

Vocational School / Electroneurophysiology

2024 - 2025 Academic Year

NEUROPHARMACOLOGY

Syllabus

| Course Description | | | | | |
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| Name | Code | Semester | T+A Hour | Credit | ECTS |
| NEUROPHARMACOLOGY | EFZ1228900 | Spring Semester | 2+0 | 2 | 5 |
| Prerequisites Courses | | | | | |
| Recommended Elective Courses | | | | | |
| Language of Instruction | Turkish | | | | |
| Course Level | Short Cycle (Associate's Degree) | | | | |
| Course Type | Required | | | | |
| Course Coordinator | Assoc.Prof. Ayşe Arzu ŞAKUL | | | | |
| Name of Lecturer(s) | Lect. Bade Cevriye BAHTİYAR | | | | |
| Assistant(s) | | | | | |
| Aim | The aim of this course is to give general information about nervous system drugs and medications used during practice their profession to the students. | | | | |
| Course Content | This course contains; Introduction to the central nervous system pharmacology. ,General and local anesthetics.,Sedative-hypnotic drugs.,Neuromuscular blocking drugs and centrally acting muscle relaxants.,Antipsychotics, antidepressants, and anticholinergic drugs.,6. Opioid analgesics and antiepileptics.,Central nervous system stimulants and alcohols.,Drugs used in the treatment of Parkinson's and Alzheimer's disease. ,Basic concepts of the autonomic neurotransmitters and its pharmacology.,Parasympathomimetics and cholinesterase-inhibiting drugs.,Parasympatholytics.,Symphatomimetics.,Symphatolytics.,Nicotine and other ganglion stimulating agents, and ganglion blocking agents.. | | | | |
| Course Learning Outcomes | | | Teaching Methods | Assessment Methods | |
| Explains the relationship between nervous system pharmacology and electroneurophysiology. | | | 16, 6, 9 | A | |
| Explains neuromediators and synaptic transmission. | | | 6, 9 | A | |
| Explains the effects of neuromediators on synapses. | | | 16, 6, 9 | A | |
| Explains the effects of central nervous system drugs on synapses. | | | 16, 6, 9 | A | |
| Explains the pharmacokinetic and pharmacodynamic features, adverse effects, and drug interactions of the central nervous system drugs. | | | 16, 6, 9 | A | |
| Explains the central nervous system drugs. | | | 16, 6, 9 | A | |
| Explains the pharmacokinetic and pharmacodynamic features, adverse effects, and drug interactions of the autonomic nervous system drugs. | | | 16, 6, 9 | A | |
| Explains the mechanism of action of the autonomic nervous system drugs. | | | 16, 6, 9 | A | |
| Explains the autonomic nervous system drugs. | | | 16, 6, 9 | A | |
| Teaching Methods | 16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method | | | | |
| Assessment Methods | A: Traditional Written Exam | | | | |
| Lecture Schedule | | | | | |
| Sequence | Topics | Preliminary Preparation | | | |
| 1 | Introduction to the central nervous system pharmacology. | Preparation for the lecture notes previously issued. | | | |
| 2 | General and local anesthetics. | Preparation for the lecture notes previously issued. | | | |
| 3 | Sedative-hypnotic drugs. | Preparation for the lecture notes previously issued. | | | |
| 4 | Neuromuscular blocking drugs and centrally acting muscle relaxants. | Preparation for the lecture notes previously issued. | | | |
| 5 | Antipsychotics, antidepressants, and anticholinergic drugs. | Preparation for the lecture notes previously issued. | | | |
| 6 | 6. Opioid analgesics and antiepileptics. | Preparation for the lecture notes previously issued. | | | |
| 7 | Central nervous system stimulants and alcohols. | Preparation for the lecture notes previously issued. | | | |
| 8 | Drugs used in the treatment of Parkinson's and Alzheimer's disease. | Preparation for the lecture notes previously issued. | | | |
| 9 | Basic concepts of the autonomic neurotransmitters and its pharmacology. | Preparation for the lecture notes previously issued. | | | |
| 10 | Parasympathomimetics and cholinesterase-inhibiting drugs. | Preparation for the lecture notes previously issued. | | | |
| 11 | Parasympatholytics. | Preparation for the lecture notes previously issued. | | | |
| 12 | Symphatomimetics. | Preparation for the lecture notes previously issued. | | | |
| 13 | Symphatolytics. | Preparation for the lecture notes previously issued. | | | |
| 14 | Nicotine and other ganglion stimulating agents, and ganglion blocking agents. | Preparation for the lecture notes previously issued. | | | |
| Evaluation Methods | | | Weight(%) | | |
| Midterm Exam | | | 40 | | |
| General Exam | | | 60 | | |

| Resources |
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| Pharmacology notes given to the students. Kayaalp, SO: Rasyonel Tedavi Yönünden Tıbbi Farmakoloji, Ankara. |