

1.	Subject	PHARMACOLOGY		
2.	Code	DA – 223		
3.	Study program:	Three-year professional studies for graduate obstetricians		
4.	Conducted by	UKIM – Medical Faculty Department of Pharmacology with Toxicology		
5.	Degree of education (first or second cycle)	First cycle		
6.	Academic year/semester	II/IV	7.	Credits
				1
8.	Professor	Chair of the Department Prof. D-r. D.Zafirov *the lessons are held by all the professors of the Department		
9.	Prerequisite			
10.	Goals	<ul style="list-style-type: none"> • Introduction to the subject and the tasks of pharmacology • Gaining knowledge about the pharmacodynamic and pharmacokinetic characteristics of drugs and their mechanisms of action through which they produce their effect • Gaining basic knowledge about specific groups of drugs • Gaining knowledge about the use of drugs in pregnancy, during delivery and lactation • Gaining knowledge about the possible side effects of drugs during pregnancy, delivery and lactation, and minimizing the risks 		
11.	Content summary: Theoretical lessons:	<ul style="list-style-type: none"> • Introduction to pharmacology • Pharmacodynamics and pharmacokinetics • Pain treatment • Antimicrobial therapy • Local and systemic anesthetics • Pharmacovigilance • Rational use of drugs 		
12.	Teaching methods:	Interactive lessons, seminars		
13.	Total classes:	30		
14.	Organization	30		
15.	Types of teaching activities	15.1	Lessons: theoretical classes	30
		15.2	Seminars	
16.	Other types of activities	16.1		
		16.2		
		16.3		
17.	Knowledge assesment	Points		
	17.1	Mid-term exams		Min.-max. 4.2 - 7
	17.1	Tests	Mid term exam*	Min.-max. 12 - 20
			Midterm exam:	

			1 written test (min. 12 – max. 20 points)
	17.2	Final exam	Min. – max. Final exam (written) 36 - 60 Integrated exam that is in a written form
	17.3	Paper/project	Min. – Max. 6 – 10 Writing a paper on a given subject and presenting it orally.
	17.4	Active participation	Min. – Max. 1.8 – 3
18.	Grading criterion (points/grades)	Up to 59	5 (five) F
		60-68	6 (six) E
		69-76	7 (seven) D
		77-84	8 (eight) C
		85-92	9 (nine) B
		93-100	10 (ten) A
19.	Requirements for obtaining a signature and attending the final examination	To obtain a signature the student must gain minimum points from visiting the theoretical lessons and attending seminars. The final grade for the subject is formed according to the table for grading, and is based on the sum of the points from all the activities, mid-term exams, seminars and the final exam.	
20.	Language	Macedonian	
21.	Method of evaluating the quality of the lessons	Students' anonymous evaluation of the subjects, the professors and collaborators who hold the lessons.	
22.	Literature:		
	22.1	Mandatory literature	
		1.	Rang and Dale: H.P.Rang, M.M.Dale, G.M. Ritter, R.G. Flower, Pharmacology (selected chapters); Akademski pechat, Skopje, 2012
		2.	Department of Pharmacology with Toxicology, Authorized lectures
	22.2	Additional literature	
		1.	Lehne's Pharmacology for Nursing Care, 10 th edition, Elsevier, 2019