

FOURTH YEAR OF STUDIES

School year 2023/2024.

ures

TEACHERS AND ASSOCIATES:

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
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6.	Marina Kostić	marrina2006kg@yahoo.com	Professor
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8.	Radica Zivković Zarić	radica_zivkovic@yahoo.com	Assistant Professor
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10.	Ana Pejčić	anapejcic201502@yahoo.com	Assistant Professor

COURSE STRUCTURE:

Module	Name of the module	Week	Lectures weekly	Seminars weekly	Teacher-leader of the module
1	GENERAL CLINICAL PHARMACOLOGY	5	2	1	prof. Dr. Slobodan Janković
2	CLINICAL PHARMACOLOGY OF THE CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEM	5	2	1	prof. Dr. Slobodan Janković
3	CLINICAL PHARMACOLOGY OF OTHER SPECIAL THERAPEUTIC AREAS	5	2	1	prof. Dr. Slobodan Janković
					∑30+15=45

ASSESSMENT:

The student masters the subject in modules. The grade is equivalent to the number obtained points (see tables). Points are earned in two ways:

ACTIVITY DURING THE LESSON: In this way, a student can earn up to 30 points by finding the answer to the therapeutic problem set during previous seminar in publications that meet the criteria of evidence-based medicine; in accordance with the demonstrated success in solving the problem, he/she gets 0-2 points.

FINAL PAPERS FOR MODULES: The student solves the given clinical case in written form. In this way, the student can acquire up to 70 points, according to the attached table. The solution of the clinical case is evaluated with 50% of the available points if it is attempted, with 75% if it is partially correct, and with 100% of the available points if it is completely correct.

		MAXIN	IUM POINTS	
	MODULE	activity during classes	final papers	Σ
1	GENERAL CLINICAL PHARMACOLOGY	10	22	32
2	CLINICAL PHARMACOLOGY OF THE CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEM	10	24	34
3	CLINICAL PHARMACOLOGY OF OTHER SPECIAL THERAPEUTIC AREAS	10	24	34
	Σ	30	70	100

The final grade is formed as follows:

In order to pass the whole exam a student must obtain minimum 51 points.

To pass the module a student must:

1. earn more than 50% points on that module

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

FINAL PAPERS BY MODULES

MODULE 1.

FINAL PAPER 0-22 POINTS

ASSESSMENT OF THE FINAL PAPER

The solution of the clinical case is evaluated with 50% of the available points if it is attempted, with 75% if it is partially correct, and with 100% of the available points if it is completely correct.

MODULE 2.

FINAL PAPER 0-24 POINTS

ASSESSMENT OF THE FINAL PAPER

The solution of the clinical case is evaluated with 50% of the available points if it is attempted, with 75% if it is partially correct, and with 100% of the available points if it is completely correct.

MODULE 3.

FINAL PAPER 0-24 POINTS

ASSESSMENT OF THE FINAL PAPER

The solution of the clinical case is evaluated with 50% of the available points if it is attempted, with 75% if it is partially correct, and with 100% of the available points if it is completely correct.

LITERATURE:

MODULE	TITLE OF THE TEXTBOOK	THE AUTHORS	PUBLISHER	LIBRARY	READING ROOM
1. GENERAL CLINICAL	Clinical pharmacology	Slobodan M. Jankovic	Faculty of Medical Sciences, Kragujevac, 2023	Yes	Yes
PHARMACOLOGY	Lippincott Illustrated Reviews: Pharmacology Eight Edition	Karen Whalen	Wolters Kluwer, 2022	Does not have	Does not have
2. CLINICAL PHARMACOLOGY OF	Clinical pharmacology	Slobodan M. Jankovic	Faculty of Medical Sciences, Kragujevac, 2023	Yes	Yes
THE CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEM	Lippincott Illustrated Reviews: Pharmacology Eight Edition	Karen Whalen	Wolters Kluwer, 2022	Does not have	Does not have
3. CLINICAL PHARMACOLOGY OF OTHER SPECIAL THERAPEUTIC	Clinical pharmacology	Slobodan M. Jankovic	Faculty of Medical Sciences, Kragujevac, 2023	Yes	Yes
AREAS	Lippincott Illustrated Reviews: Pharmacology Eight Edition	Karen Whalen	Wolters Kluwer, 2022	Does not have	Does not have

All lectures are available on the website of the Faculty of Medical Sciences: $\underline{www.medf.kg.ac.\ rs}$

THE PROGRAM:

FIRST MODULE: GENERAL CLINICAL PHARMACOLOGY

TEACHING UNIT 1 (FIRST WEEK):

PHARMACOVIGILANCE

lectures 2 hours	seminar 1 hour
 Clinical pharmacology in the health care system. 	 Detection and reporting of adverse drug reactions.

