



THIRD YEAR OF STUDIES

School year 2023/2024.

PHARMACOLOGY AND TOXICOLOGY

Subject:

PHARMACOLOGY AND TOXICOLOGY

The subject is valued with 12 ESCT. There are 4 hours of active classes per week (2 hours of lectures and 2 hours of exercises).

TEACHERS AND ASSOCIATES WHO PARTICIPATE IN TEACHING 2023/24:

| RB | Name and surname | E-mail address | Title |
|-----|-----------------------|--------------------------------|---------------------|
| 1. | Slobodan Janković | sjankovic @ medf.kg.ac.rs | Professor |
| 2 . | Dragan Milovanovic | piki@ptt.rs | Professor |
| 3. | Nataša Đorđević | natashadj2002@yahoo.com | Professor |
| 4. | Jasmina Milovanović | jasminamilo@yahoo.com | Professor |
| 5. | Dejana Ruzic Zecevic | dejana.zecevic@gmail.com | Assistant Professor |
| 6. | Marina Kostić | marrina2006kg@yahoo.com | Professor |
| 7. | Mihajlo Jakovljević | jakovljevicm @ medf.kg.ac.rs | Professor |
| 8. | Radica Zivković Zarić | radica_zivkovic@yahoo.com | Assistant Professor |
| 9. | Miloš Milosavljević | milosavljevicmilos91@gmail.com | Assistant Professor |
| 10. | Ana Pejic | anapejcic201502@yahoo.com | Assistant Professor |

COURSE STRUCTURE:

| Module | Name of the module | Weeks | Lectures weekly | Work in a small group per week | Teacher-leader of the module |
|--------------------|--|-------|-----------------|--------------------------------|------------------------------|
| 1 | GENERAL PHARMACOLOGY AND PHARMACOLOGY OF THE NERVOUS SYSTEM | 10 | 2 | 2 | prof. Dr. Slobodan Janković |
| 2 | ORGAN SYSTEM PHARMACOLOGY: <ul style="list-style-type: none"> • CARDIOVASCULAR SYSTEM • BLOOD AND TISSUES • RESPIRATORY TRACT • GASTROINTESTINAL TRACT • ENDOCRINE SYSTEM | 10 | 2 | 2 | prof. Dr. Slobodan Janković |
| 3 | ANTIMICROBIAL DRUGS, CYTOSTATICS, IMMUNOSUPPRESSANTS AND TOXICOLOGY | 10 | 2 | 2 | prof. Dr. Slobodan Janković |
| $\Sigma 60+60=120$ | | | | | |

ASSESSMENT:

The student masters the subject based on the activities during the class and the oral exam. The grade is equivalent to the number of obtained points (maximum 100). Points are earned in two ways:

ACTIVITY DURING THE LESSON: In this way, the student can earn up to 70 points in the following ways, according to the attached table:

1. 1 point each week if he/she regularly comes to class and participates in lectures and exercises, i.e. maximum 30 points.
2. by answering orally at the end of each module, a maximum of 40 points in total.

| MODULE | | MAXIMUM POINTS | | |
|--------|--|--|---|-----------|
| | | Regular and active attendance of classes | Oral answering at the end of the module | Σ |
| 1 | GENERAL PHARMACOLOGY AND PHARMACOLOGY OF THE NERVOUS SYSTEM | 10 | 15 | 25 |
| 2 | ORGAN SYSTEM PHARMACOLOGY: <ul style="list-style-type: none">• CARDIOVASCULAR SYSTEM• BLOOD AND TISSUES• RESPIRATORY TRACT• GASTROINTESTINAL TRACT• ENDOCRINE SYSTEM | 10 | 10 | 20 |
| 3 | ANTIMICROBIAL DRUGS, CYTOSTATICS, IMMUNOSUPPRESSANTS AND TOXICOLOGY | 10 | 15 | 25 |
| Σ | | 30 | 40 | 70 |

ORAL EXAMINATION: maximum **30** points.

