NAME OF THE COURSE Virology												
Code	PMB539		Year of s	tudy		3						
Course teacher	PhD Elma Vuko, Assistant Professor			Credits (F								
Associate teachers				Type of instruction (number of hours)		L 15	S 15	E	F			
Status of the course	Elective			Percenta	age of ion of e-learning							
			COUR	SE DESCRI		loannig						
Course objectives	This course covers molecular-biological characteristics of viruses and subviral pathogens, their taxonomic position and the impact on living organisms.											
Course enrolment requirements and entry competences required for the course	Passed exam in Cell Biology											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Critically analyze theories dealing with the origin of the virus Describe adaptation and evolution of the viruses Understand the replication strategies of viral genomes and mechanisms in host defense against pathogens Critically compare the benefits of vaccination versus side effects Understand the occurrence and significance of subviral pathogens 											
Course content broken down in detail by weekly class schedule (syllabus)	Lectures: 1. Introduction to virology. Origin and evolution of the viruses. Viruses and their importance. (3) 2. Virus structure. (3) 3. The infectious cycle. Structure and replicationof viral genomes. (4) 4. Viral vaccines. Antiviral drugs. (2) 5. Subviral pathogens: viroids, satellites, prions.(3) The seminars (15 hours) will cover current topics related to the content of the course.											
Format of instruction	 ☑ lectures ☑ seminars and workshops □ exercises □ on line in entirety □ partial e-learning □ field work □ independent ass □ independent ass □ multimedia □ laboratory □ work with mentor □ (other) 							nents				
Student responsibilities	Class attendance (70%). Seminar attedance (100%).											
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 value of the course)	Class attenda		1	Research			Practical	training				
	Experir work	nental		Report			(Other)					
	Essay			Seminar essay	1		(Other)					
	Tests			Oral exam			(Other)					
	Written			Project			(Other)					
Grading and evaluating student	Active participation of students on classes is scored as follows: inadequate (1) student does not participate actively in the classes; a sufficient (2) student actively											

work in class and at the final exam	participates in teaching only after the question is asked, a good (3) student occasionally actively participates in the lessons but hardly makes independent conclusions; very good (4) student often actively participates in teaching and often makes independent conclusions; an excellent (5) student almost always actively participates in teaching, critically reflects and independently brings conclusions. The final grade is the average grade for participation in classes and grade for seminar work.							
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media					
	Presečki V, Mlinarić-Galinović G, Punda-Polić V, Lukić A. (2002) Virologija. Medicinska naklada, Zagreb							
	Carter JB, Saunders VA (2013) Virology: Principles and Applications, 2nd ed. Wiley, UK. Relevant scientific articles							
Optional literature (at the time of submission of study programme proposal)	Flint J, Vincent R, Racaniello VR, Rall GF, Skalka AM , Enquist LW (2015) Principles of Virology (Volume I Molecular Biology). ASM Press, NW, Washington, DC, USA Flint J, Vincent R, Racaniello VR, Rall GF, Skalka AM , Enquist LW (2015) Principles of Virology (Volume II Pathogenesis and Control). ASM Press, NW, Washington, DC, USA							
Quality assurance methods that ensure the acquisition of exit competences	At the end of the semester, the evaluation of subject and teacher will be conducted through an anonymous student survey. Results will be used to monitor the quality of the course and achievement of the learning outcomes.							
Other (as the proposer wishes to add)								