TEACHING UNIT 2 (SECOND WEEK):

CLINICAL PHARMACOKINETICS

lectures 2 hours	seminar 1 hour
 Individualization of drug dosing according to pharmacokinetic models 	 Therapeutic drug monitoring Calculators for individualizing dosage regimens

TEACHING UNIT 3 (THIRD WEEK):

PHARMACOGENETICS

lectures 2 hours	seminar 1 hour
The importance of pharmacogenetics for the clinical application of drugs	 Examples of drug administration depending on the patient's pharmacogenetic status

UNIT 4 (FOURTH WEEK):

PHARMACOECONOMICS

lectures 2 hours	seminar 1 hour	
Basics of pharmacoeconomics	 Examples of pharmacoeconomic studies Selection of drugs based on pharmacoeconomic studies 	

UNIT 5 (FIFTH WEEK):

RATIONAL PRESCRIBING

lectures 2 hours	seminar 1 hour
Inappropriate prescribing of drugsPrinciples of rational use of drugs	The most common errors when prescribing drugs in clinical practice.

SECOND MODULE: CLINICAL PHARMACOLOGY OF THE CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEM

UNIT 6 (SIXTH WEEK):

DRUGS AND THE HEART

lectures 2 hours	seminar 1 hour
Prescribing drugs that affect heart rhythm.	Treatment of heart failure

UNIT 7 (SEVENTH WEEK):

TREATMENT OF HYPERTENSION

lectures 2 hours	seminar 1 hour		
 Prescribing antihypertensive drugs. 	• Treatment of hypertensive emergency		

UNIT 8 (EIGHTH WEEK):

TREATMENT OF VASCULAR DISEASES

lectures 2 hours	seminar 1 hour		
Prescribing drugs for cerebrovascular diseases	Treatment of bacterial endocarditis		

UNIT 9 (NINTH WEEK):

TREATMENT OF EPILEPSY

lectures 2 hours	seminar 1 hour		
Prescribing antiepileptic drugs	Termination of status epilepticus		

UNIT 10 (TENTH WEEK):

TREATMENT OF PSYCHOSIS AND DEPRESSION

lectures 2 hours	seminar 1 hour
Prescribing antipsychoticsPrescribing antidepressants and mood stabilizers	Treatment of postoperative delirium in the elderly.

THIRD MODULE: CLINICAL PHARMACOLOGY OF OTHER SPECIAL THERAPEUTIC AREAS

UNIT 11 (ELEVENTH WEEK):

HEMOSTASIS AND ANEMIA

lectures 2 hours	seminar 1 hour
 Perioperative administration of anticoagulant and antiaggregation drugs. 	Treatment of anemia

UNIT 12 (Twelfth Week):

IMMUNOSUPPRESSANTS

lectures 2 hours	seminar 1 hour
Clinical application of immunosuppressants.	Treatment of systemic Lupus erythematodes

UNIT 13 (WEEK THIRTEEN):

ANTIBIOTICS

lectures 2 hours	seminar 1 hour
Antibiotic management in the hospitalPrinciples of rational use of antibiotics	Dosing of antibiotics in dialysis patients

UNIT 14 (FOURTEENTH WEEK):

CORTICOSTEROIDS

lectures 2 hours	seminar 1 hour		
Prescribing corticosteroids	Treatment of rheumatoid arthritis		

UNIT 15 (FIFTEENTH WEEK):

SEX HORMONES

lectures 2 hours	seminar 1 hour
Prescribing sex hormones and antiestrogens	Hormone replacement in menopause

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

PHARMACOLOGICAL CLASSROOM

FRIDAY 15:00-16:30

SEMINAR SCHEDULE

PHARMACOLOGICAL CLASSROOM

WEDNESDAY 16:30 - 17:15

module	week	date	time	place	type	method unit name	a teacher
1	1	24.11.2023.	15:00- 16:30	PhClass	L	Clinical pharmacology in the health care system.	Prof. Slobodan Janković
1	1	24.11.2023.	16:30- 17:15	PhClass	S	Detection and reporting of adverse drug reactions.	Prof. Slobodan Janković
1	2	1.12.2023.	15:00- 16:30	PhClass	L	Individualization of drug dosing according to pharmacokinetic models	Prof. Jasmina Milovanović
1	2	1.12.2023.	16:30- 17:15	PhClass	S	Therapeutic drug monitoring Calculators for individualizing dosage regimens	Prof. Jasmina Milovanović
1	3	8.12.2023.	15:00- 16:30	PhClass	L	The importance of pharmacogenetics for the clinical application of drugs	Prof. Nataša Đorđević
1	3	8.12.2023.	16:30- 17:15	PhClass	S	Examples of drug administration depending on the patient's pharmacogenetic status	Prof. Nataša Đorđević
1	4	15.12.2023.	15:00- 16:30	PhClass	L	Basics of pharmacoeconomics	Prof. Dragan Milovanovic
1	4	15.12.2023.	16:30- 17:15	PhClass	S	Examples of pharmacoeconomic studies Selection of drugs based on pharmacoeconomic studies	Prof. Dragan Milovanovic
1	5	22.12.2023.	15:00- 16:30	PhClass	L	Inappropriate prescribing of drugs Principles of rational use of medicines	Prof. Mihajlo Jakovljević

