INTRODUCTION TO PHARMACEUTICAL PRACTICE

INTEGRATED ACADEMIC PHARMACY STUDIES

FIRST YEAR OF STUDY

academic 2025/2026.

Course:

INTRODUCTION TO PHARMACEUTICAL PRACTICE

The course is evaluated with 4 ECTS credits. It consists of 3 hours of active teaching per week (2 hours of lectures and 1 hour of work in a small group).

TEACHERS AND ASSOCIATES:

	Name and surname	E-mail	Title
1.	Katarina Mihajlovic*	katarina.mihajlovic@fmn.kg.ac.rs	Assistant professor
2.	Milena Jurisevic	milena.jurisevic13@gmail.com	Associate professor
3	Olivera Kostic	olivera.kostic@fmn.kg.ac.rs	Associate professor
4.	Tamara Nikolic Turnic	tnikolict@gmail.com	Associate professor
5.	Radisa Pavlovic	rpavlovic@fmn.kg.ac.rs	Associate professor
6.	Aleksandra Stojanovic	vranicaleksandra90@gmail.com	Assistant professor
7.	Natasa Mijailovic	nacakg@gmail.com	Assistant professor
8.	Marko Ravic	markoravic@hotmail.com	Assistant
9.	Katarina Djordjevic	kacka96kg@gmail.com	Assistant
10.	Bozidar Pindovic	pindovic.bozidar@gmail.com	Assistant
11.	Teodora Todorovic	teodora.anicic95@gmail.com	Teaching associate

*Course supervisor

COURSE STRUCTURE:

Module	Module name	Week	Lectures	Work in a small group	Teacher-supervisor module
1	Introduction to pharmacy	5	2	1	Katarina Mihajlovic
2	Medication therapy management	5	2	1	Katarina Mihajlovic
3	Perspectives in pharmacy practice	5	2	1	Katarina Mihajlovic
					Σ 30+15=45

EVALUATION:

The student overcomes the course based on the points achieved in the pre-examination activities and the final exam. The score is equivalent to the number of gained points (table). Points are earned as follows:

Activity during classes: The student can gain up to 30 points by taking 2 exam question from that week, answering and receiving 0-2 points in accordance with the demonstrated knowledge.

Final exam: The student can gain up to 70 points. The student answers 5 exam questions (oral examination) (each question 0-14 points).

Module		MAXIMUM POINTS		
		Activity during classes	**Final exam**	**Σ**
1	Introduction to pharmacy	10		
2	Medication therapy management	10		
3	Perspectives in pharmacy practice	10		
	Final exam (oral examination)		70	**70**
Σ		30	70	**100**

Final grade is formed as follows:

In order to pass the course, student must gain a minimum of 51 points.
To pass the module, the student must achieve more than 50% of the maximal number of points for the module.
To pass the Final exam (oral examination), the student must achieve more than more 50% points.

The final grade will be formed according to the following table:

Grading system		
Grade	**Total No of points**	**Description**
10	91-100	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	< 51	Failing

Literature:

Title	Authors	Publisher	LIBRARY
The Science and Practice of Pharmacy	Troy, B. David (editor). Remington	Philadelphia: Lippincot Williams&Wilkins. 2006.	
Basic and Clinical Pharmacology	Katzung B.	New York: McGraw-Hill, Inc. 2004.	
Hospital Pharmacy	Stephens, Martin	London: Pharmaceutical Press. 2003.	
Pharmaceutical practice	A.J.Winfield	Edinburgh: Churchill Livingstone. 1998.	
Drug Information: A Guide for Pharmacists	Malone P, Malone M, Park S	6th Edition. McGraw Hill. 2017	

THE PROGRAM:

MODULE 1: INTRODUCTION TO PHARMACY

TEACHING UNIT 1 (FIRST WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Introduction to pharmacy Brief history of pharmacy	Introduction to pharmacy Brief history of pharmacy

TEACHING UNIT 2 (SECOND WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Organization of health care system in Republic of Serbia and European Union	Organization of health care system in Republic of Serbia and European Union

TEACHING UNIT 3 (THIRD WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Community pharmacy, clinical pharmacy and hospital pharmacy	Role of pharmacist in healthcare delivery

TEACHING UNIT 4 (FOURTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Good pharmacy practice in community pharmacy settings	Principles of communications pharmacist - patient

TEACHING UNIT 5 (FIFTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Good pharmacy practice in hospital pharmacy settings	New dimensions of pharmacy practice and care

MODULE 2: MEDICATION THERAPY MANAGEMENT

TEACHING UNIT 6 (SIXTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Medicines and their preparation	Calculations in pharmacy practice

TEACHING UNIT 7 (SEVENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
OTC medicine	OTC medicine

TEACHING UNIT 8 (EIGHTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Basics of radiopharmacy, preparing of cytotoxic drugs and radiopharmaceuticals	Basics of radiopharmacy, preparing of cytotoxic drugs and radiopharmaceuticals

