Faculty of Civil Engineering and Environmental Sciences									
Field of study								Degree level and programme type	MSc.
Specialization / diploma path								Study profile	Academic profile
Course name	Earoot muchroome in medicine							Course code	IS-FF-00043S
	Forest mushrooms in medicine							Course type	Erasmus
Forms and number of hours of tuition	L	С	LC	Р	sw	FW	S	Semester	Summer
	15		15					No. of ECTS credits	3
Entry requirements	Chemistry, Mycology								
Course objectives	The course covers practical issues related to the use of forest mushrooms - large- fruited and microscopic in medicine, including familiarization with the toxic and therapeutic effects of secondary fungal metabolites as well as issues related to the biotechnological use of forest mushrooms, in particular in the production of antibiotics and food for special medical purposes.								
Course content	Lect Toxi mus Mus ther mus The purp Lab fooc iden used	Lectures: Toxicological significance of large-fruited and microscopic fungi species. Toxic metabolites of fungi. Toxicity groups of mushrooms. Basics of treatment with mushroom poisoning. Characteristics and methods of identification of poisonous mushrooms. Review of the most important species of medical mushrooms. Mushroom growing for medical purposes. Secondary fungal metabolites with therapeutic effect. Medicinal preparations and dietary supplements derived from mushrooms. The use of mushrooms for the production of antibiotics and food for special medical purposes. Laboratory exercises: Identification of selected toxin-producing mushrooms and food-approved species; review of human fungal pathogens and methods for identifying selected groups of parasitic fungi; demonstrations of molecular methods used to identify fungi							
Teaching methods	Info perf	Information and problem lecture with multimedia presentation, laboratory classes - performing tasks and chemical analyzes individually and in a group.							
Assessment method	Lect	Lecture - written test; laboratory exercises - exercise reports and presentation.							
Symbol of learning outcome				Lea	rning	outco	mes		Reference to the learning outcomes for the field of study
L01	Stud obta	dent k aining	nows thera	inno peuti	vative c subs	technc tances	logie fron	es related to	L2P_W04
L02	Student is able to indicate threats related to the toxic   effects of fungi, is able to identify forest medical   mushrooms and use them.								

## COURSE DESCRIPTION CARD

LO3	Student is able to obtain, interpret scientific data from various sources and prepare scientific studies and presentations on their basis.	L2P_U11, L2P_U01		
LO4	Student can interact in a group and define priorities and work plans.	L2P_U13		
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed		
L01	Written test	L	_	
LO2	Evaluation of reports and presentations.	LC		
LO3	Evaluation of reports and presentations.	LC		
LO4	Evaluation of reports and presentations.	LC		
S	No. of hours			
Calculation	participation in lectures	15		
	participation in the laboratory	15		
	consultations	5		
	preparation for the laboratory and reports	20		
	preparation of presentations	5		
	preparation for the written test	15		
	Total:	75		
	Quantitative indicators	Hours	No. of ECTS credits	
Student workload – activities that require direct teacher participation 35				
		00	1,4	
Studer	it workload – practical activities	40	1,4 1,6	
Studer Basic references	nt workload – practical activities Medicinal mushrooms : recent progress in research an Springer Nature, 2019. ISBN : 978-981-13-6381-8 Medicinal mushrooms [Elektronski vir] / Jure Pohleven, Gregori ; [photography by Andrej Gregori [et al.] ; tra El. knjiga Podkoren : MycoMedica, 2016, ISBN 978-5 Smith, J., Rowan, N. and Sullivan, R. 2002. Medicinal I therapeutic properties and current medical usage with treatments. University of Strathelyde, Glasgow,	40 d development. Tamara Koroše nslated by Jure 961-93889-1-4 ( Mushrooms: The special emphas	1,4 1,6 Singapore : ec, Andrej Pohleven] pdf) eir is on cancer	
Studer Basic references Supplementary	nt workload – practical activities Medicinal mushrooms : recent progress in research an Springer Nature, 2019. ISBN : 978-981-13-6381-8 Medicinal mushrooms [Elektronski vir] / Jure Pohleven, Gregori ; [photography by Andrej Gregori [et al.] ; tra El. knjiga Podkoren : MycoMedica, 2016, ISBN 978-5 <i>Smith, J., Rowan,</i> N. and <i>Sullivan, R. 2002. Medicinal I</i> <i>therapeutic properties</i> and <i>current medical usage</i> with <i>treatments.</i> University of Strathelyde, Glasgow, Scientific articles on the therapeutic importance of mus	40 d development. Tamara Korošo nslated by Jure 061-93889-1-4 ( Mushrooms: Tho special emphas hrooms and the	1,4 1,6 Singapore : ec, Andrej Pohleven] pdf) eir is on cancer practical use	
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L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar