

1.	Subject	<b>RATIONAL DRUG PRESCRIBING AND NATURAL WAYS OF HEALING</b>		
2.	Code	OM 615		
3.	Study Program	General Medicine		
4.	Institution (Unit, Institute, Chair, Department)	Ss Cyril and Methodius University, Medical Faculty, Department of Pharmacology		
5.	Degree of education (first or second cycle)	Integrated 6-year study		
6.	Study year/semester	Sixth (XI)/ (XII)	7.Number of credits	2
8.	Responsible teacher	Prof. Dimche Zafirov, PhD, MD		
9.	Preconditions	Fullfilled condition for enrollment in the VII semester		
10.	Teaching goals: <ul style="list-style-type: none"> <li>• Gaining knowledge about the basic concept of rational pharmacotherapy;</li> <li>• Making assessment and use of the concept for making a choise for a „personal” medication;</li> <li>• Gaining basic knowledge about the natural ways of healing, especially about the herbal medicines.</li> </ul>			
11.	Brief content:			
	<p><b>Theoretical course:</b></p> <ul style="list-style-type: none"> <li>• Basic principles of rational drug prescribing.</li> <li>• Rational drug prescribing for selected indications.</li> <li>• Natural ways of healing.</li> <li>• Herbal medicines, efficacy and safety associated with the use of the herbal medicines.</li> </ul> <p><b>Practical lessons:</b></p> <ul style="list-style-type: none"> <li>• Evaluation and solving of case-reports by using the concept for making a choise for a „personal” medication for selected diseases (practical excercises and seminars).</li> </ul>			
12.	<p><b>Methods of studying:</b></p> <p>Interactive teaching during lectures, independent study by using textbooks, practical exercises, seminars.</p>			
13.	Total available time:	60 classes		
14.	Organization of the course	40 classes - theoretical course, practical excercises, seminars 20 classes - home individual learning		

15.	Forms of teaching activities	15.1.	Theoretical course	30 classes
		15.2.	Practical course, Seminars	10 classes
16.	Other forms of activities	16.1.	Practice	
		16.2.	Individual tasks	
		16.3.	Individual (home) learning	20 classes
17.	Method of assessment			
17.1	<b>Tests</b>	<b>Continual assessment*</b>		min – max <b>points 12- 20</b>
		*1 written test with case-reported included for individual dosage adjustment (team work)		
	<b>Final exam:</b>	<b>Oral examination</b>		min – <b>points</b>
17.2	Seminar paper/project (oral/written presentation)	Seminars		min – max 12 - 20

17.3	Active participation	<p style="text-align: right;">min – max</p> <p>Theoretical course* <span style="float: right;">1-3</span></p> <p>Practical course** <span style="float: right;">10-16</span></p> <p>*Presence at the theoretical courses:</p> <p>30-50%      1 point</p> <p>51-70%      2 points</p> <p>71-100%     3 points</p> <p>**Practical course:</p> <p>Presence: 4 points</p> <p>Interactive evaluation of knowledge: min. 6 points- max. 10 points</p> <p>Colloquium of a practical exercise: 2 points</p>	
18.	Grading criteria (points / grade)	up to 59 points	5 (five) F
		from 60 to 68 points	6 (six) E
		from 69 to 76 points	7 (seven) D

		from 77 to 84 points	8 (eight) C
		from 85 to 92 points	9 (nine) B
		from 93 to 100 points	10 (ten) A
19.	Requirement for signature and taking the final exam	<p>The student is required to actively follow all of the planned activities.</p> <p><b>Conditional criteria for assessment of knowledge:</b></p> <p>In order to get a signature, the student should obtain minimum points in both theoretical and practical courses, and to present a seminar paper.</p> <p>In order to take the final exam, the student should obtain the minimum points of the continual assessment.</p> <p>If the student has not obtained the minimum points of the continual assessment, he/she will be obligated to pass it before the final exam.</p>	

20.	Language of instruction	Macedonian				
21.	Method of monitoring the quality of teaching process	Anonymous evaluation by the students of the subject, as well of the teachers that participate.				
22.	Textbooks					
		Mandatory				
	22.1.	1.	Rang HP, Dale MM et al.	Rang and Dale's Pharmacology	Elsevier	2013
		2.	Schulz V, Hansel R, Tyler VE	Rational phytotherapy	Spinger-Verlag, Berlin Heidelberg	2001
		Additional				
	22.2.	1.	Capaso F, Gaginela T, Grandolini G, Izzo A.	Phytotherapy, a quick reference to herbal medicine	Springer	2003
		2.	Francetic I, Vitezic D.	Basics of clinical pharmacology	Medicinska naklada, Zagreb	2007
		3.	Zafirovska K et al.	Guidelines for implementing of evidence based medicine	Ministry of Health of R. Macedonia	2012