TEACHING UNIT 9 (NINTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Biotherapeutics	MAB, biogenerics, biobetters, biosimilar

TEACHING UNIT 10 (TENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Basics of therapeutic drug monitoring	Basics of therapeutic drug monitoring

MODULE 3: PERSPECTIVES IN PHARMACY PRACTICE

TEACHING UNIT 11 (ELEVENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Organization of preclinical and clinical trials	Organization of preclinical and clinical trials

TEACHING UNIT 12 (TWELFTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Randomized clinical trials and evidence based medicine	Randomized clinical trials and evidence based medicine

TEACHING UNIT 13 (THIRTEENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Introduction to pharmacoeconomics, pharmacogenomic and pharmacoepidemiology	Introduction to pharmacoeconomics, pharmacogenomic and pharmacoepidemiology

TEACHING UNIT 14 (FOURTEENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Introduction to pharmacovigilance and drug safety	Introduction to pharmacovigilance and drug safety

TEACHING UNIT 15 (FIFTEENTH WEEK):

Lectures: 2 hours	Practical classes: 1 hour
Repetition and consolidation of previous material	Repetition and consolidation of previous material

LECTURES AND PRACTICE

TUESDAY

GREEN HALL H45

16.45-18.50

Schedule of lectures, practical classes and tests – academic calendar

TEACHING SCHEDULE FOR THE COURSE INTRODUCTION TO PHARMACEUTICAL PRACTICE

module	week	date	time	place	type	the name of the method unit	teacher
1	1				**L**	Introduction to pharmacy Brief history of pharmacy	Katarina Mihajlovic, *Lecturer*
					P	Introduction to pharmacy Brief history of pharmacy	Marko Ravic
	2				**L**	Organization of health care system in Republic of Serbia and European Union	Milena Jurisevic, *Lecturer*
					P	Organization of health care system in Republic of Serbia and European Union	Marko Ravic
	3				**L**	Community pharmacy, clinical pharmacy and hospital pharmacy	Natasa Mijailovic, *Lecturer*
					P	Role of pharmacist in healthcare delivery	Marko Ravic
	4				**L**	Good pharmacy practice in community pharmacy settings	Milena Jurisevic, *Lecturer*
					P	Principles of communications pharmacist- patient	Marko Ravic
	5				**L**	Good pharmacy practice in hospital pharmacy settings	Aleksandra Stojanovic, *Lecturer*
					P	New dimensions of pharmacy practice and care	Katarina Djordjevic
2	6				**L**	Medicines and their preparation	Katarina Mihajlovic, *Lecturer*
					P	Calculations in pharmacy practice	Katarina Djordjevic
	7				**L**	OTC medicine	Aleksandra Stojanovic, *Lecturer*
					P	OTC medicine	Katarina Djordjevic

TEACHING SCHEDULE FOR THE COURSE INTRODUCTION TO PHARMACEUTICAL PRACTICE

module	week	date	time	place	type	the name of the method unit	teacher
	8				L	Basics of radiopharmacy, preparing of cytotoxic drugs and radiopharmaceuticals	Katarina Mihajlovic, *Lecturer*
					P	Basics of radiopharmacy, preparing of cytotoxic drugs and radiopharmaceuticals	Katarina Djordjevic
	9				L	Biotherapeutics	Natasa Mijailovic, *Lecturer*
					P	MAB, biogenerics, biobetters, biosimilar	Bozidar Pindovic
	10				L	Basics of therapeutic drug monitoring	Natasa Mijailovic, *Lecturer*
					P	Basics of therapeutic drug monitoring	Bozidar Pindovic
3	11				L	Organization of preclinical and clinical trials	Tamara Nikolic Turnic, *Lecturer*
					P	Organization of preclinical and clinical trials	Bozidar Pindovic
	12				L	Randomized clinical trials and evidence based medicine	Tamara Nikolic Turnic, *Lecturer*
					P	Randomized clinical trials and evidence based medicine	Bozidar Pindovic
	13				L	Introduction to pharmacoeconomics, pharmacogenomic and pharmacoepidemiology	Radisa Pavlovic, *Lecturer*
					P	Introduction to pharmacoeconomics, pharmacogenomic and pharmacoepidemiology	Teodora Todorovic
	14				L	Introduction to pharmacovigilance and drug safety	Radisa Pavlovic, *Lecturer*
					P	Introduction to pharmacovigilance and drug safety	Teodora Todorovic

TEACHING SCHEDULE FOR THE COURSE INTRODUCTION TO PHARMACEUTICAL PRACTICE

module	week	date	time	place	type	the name of the method unit	teacher
	15				**L**	Repetition and consolidation of previous material	Katarina Mihajlovic, *Lecturer*
					P	Repetition and consolidation of previous material	Teodora Todorovic
						FINAL EXAM	