b>  | Excitatory Neurotransmitters                             |          |
| <b>6</b>  | Inhibitory Neurotransmitters                             |          |
| <b>7</b>  | Hipnosedative Drugs and Alcohol                          |          |
| <b>8</b>  | Drugs Used in Mood Disorders                             |          |
| <b>9</b>  | Antiepileptics 1                                         |          |
| <b>10</b> | Antiepileptics 2                                         |          |
| <b>11</b> | Antipsychotics 1                                         |          |
| <b>12</b> | Antipsychotics 2                                         |          |
| <b>13</b> | Opioid Analgesics                                        |          |
| <b>14</b> | General and Local Anesthetics                            |          |

| Activities                        |  |  | Number        | Duration (hour) | Total Work Load (hour) |
|-----------------------------------|--|--|---------------|-----------------|------------------------|
| Theoretical                       |  |  | 14            | 1.00            | 14.00                  |
| <b>TERM I LEARNING ACTIVITIES</b> |  |  | <b>NUMBER</b> | <b>WEIGHT</b>   |                        |
| Practicals/Labs                   |  |  | 0             | 0.00            | 0.00                   |
| Midterm Exam                      |  |  | 0             | 0.00            | 0.00                   |
| Self study and preparation        |  |  | 0             | 1.50            | 21.00                  |
| Homeworks                         |  |  | 0             | 0.00            | 0.00                   |
| Homework-project                  |  |  | 0             | 0.00            | 0.00                   |
| Field Studies                     |  |  | 0             | 0.00            | 0.00                   |
| Total                             |  |  | 1             | 100.00          | 0.00                   |
| Others                            |  |  | 0             | 0.00            | 0.00                   |
| Success Grade                     |  |  |               |                 |                        |
| Final Exams                       |  |  | 1             | 21.00           | 21.00                  |
| Total Work Load                   |  |  |               |                 | 56.00                  |
| Total work load/ 30 hr            |  |  | 100.00        |                 | 1.87                   |
| ECTS Credit of the Course         |  |  |               |                 | 2.00                   |
| Course                            |  |  |               |                 |                        |

[illegible]

|                                                       |            |   |       |   |          |   |   |        |   |             |   |   |   |   |   |   |
|-------------------------------------------------------|------------|---|-------|---|----------|---|---|--------|---|-------------|---|---|---|---|---|---|
| ÖK4                                                   | 4          | 5 | 0     | 0 | 0        | 3 | 0 | 0      | 0 | 0           | 0 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives    PQ: Program Qualifications |            |   |       |   |          |   |   |        |   |             |   |   |   |   |   |   |
| Contrib ution Level:                                  | 1 very low |   | 2 low |   | 3 Medium |   |   | 4 High |   | 5 Very High |   |   |   |   |   |   |