module	week	date	time	place	type	method unit name	a teacher
1	5	22.12.2023.	16:30- 17:15	PhClass	S	The most common errors when rescribing drugs in clinical practice	Assist . Prof. Radica Zivković Zarić
		22.12.2023.	17:15-18:00	PhClass	FP	FINAL PAPER OF MODULE 1 - prof. SI	obodan Janković
2	6	29.12.2023.	15:00- 16:30	PhClass	L	Prescribing drugs that affect heart rhythm.	Prof. Marina Kostić
2	6	29.12.2023.	16:30- 17:15	PhClass	S	Treatment of heart failure	Prof. Marina Kostić
3	15	29.12.2023.	17:15- 18:45	PhClass	L	Prescribing sex hormones and antiestrogens	Prof. Marina Kostić
3	15	29.12.2023.	18:45- 19:30	PhClass	S	Hormone replacement in menopause	Prof. Marina Kostić
2	7	12.1.2024.	15:00- 16:30	PhClass	L	Prescribing antihypertensive drugs.	Assist. Prof. Dejana Ružić- Zečević

module	week	date	time	place	type	method unit name	a teacher	
2	7	12.1.2024.	16:30- 17:15	PhClass	S	Treatment of hypertensive emergency	Assist. Prof. Dejana Ružić- Zečević	
2	8	12.1.2024.	17:15- 18:45	PhClass	L	Prescribing drugs for cerebrovascular diseases	Assist . Prof. Radica Zivković Zarić	
2	8	12.1.2024.	18:45- 19:30	PhClass	S	Treatment of bacterial endocarditis	Assist . Prof. Radica Zivković Zarić	
2	9	19.1.2024.	15:00- 16:30	PhClass	L	Prescribing antiepileptic drugs	Prof. Jasmina Milovanović	
2	9	19.1.2024.	16:30- 17:15	PhClass	S	Termination of status epilepticus.	Prof. Jasmina Milovanović	
2	10	19.1.2024.	17:15- 18:45	PhClass	L	Prescribing antipsychotics Prescribing antidepressants and mood stabilizers	Assist. Prof. Ana Pejčić	
2	10	19.1.2024.	18:45- 19:30	PhClass	S	Treatment of postoperative delirium in the elderly.	Assist. Prof. Ana Pejčić	
	•	19.1.2024.	19:30-20:15	PhClass	FP	FINAL PAPER OF MODULE 2 - prof. Slobodan Janković		

module	week	date	time	place	type	method unit name	a teacher
3	11	26.1.2024.	15:00- 16:30	PhClass	L	Perioperative administration of anticoagulant and antiaggregation drugs.	Assist. Prof. Dejana Ružić- Zečević
3	11	26.1.2024.	16:30- 17:15	PhClass	S	Treatment of anemia	Assist. Prof. Ana Pejčić
3	12	26.1.2024.	17:15- 18:45	PhClass	L	Prescribing immunosuppressants.	Assist Prof Miloš Milosavljević
3	12	26.1.2024.	18:45- 19:30	PhClass	S	Treatment of systemic Lupus erythematodes	Assist Prof Miloš Milosavljević
3	13	2.2.2024.	15:00- 16:30	PhClass	L	Antibiotic management in the hospital Principles of rational use of antibiotics	Prof. Mihajlo Jakovljević
3	13	2.2.2024.	16:30- 17:15	PhClass	S	Dosing of antibiotics in dialysis patients .	Assist Prof Miloš Milosavljević
3	14	2.2.2024.	17:15- 18:45	PhClass	L	Prescribing corticosteroids	Prof. Nataša Đorđević
3	14	2.2.2024.	18:45- 19:30	PhClass	S	Treatment of rheumatoid arthritis	Prof. Nataša Đorđević

	module	week	date	time	place	type	method unit name	a teacher
			2.2.2024.	19:30-20:30	PhClass	FP	FINAL PAPER OF MODULE 3 - prof. Slobodan Janković	