NAME OF THE COU	RSE	Phytotherapy					
Code	PMB734		Year of study 1				
Course teacher	Valerija Dunkić, PhD, Professor Ana Maravić, PhD, Associate Professor		Credits (ECTS)	3			
Associate teachers	Marija Nazlić, mag.educ.biol. et chem.		Type of instruction (number of hours)	L 15	S	E 15	F
Status of the course	Elective	e course	Percentage of application of e-learning	10			
	-	COURS	E DESCRIPTION	2			
Course objectives	their se analysi of testir	condary metabolites s and chemical com ng antibacterial and	get acquainted with the wi s especially with the essen position. Students will also antifungal activity of secon rmaceutical industry.	tial oils, be acqu	and thei uainted t	r isolatio	on, ethods
Course enrolment requirements and entry competences required for the course	None.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After completing the exam, the student will be able to: Describe the structure and function of secondary metabolites especially in aromatic plants Identify different essential oil chemotypes Introduce the development and application of essential oils Plan an experiment to determine the antimicrobial activity of plant secondary metabolites Perform a series of standard analytical and microbiological laboratory techniques Analyze experiment results Assess the importance of using natural plant products for human health 						
Course content broken down in detail by weekly class schedule (syllabus)	 Assess the importance of daing natural plant products for numan nearing foundation of numan nearing foundation nearing foundation of numan nearing foundation nearing foundation of numan nearing foundation of numan nearing foundation of numan nearing foundation nearing foundation of numan nearing foundation n						

	 5. Application of plant volatile components in phytotherapy 6. Antimicrobial activity determination: Disc-diffusion and microdilution method, 7. Antimicrobial activity determination: Bacterial growth kinetics and biofilm formation assay. 					
Format of instruction	 lectures seminars and workshops exercises on line in entirety partial e-learning field work 			 □ independent assignments □ multimedia ⊠ laboratory □ work with mentor □ (other) 		
Student responsibilities	The student must attend 70% of lectures and actively do 100% of laboratory exercises, and pass a written and oral exam					boratory
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS	Class attendance	0.5	Research		Practical traini	ng 0.5
	Experimental work	1	Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam	1	(Other)	
value of the course)	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	student does no participates in to occasionally acconclusions; ver makes indepen participates in to written exam is total number of (2); 70-79% go	ot particip eaching c tively part ry good (- dent conc eaching, deemed points. S od (3); 80	ate actively in only after the ticipates in th 4) student oft clusions; an e critically refle to be passed coring: <60% 0-89% very go	n the classes; a question is ask e lessons but h en actively part xcellent (5) stu cts and indepen if the student a of students dic bod (4); 90-100	sufficient (2) s ed, a good (3) s ardly makes in cicipates in teac dent almost alw ndently brings o chieves at leas d not satisfy; 60 % excellent (5). practical work,	student dependent shing and often ways actively conclusions. A st 60% of the 1-69% sufficient . The final grade , written and oral
Required literature (available in the library and via other media)		-	Number of copies in the library	Availability via other media		
	D. Kuštrak. Fa marketing – Te Adams, R.P. components spectroscopy. Carol Stream II Relevant scient	hnička kn Identifi by gas Fourth eo _, USA, 20	1			
Optional literature (at the time of submission of study programme proposal)						

Quality assurance methods that ensure the	Quality monitoring will be performed at three levels: (1) University (2) Faculty Level by the Commission for improvement the quality of teaching, (3) teacher level.
acquisition of exit competences	
Other (as the proposer wishes to add)	