The final grade is formed as follows:

In order to pass the subject a student must acquire minimum of 51 points .

| The number of points earned | Grade |
|-----------------------------|-----------|
| 0 - 50 | 5 |
| 51 - 60 | 6 |
| 61 - 70 | 7 |
| 71 - 80 | 8 |
| 81 - 90 | 9 |
| 91 - 100 | 10 |

Committee in charge of oral examination:

Regular members: prof. dr Slobodan Janković, prof. dr. Dragan Milovanović, Assistant Professor dr Dejana Ružić Zečević,

Reserve members: prof. dr. Jasmina Milovanović, prof. dr. Nataša Đorđević, prof. dr. Mihajlo Jakovljević, prof. dr. Marina Kostić, Assist. Prof. dr. Radica Živković Zarić, Assist. Prof. Ana Pejčić and Assist. Prof. Miloš Milosavljević.

LITERATURE:

| MODULE | TITLE OF THE TEXTBOOK | THE AUTHORS | PUBLISHER | LIBRARY | READING ROOM |
|---|--|------------------------------|---|---------|--------------|
| 1. GENERAL PHARMACOLOGY AND PHARMACOLOGY OF THE NERVOUS SYSTEM | Handbook of pharmacology and toxicology | Slobodan M. Jankovic | Faculty of Medical Sciences, Kragujevac, 2021 | yes | yes |
| | Medical pharmacology at a glance | Neal, M. J. | Wiley Blackwell, 2016 | | |
| | Manual for practical teaching in pharmacology and toxicology | Slobodan M. Jankovic, editor | Faculty of Medical Sciences, Kragujevac, 2018 | | |
| 2. PHARMACOLOGY OF THE ORGAN SYSTEM: <ul style="list-style-type: none"> • CARDIOVASCULAR SYSTEM • BLOOD AND TISSUES • RESPIRATORY TRACT • GASTROINTESTINAL TRACT • ENDOCRINE SYSTEM | Handbook of pharmacology and toxicology | Slobodan M. Jankovic | Faculty of Medical Sciences, Kragujevac, 2021 | yes | yes |
| | Medical pharmacology at a glance | Neal, M. J. | Wiley Blackwell, 2016 | | |
| | Manual for practical teaching in pharmacology and toxicology | Slobodan M. Jankovic, editor | Faculty of Medical Sciences, Kragujevac, 2018 | | |
| 3. ANTIMICROBIAL DRUGS, CYTOSTATICS, IMMUNOSUPPRESSANTS AND TOXICOLOGY | Handbook of pharmacology and toxicology | Slobodan M. Jankovic | Faculty of Medical Sciences, Kragujevac, 2021 | yes | yes |
| | Medical pharmacology at a glance | Neal, M. J. | Wiley Blackwell, 2016 | | |
| | Manual for practical teaching in pharmacology and toxicology | Slobodan M. Jankovic, editor | Faculty of Medical Sciences, Kragujevac, 2018 | | |

Power Point presentations of key lectures are available on the website of the Faculty of Medical Sciences: www.medf.kg.ac.rs

THE PROGRAM:

FIRST MODULE: GENERAL PHARMACOLOGY AND PHARMACOLOGY OF THE NERVOUS SYSTEM

TEACHING UNIT 1 (FIRST WEEK):

GENERAL PHARMACOLOGY

| lectures 2 hours | exercises for 2 hours |
|--|--|
| <ul style="list-style-type: none">• Introduction to pharmacology• The effect of drugs on the body | <ul style="list-style-type: none">• Relationship between dose and drug effect• Pharmacodynamic drug-drug interactions (antagonism and synergism) |

TEACHING UNIT 2 (SECOND WEEK):

GENERAL PHARMACOLOGY

| lectures 2 hours | exercises for 2 hours |
|--|--|
| <ul style="list-style-type: none">• Pharmacokinetics | <ul style="list-style-type: none">• Calculation of basic pharmacokinetic parameters• Pharmacokinetic drug-drug interactions |

TEACHING UNIT 3 (THIRD WEEK):

