

GENERAL INFORMATION		
Course	Rational Pharmacotherapy	
Course coordinator	Prof. Martina Smolić, MD, PhD	
Assistant/Associate	Assoc. Prof. Ines Bilić-Čurčić, MD, PhD	
Study Programme	Integrated undergraduate and graduate university study of Medicine in German language	
Status of the course	Mandatory	
Year of study, semester	6th year, 12th semester	
Grading scale and workload	ECTS	4
	Hours (L+S+E)	50 (20+15+15)
COURSE DESCRIPTION		
Course objectives		
<p>Acquiring the knowledge and skills necessary for independent decision-making on the correct choice of medicine in a certain clinical condition. Acquiring knowledge about the specifics of pharmacotherapy in pregnant and lactating women and in elderly people. Synthesis of previous knowledge in the field of basic pharmacology and individual clinical subjects. Synthesis of previous knowledge about side effects of drugs. Acquiring skills on a rational approach to pharmacotherapy.</p>		
Enrolment requirements and entry competencies		
There are no special requirements for this course except those defined by the curriculum of the entire study program.		
Learning outcomes at the Programme level		
1.2., 2.1., 3.3., 4.2.		
Learning outcomes (5-10)		
<ol style="list-style-type: none"> 1. Define the principles of rational pharmacotherapy. 2. Define the conditions that prevail in the health care system with regards to rational drug use. 3. Define the drugs that prevail in the treatment of the most common diseases with regards to rational drug use. 4. Apply the principles of rational pharmacotherapy in the treatment of the most common diseases and conditions. 5. Define the importance of rational drug use for the daily practice, healthcare and for society and understand the significant number of drugs and considerable financial resources spent on the treatment of certain diseases and conditions. 		
Course content		

1. Most common diseases and conditions on the primary level of health care.
2. Principles of rational pharmacology.
3. Pharmacoepidemiology (drug consumption in Croatia).
4. Assessment of risks and benefits in the use of drugs.
5. Evaluation of drugs, monitoring of drug consumption, forms and methods of dispensing drugs, generic drugs, OTC drugs.
6. Vitamins, minerals, trace elements and herbal preparations in modern medicine and the principles of homeopathic treatment.
7. The use of drugs in athletes.
8. Diseases of the cardiovascular, respiratory, hematopoietic, digestive and endocrine systems, pharmacotherapy of painful conditions, psychiatric diseases and disorders, and the most common infections in the domain of primary care in regards to rational use of drugs.

Mode of teaching	<input checked="" type="checkbox"/> lectures	<input type="checkbox"/> independent tasks
	<input checked="" type="checkbox"/> seminars and workshops	<input type="checkbox"/> multimedia and network
	<input checked="" type="checkbox"/> exercises	<input type="checkbox"/> laboratory
	<input type="checkbox"/> distance education	<input type="checkbox"/> mentoring work
	<input type="checkbox"/> field teaching	<input type="checkbox"/> other

Student obligations

Students are expected to attend all class sessions, as well as to prepare for classes by studying the suggested literature related to individual teaching units and actively participate in all forms of teaching. However, they are allowed for excused absences, totalling 30% of all classes.

Monitoring student workAssessment criteria

Attending classes	x	Class activity	x	Seminar work		Experimental work	
Written exam	x	Oral exam	x	Essay		Research	
Project		Continuous knowledge verification		Paper		Practical work	x
Portfolio							

Grading and evaluation of student work during classes and of the final examination

Students' work is evaluated during classes and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During the classes, the student will be able to collect a maximum of 100 evaluation points. Students can earn a maximum of 20 points during classes through different forms of activities. At the final exam, students can obtain a maximum of 80 points. The final grade represents the sum of the grade points achieved during the classes and on the final exam.

Required reading (at the time of application of the study program proposal)

1. Pharmakologie und Toxikologie. Freissmuth M, Offermanns S, Böhm S; 2 edition: 2016.

Additional reading (at the time of application of the study program proposal)

Number of copies of required literature in relation to the number of students currently attending classes in the course

Title	Number of copies	Number of students
Pharmakologie und Toxikologie. Freissmuth M, Offermanns S, Böhm S; 2 edition: 2016.	<p>The purchased license for online textbooks will be used.</p> <p>https://bfdproxy48.bfdonline.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117</p> <p>All students enrolled in the study program will have access.</p>	
Course evaluation procedures that ensure the acquisition of output knowledge, skills and competences		
<p>An anonymous, quantitative, standardized student survey on the quality of the organization and maintenance of classes, course content and teacher work conducted by the Quality Office of the Faculty of Medicine Osijek and a unique university survey conducted by the Quality Center of the University of J.J. Strossmayer in Osijek. The usefulness of the lectures from the students' perspective, the teaching content, the teacher's preparation, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. Administratively, the curriculum and its execution are compared. Student participation in lectures and exercises and the reasons for absences are controlled and analyzed.</p>		