

		UNIVERSITY OF EAST SARAJEVO					
		Faculty of Medicine in Foča					
		Study program: medicine					
		Integrated academic studies		study year			
Full subject title		Immunization and vaccination					
Department		Department of Propaedeutics, Faculty of Medicine in Foča					
Subject code		Subject status		Semester		ECTS	
ME-02-2-046-8		elective		VIII		1	
Professor/ -s		Ivan Jovanović, MD PhD, full professor; Aleksandar Arsenijevic, MD PhD, associate professor; Nevena Gajovic, MD PhD, assistant professor					
Associate/ -s							
Number of lectures/ teaching workload (per week)			Individual student workload (in hours per semester)			Coefficient of student workload S ₀ ¹	
L	E	SP	L	E	SP	S ₀	
1	0	0	1*15*1	0*15*1	0*15*1	1	
total teaching workload (in hours, per semester) 1*15 + 0*15 + 0*15 = 15			total student workload (in hours, per semester) 1*15*1 + 0*15*1 + 0*15*1 = 15				
Total subject workload (teaching + student): 15 + 15 =30 hours per semester							
Learning outcomes		Course goals: The aim of this course is to introduce students to the fundamentals of immunization and vaccination..					
		Course outcome: After completing the course, the student is expected to acquire the basic knowledge to: Describe the basic principles of the functioning of the human immune system Explain the principles and importance of vaccination Describe the specifics of vaccination of children					
General competences		<ol style="list-style-type: none">1. They possess broad fundamentals of theoretical knowledge and practical skills, preparing them for any type of postgraduate education as well as for collaboration with other medical professionals.2. They are acquainted with a specific diagnostic algorithm.3. They are capable of making appropriate therapeutic decisions.4. They are capable of expressing themselves and communicating in a manner that is both understandable and acceptable to the patient.5. They are acquainted with health improvement and disease prevention and are eager to make medical professionals adopt more positive attitude towards it.6. They are eager to collaborate with other medical professionals.7. They are able to achieve effective teamwork and develop leadership skills.8. They are conscious of the necessity for continuous learning and improvement process to maintain a high level of medical competence.					
Preconditions		Precondition for taking the exam: all year 1 exams passed					
Teaching methods		Oral lectures					
Subject content per week		Lectures <ol style="list-style-type: none">1. Vaccination.2. History of vaccinations3. Maturation of the immune system 1.4. Maturation of the immune system 2.5. Immune memory6. Active and passive immunization7. Types of vaccines8. Antitumor vaccines					

¹The coefficient of student workload S_o is calculated as it follows:

a) for the study programs not going through the licensing process: $S_o = (\text{total workload in semester for all of the subjects } 900 \text{ hrs} - \text{total teaching workload } L+E \text{ in semester for all of the subjects } 870 \text{ hrs}) / \text{total teaching workload } L+E \text{ in semester for all of the subjects } ______ \text{ hrs} = ______$. Consult form content and its explanation.
b) for the study programs going through the licensing process, it is necessary to use form content and its explanation.

	9. Childhood diseases and vaccination 10. Vaccination calendar 11. Vaccines and respiratory diseases in children 12. Vaccination of immunodeficient children 13. Vaccines and gastrointestinal diseases in children 14. RSV vaccine 15. Other aspects of vaccinations			
Compulsory literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Abul K.Abbas, Andrew H. Lichtman.	Basic Immunology: Functions and Disorders of the Immune System, 6th edition. Elsevier, Philadelphia	2019.		
Helen Chapel, Mansel Haeney, Siraj Misbah, Neil Snowden	Essentials of Clinical Immunology, 6th edition, Blackwell Publishing Ltd,Massachusetts,USA	2014.		
Additional literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Student responsibilities, types of student assessment and grading	Grading policy		Points	Percentage
	Pre-exam activities			
	lecture/exercise attendance		30	30%
	colloquium		20	20%
	Final exam			
	test		50	50%
Total		100	100 %	
Certification date	June 17th 2024			

* the number of necessary rows is added by using *insert mode*