AUTONOMOUS NERVOUS SYSTEM – PARASYMPATHICUS

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• General pharmacology of neurovegetative transmission• Cholinergic and anticholinergic drugs• Pharmacology of vegetative ganglia | <ul style="list-style-type: none">• Effect of cholinergic and anticholinergic drugs on arterial pressure in cats |

TEACHING UNIT 4 (FOURTH WEEK):

AUTONOMOUS NERVOUS SYSTEM - SYMPATHICUS

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• Adrenergic drugs• Antiadrenergic drugs• Pharmacology of histamine and serotonin | <ul style="list-style-type: none">• Effect of adrenergic drugs on the arterial pressure of the cat |

TEACHING UNIT 5 (FIFTH WEEK):

AUTONOMOUS NERVOUS SYSTEM – CLINICAL CASES 1

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <p>Clinical problems:</p> <ul style="list-style-type: none">• Insecticide poisoning• Pheochromocytoma• Renal colic | <ul style="list-style-type: none">• The influence of adrenergic blockers on the arterial pressure of cats |

TEACHING UNIT 6 (SIXTH WEEK):

AUTONOMOUS NERVOUS SYSTEM – CLINICAL CASES 2

| lectures 2 hours | exercises for 2 hours |
|---|---|
| <ul style="list-style-type: none">• Pharmacology of neuro-muscular junction <p>Clinical problems:</p> <ul style="list-style-type: none">• Allergic reaction type 1• Glaucoma | <ul style="list-style-type: none">• The effect of myorelaxant drugs on striated musculature |

UNIT 7 (SEVENTH WEEK):

CENTRAL NERVOUS SYSTEM 1

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• General principles of neurotransmission• Principles of treatment of psychosis• Principles of depression treatment• Treatment of anxiety and insomnia | <ul style="list-style-type: none">• Methods of testing psychopharmaceuticals• Acute barbiturate poisoning |

UNIT 8 (EIGHTH WEEK):

CENTRAL NERVOUS SYSTEM 2

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• Anesthesia• Treatment of epilepsy• Alcoholism• Epileptic seizure | <ul style="list-style-type: none">• Effect of morphine on rabbit respiration |

UNIT 9 (NINTH WEEK):

CENTRAL NERVOUS SYSTEM 3

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• Pain therapy• Addiction pharmacology Clinical problems: <ul style="list-style-type: none">• Addicted to psychostimulants | <ul style="list-style-type: none">• Working with pharmacological databases on the Internet |

UNIT 10 (TENTH WEEK):

CENTRAL NERVOUS SYSTEM 4

| lectures 2 hours | exercises for 2 hours |
|--|--|
| Clinical problems: <ul style="list-style-type: none">• Adverse effects of antipsychotics• Acute mania• Preparing patients for general anesthesia• Parkinson's disease | <ul style="list-style-type: none">• Oral examination of the material from the first 10 weeks |

SECOND MODULE: PHARMACOLOGY OF ORGAN SYSTEMS

UNIT 11 (ELEVENTH WEEK):

CARDIOVASCULAR SYSTEM 1

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none">• Principles of heart failure treatment Clinical problems: <ul style="list-style-type: none">• Cardiac decompensation | <ul style="list-style-type: none">• Cardiotonic glycosides poisoning |

UNIT 12 (TWELVTH WEEK):

CARDIOVASCULAR SYSTEM 2

| lectures 2 hours | exercises for 2 hours |
|--|--|
| <ul style="list-style-type: none">• Principles of edema treatment Clinical problems: <ul style="list-style-type: none">• Migraine• Cardiac arrest | <ul style="list-style-type: none">• Uterotonics and tocolytics |

UNIT 13 (THIRTEENTH WEEK):

CARDIOVASCULAR SYSTEM 3

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> Principles of treatment of arterial hypertension Principles of treatment of coronary disease Principles of treatment of cardiac arrhythmias Clinical problems: <ul style="list-style-type: none"> Arterial hypertension | <ul style="list-style-type: none"> Evidence-based medicine: an analysis of the validity and practical significance of clinical studies |

