NAME OF THE COU	Virology												
Code	PMB725			Year of s	tudy	1							
Course teacher	Elma Vuko, PhD, associate Professor			Credits (B	ECTS)	3	3						
Associate teachers				Type of in (number	Type of instruction (number of hours)		S 15	E	F				
Status of the course	Elective			Percenta applicatio	ge of on of e-learning								
COURSE DESCRIPTION													
Course objectives	Understanding molecular-biological characteristics of viruses and subviral pathogens, their taxonomic position and the impact on living organisms. Raising the level of virology knowledge with a special emphasis on current topics in virology with the aim of critical thinking.												
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)	 Critically analyze the theory of viral development Understand virus adaptation and manipulation of host's gene expression Understand strategies for replication of viral genomes. Interpret molecular mechanisms in host defense against pathogens Analyze reprogramme of host cellular signalling pathways and viruses as etiologic factors of human cancer Critically analyze the benefit of vaccination against unwanted consequences Understand characteristics and importance of subviral pathogens 												
Course content broken down in detail by weekly class schedule (syllabus)	 Importance of viruses. Origins and evolution of viruses. Virus structure. Cell entry strategies of viruses. The infectious cycle. Structure and complexity of viral genomes. Virus replication strategies. The role of viruses in human carcinogenesis Viral vaccines. Antiviral drugs. Subviral pathogens: viroids, satellites, prions. 												
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	Active participation in classes and assignments.												
Screening student work (name the proportion of FCTS	Class attendance Experimental		Research		Practical	training							
credits for each	work Essay			Report		(Other)							
activity so that the total number of				Seminar essay	1	(Other)							

ECTS credits is	Tests		Oral exam	1	(Other)						
value of the course)	Written exam	1	Project		(Other)						
Grading and evaluating student work in class and at the final exam	Active participation of students in the classroom is scored as follows: inadequate (1) student does not participate actively in the classes; a sufficient (2) student actively 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 seminar work is rated 1 - 5 according to the evaluation of professor and other students. A written exam is deemed to be passed if the student achieves at least 60% of the total number of points. Scoring: <60% of students did not satisfy; 60-69% sufficient (2); 70-79% good (3); 80-89% very good (4); 90-100% excellent (5). The final grade is the average grade of attendance in the classroom, seminar and written exam.										
Required literature (available in the library and via other media)		Ţ	Number of copies in the library	Availability via other media							
	Presečki V, Mlii Lukić A. (2002) Zagreb	narić-Gali Virologija									
	Carter JB, Saur and Application	nders VA is, 2nd ed									
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 -Various course books, original scintific articles and reviews, data available on websights 										
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)											