UNIT 14 (FOURTEENTH WEEK):

CARDIOVASCULAR SYSTEM 4

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> Treatment of disorders of peripheral circulation Treatment of hyperlipoproteinemia and atherosclerosis Clinical problems: <ul style="list-style-type: none"> Angina pectoris | <ul style="list-style-type: none"> Design of clinical trials with drugs and principles of Good Clinical Practice |

UNIT 15 (FIFTEENTH WEEK):

CARDIOVASCULAR SYSTEM 5

| lectures 2 hours | exercises for 2 hours |
|---|---|
| <ul style="list-style-type: none"> Pharmacology of water and electrolytes Clinical problems: <ul style="list-style-type: none"> Cardiac arrhythmia Intermittent claudication Hyperlipidemia | <ul style="list-style-type: none"> Effect of drugs on coronary blood flow and the isolated heart |

UNIT 16 (SIXTEENTH WEEK):

RESPIRATORY TRACT

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> Principles of treatment of chronic obstructive pulmonary disease Clinical problems: <ul style="list-style-type: none"> Bronchial asthma | <ul style="list-style-type: none"> Distribution and origin of medicines; pharmacopoeia |

UNIT 17 (SEVENTEENTH WEEK):

BLOOD AND TISSUES

| lectures 2 hours | exercises for 2 hours |
|--|--|
| <ul style="list-style-type: none"> • Anticoagulants, antiplatelet drugs and coagulant agents Clinical problems: <ul style="list-style-type: none"> • Anemia • Burns | <ul style="list-style-type: none"> • Prescribing medicines; prescription • Powders |

UNIT 18 (EIGHTEENTH WEEK):

GASTROINTESTINAL TRACT

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> • Principles of treatment of peptic ulcer • Pharmacotherapy of vomiting Clinical problems: <ul style="list-style-type: none"> • Treatment of constipation and diarrhea • Implantation of hip endoprosthesis | <ul style="list-style-type: none"> • Tablets |

UNIT 19 (NINETEENTH WEEK):

ENDOCRINE SYSTEM 1

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none"> • Pharmacology of the thyroid gland • Pharmacology of the endocrine pancreas Clinical problems: <ul style="list-style-type: none"> • Osteoporosis • Hyperglycemic coma | <ul style="list-style-type: none"> • Capsules and suppositories |

UNIT 20 (TWENTIETH WEEK):

ENDOCRINE SYSTEM 2

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> • Pharmacology of adrenal cortex • Pharmacology of sterility and contraception Clinical problems: <ul style="list-style-type: none"> • Gynecological bleeding • Childbirth and puerperium | <ul style="list-style-type: none"> • Oral examination of the material from the previous 10 weeks |

THIRD MODULE: ANTIMICROBIAL DRUGS, CYTOSTATICS, IMMUNOSUPPRESSANTS AND TOXICOLOGY

UNIT 21 (TWENTY-FIRST WEEK):

ANTIBIOTICS

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none"> • General principles of anti-infective therapy • Antibiotics Clinical problems: • Bronchopneumonia and pyelonephritis • Sepsis • Osteomyelitis | <ul style="list-style-type: none"> • Solutions, mixtures, suspensions, syrups, enemas |

UNIT 22 (TWENTY-SECOND WEEK):

ANTIFUNGAL DRUGS

| lectures 2 hours | exercises for 2 hours |
|---|---|
| <ul style="list-style-type: none"> • Antifungal drugs Clinical problems: • Fungal meningitis | <ul style="list-style-type: none"> • Drops |

UNIT 23 (TWENTY-THIRD WEEK):

ANTIVIRUS DRUGS

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <ul style="list-style-type: none"> • Antiviral drugs Clinical problems: • Acquired immunodeficiency syndrome | <ul style="list-style-type: none"> • Teas, macerates , infusions , decoctions , emulsions |

UNIT 24 (TWENTY-FOURTH WEEK):

ANTI-PARASITIC DRUGS

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none"> • Antiparasitic drugs Clinical problems: • Amebiasis • Ectoparasites • Candidiasis | <ul style="list-style-type: none"> • Injections, infusion solutions, inhalations |

UNIT 25 (TWENTY-FIFTH WEEK):

CYTOSTATICS

| lectures 2 hours | exercises for 2 hours |
|---|---|
| <ul style="list-style-type: none">Principles of treatment of malignant diseases <p>Clinical problems</p> <ul style="list-style-type: none">Leukemia | <ul style="list-style-type: none">Ointments, pastes, gels, creams, wound dressings, vaccines and serums |

UNIT 26 (TWENTY-SIXTH WEEK):

IMMUNOSUPPRESSANTS

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none">Immunopharmacology <p>Clinical problems</p> <ul style="list-style-type: none">Kidney transplantation | <ul style="list-style-type: none">Bronchodilation |

UNIT 27 (TWENTY-SEVENTH WEEK):

TOXICOLOGY 1

| lectures 2 hours | exercises for 2 hours |
|--|--|
| <ul style="list-style-type: none">General principles of poisoning treatment <p>Clinical problems:</p> <ul style="list-style-type: none">Coma in poisoned | <ul style="list-style-type: none">Methods of measuring the concentration of drugs in the bloodMethods of collecting data on side effects of drugs |

UNIT 28 (TWENTY-EIGHT WEEK):

TOXICOLOGY 2

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <ul style="list-style-type: none">Antidots <p>Clinical problems:</p> <ul style="list-style-type: none">Carbon monoxide poisoning | <ul style="list-style-type: none">Anatomical-Therapeutic-Chemical classification of drugs and defined daily doses |

UNIT 29 (TWENTY-NINETH WEEK):

TOXICOLOGY 3

| lectures 2 hours | exercises for 2 hours |
|---|--|
| <p>Clinical problems:</p> <ul style="list-style-type: none">• Mushroom poisoning• Wilson's disease | <ul style="list-style-type: none">• Individualized medication dosing |

UNIT 30 (THIRTIETH WEEK):

TOXICOLOGY 4

| lectures 2 hours | exercises for 2 hours |
|--|---|
| <p>Clinical problems:</p> <ul style="list-style-type: none">• Poisoning by a corrosive agent• Pesticide poisoning | <ul style="list-style-type: none">• Oral examination of the material from the previous 10 weeks |

Consultations with teachers: every Friday, from 1 to 2 p.m., in the premises of the Department of Pharmacology (rooms 21 and 23)

LECTURE SCHEDULE

**LITTLE HALL (MALA
SALA)**

**TUESDAY
9:45 - 11:15**

SCHEDULE OF EXERCISES

| TUESDAY | | | |
|--|--------------------|---|--------------------|
| PATHOPHYSIOLOGICAL EXERCISE ROOM (32) | | PATHOHYSTOLOGICAL EXERCISE ROOM (31) | |
| 15:00 - 18:30 | | 15:00-18:30 | |
| I group | 15:00-16:30 | III group | 15:00-16:30 |
| II group | 16:30-18:00 | IV group | 16:30-18:00 |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|--------------------|------|--|--|
| 1 | 1 – 31.10.2023. | L | General pharmacology. Pharmacodynamics. | Prof. Slobodan Janković |
| 1 | 1 – 31.10.2023. | E | Relationship between dose and drug effect, drug interactions (antagonism and synergism). | Prof. Slobodan Janković |
| 1 | 2 – 7.11.2023. | L | Pharmacokinetics. | Prof. Slobodan Janković |
| 1 | 2 – 7.11.2023. | E | Calculation of basic pharmacokinetic parameters. | Prof. Slobodan Janković |
| 1 | 3 – 14.11.2023. | L | Vegetative nervous system - parasympathicus | Prof. Nataša Đorđević |
| 1 | 3 – 14.11.2023. | E | Effect of cholinergic and anticholinergic drugs on cat's arterial pressure | Prof. Nataša Đorđević, Prof. Slobodan Janković |
| 1 | 4 – 21.11.2023. | L | Vegetative nervous system - sympatheticus | Prof. Nataša Đorđević |
| 1 | 4 – 21.11.2023. | E | Effect of adrenergic drugs on cat's arterial pressure | Prof. Nataša Đorđević, Prof. Slobodan Janković |
| 1 | 5 – 28.11.2023. | L | Vegetative nervous system – clinical cases 1 | Prof. Jasmina Milovanović |
| 1 | 5 – 28.11.2023. | E | The influence of adrenergic blockers on cat's arterial pressure | Prof. Jasmina Milovanović, Prof. Nataša Đorđević |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|--------------------|------|--|--|
| 1 | 6 – 5.12.2023. | L | Vegetative nervous system – clinical cases 2 | Prof. Jasmina Milovanović |
| 1 | 6 – 5.12.2023. | E | Influence of myorelaxant drugs on striated musculature | Prof. Jasmina Milovanović, Prof. Nataša Đorđević |
| 1 | 7 – 12.12.2023. | L | Central nervous system 1 | Prof. Dragan Milovanovic |
| 1 | 7 – 12.12.2023. | E | Methods of testing psychopharmaceuticals. Acute poisoning with barbiturates. | Prof. Dragan Milovanovic, Prof. Jasmina Milovanović |
| 1 | 8 – 19.12.2023. | L | Central nervous system 2 | Prof. Dragan Milovanovic |
| 1 | 8 – 19.12.2023. | E | Effect of morphine on rabbit respiration | Prof. Dragan Milovanovic, Prof. Jasmina Milovanović |
| 1 | 9 – 26.12.2023. | L | Central nervous system 3 | Prof. Mihajlo Jakovljević |
| 1 | 9 – 26.12.2023. | E | Working with pharmacological databases on the Internet. | Assist . Prof. Radica Zivković Zarić, Prof. Dragan Milovanovic |
| 1 | 10 – 9.1.2024. | L | Central nervous system 4 | Prof. Mihajlo Jakovljević |
| 1 | 10 – 9.1.2024. | E | Oral examination of the material from the first 10 weeks. | Assist . Prof. Radica Zivković Zarić, Prof. Slobodan Janković |
| 2 | 11 – 16.1.2024. | L | Cardiovascular system 1 | Prof. Marina Kostić |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|--------------------|----------|--|--|
| 2 | 11 – 16.1.2024. | E | Cardiotonic glycoside poisoning | Prof. Marina Kostić, Prof. Dragan Milovanovic |
| 2 | 12 – 23.1.2024. | L | Cardiovascular system 2 | Prof. Marina Kostić |
| 2 | 12 – 23.1.2024. | E | Uterotonics and tocolytics | Prof. Marina Kostić, doc. Dr Ana Pejčić |
| 2 | 13 – 30.1.2024. | L | Cardiovascular system 3 | Assist. Prof. Dejana Ružić-Zečević |
| 2 | 13 – 30.1.2024. | E | Evidence-based medicine: an analysis of the validity and practical significance of clinical studies. | Assist. Prof. Dejana Ružić-Zečević, Prof. Marina Kostić |
| 2 | 14 – 20.2.2024. | L | Cardiovascular system 4 | Assist. Prof. Dejana Ružić-Zečević |
| 2 | 14 – 20.2.2024. | E | Design of clinical trials with drugs and principles of Good Clinical Practice | Assist. Prof. Dejana Ružić-Zečević, Prof. Marina Kostić |
| 2 | 15 – 27.2.2024. | L | Cardiovascular system 5 | Assist . Prof. Radica Zivković Zarić |
| 2 | 15 – 27.2.2024. | E | Effect of drugs on coronary blood flow and isolated heart. | Assist . Prof. Radica Zivković Zarić, Assist. Prof. Dejana Ružić-Zečević |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|--------------------|------|---|---|
| 2 | 16 – 5.3.2024. | L | Respiratory tract | Assist . Prof. Radica Zivković Zarić |
| 2 | 16 – 5.3.2024. | E | Classification and origin of drugs; pharmacopoeia | Assist . Prof. Radica Zivković Zarić, Assist. Prof. Dejana Ružić-Zečević |
| 2 | 17 – 12.3.2024. | L | Blood and tissues | Assist. Prof. Ana Pejčić |
| 2 | 17 – 12.3.2024. | E | Prescribing medicines; prescription, Powders. | Assist. Prof. Ana Pejčić, Assist . Prof. Radica Zivković Zarić |
| 2 | 18 – 19.3.2024 | L | Gastrointestinal tract | Assist. Prof. Ana Pejčić, |
| 2 | 18 – 19.3.2024. | E | Tablets | Assist. Prof. Ana Pejčić, Assist . Prof. Radica Zivković Zarić |
| 2 | 19 – 26.3.2024. | L | Endocrine system 1 | Prof. Jasmina Milovanović, |
| 2 | 19 – 26.3.2024. | E | Capsules and suppositories | Prof. Jasmina Milovanović , Assist. Prof. Ana Pejčić |
| 2 | 20 – 2.4.2024. | L | Endocrine system 2 | Prof. Jasmina Milovanović |
| 2 | 20 – 2.4.2024. | E | Oral examination of the material from the previous 10 weeks. | Prof. Jasmina Milovanović, Assist. Prof. Ana Pejčić |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|--------------------|------|---|---|
| 3 | 21 – 9.4.2024. | L | Antibiotics | Assist. Prof. Dejana Ružić-Zečević |
| 3 | 21 – 9.4.2024. | E | Solutions, mixtures, suspensions, syrups, enemas | Assist. Prof. Ana Pejčić, Prof. Jasmina Milovanović |
| 3 | 22 – 16.4.2024. | L | Antifungal drugs | Assist. Prof. Dejana Ružić-Zečević |
| 3 | 22 – 16.4.2024. | E | Drops. | Assist. Prof. Ana Pejčić, Prof. Jasmina Milovanović |
| 3 | 23 – 23.4.2024. | L | Antiviral drugs | Assist Prof Miloš Milosavljević |
| 3 | 23 – 23.4.2024. | E | Teas, macerates, infusions, decoctions, emulsions | Assist Prof Miloš Milosavljević, Assist. Prof. Ana Pejčić |
| 3 | 24 – 30.4.2024. | L | Antiparasitic drugs | Assist Prof Miloš Milosavljević |
| 3 | 24 – 8.5.2024. | E | Injections, infusion solutions, inhalations | Ass. Prof. Miloš Milosavljević, Ass. Prof. Dejana Ružić Zečević |
| 3 | 25 – 14.5.2024. | L | Cytostatics | Prof. Mihajlo Jakovljević |

LESSONS SCHEDULE FOR THE COURSE PHARMACOLOGY AND TOXICOLOGY

| module | week | type | unit name | a teacher |
|--------|---------------------|------|---|---|
| 3 | 25 – 15.5.2024. | E | Ointments, pastes, gels, creams, woud dressings, vaccines and serums. | Assist Prof Miloš Milosavljević, Assist. Prof. Ana Pejčić |
| 3 | 26 – 21.5.2024. | L | Immunosuppressants | Prof. Mihajlo Jakovljević |
| 3 | 26 – 22.5.2024. | E | Bronchodilation. Methods of measuring the concentration of drugs in the blood Methods of collecting data on side effects of drugs. | Assist Prof Miloš Milosavljević, Assist. Prof. Ana Pejčić |
| 3 | 27–28 28.5.2024. | L | Toxicology 1 and Toxicology 2 | Prof. Nataša Đorđević |
| 3 | 27–28 29.5.2024. | E | ATC classification of drugs and defined daily doses Individualized medication dosing | Prof. Nataša Đorđević, Prof. Marina Kostić |
| 3 | 29–30 4.6.2024. | L | Toxicology 3 and Toxicology 4 | Prof. Marina Kostić |
| 3 | 29–30 5.6.2024. | E | Oral examination of the material from the previous 10 weeks. | Prof. Slobodan Janković Prof. Marina Kostić |
| | | | EXAM (June term) | |