
		UNIVERSITY OF EAST SARAJEVO					
		Faculty of Medicine					
		Study program:medicine					
		Integrated academic studies		II study year			
Full subject title		IMUNOLOGY					
Department		Department of Propedeutics, Faculty of Medicine in Foca					
Subject code		Subject status		Semester		ECTS	
ME-02-1-015-3		compulsory		III		3	
Professor/ -s		Ivan Jovanovic, MD PhD, full professor; Aleksandar Arsenijevic, MD PhD, associate professor; Nevena Gajovic, MD PhD, assistant professor					
Associate/ -s		Nevena Vidojevic, MD, Vladimir Markovic, MD					
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	2	0	1*15*1	2*15*1	0*15*1	1	
total teaching workload (in hours, per semester) 1*15 + 2*15 + 0*15 = 45			total student workload (in hours, per semester) 1*15*1 + 2*15*1 + 0*15*1 = 45				
Total subject workload (teaching + student): 45 + 45 = 90 hours per semester							
Learning outcomes		Mastering the subject, the student will be able to: 1. understands the mechanisms of the immune response to various infectious agents and describes the effector mechanisms of the immune response 2. master the basic techniques of laboratory work. 3. government with basic immunological techniques. 4. understands how to interpret the results of immunological tests.					
General competences		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. They are acquainted with methodology of scientific research. They are capable of acting in accordance with rational and scientific concepts and principles. They are eager to collaborate with other medical professionals.					
Preconditions		Precondition for taking the exam: all year I exams passed					
Teaching methods		Lectures, exercises					
Subject content per week		Lectures: 1. Introduction to the immune system 2. Inborn immunity I 3. Inborn immunity II 4. Taking antigens and presenting the antigens to lymphocytes 5. Identification of antigen in acquired immunity 6. Cellular immune response 7. The effector mechanisms of cellular immunity I 8. The effector mechanisms of cellular immunity II 9. The humoral immune response 10. The effector mechanisms of humoral immunity I 11. The effector mechanisms of humoral immunity II 12. Immune tolerance and autoimmunity 13. The immune response to transplanted tissue 14. Hypersensitivity 15. Immunodeficiency Exercises: 1. Introduction to the immune system 2. Inborn immunity I 3. Inborn immunity II 4. Download antigens and present the antigen to lymphocytes 5. Identification of antigen in acquired immunity 6. Cellular immune response 7. The effector mechanisms of cellular immunity I					

¹Coefficient of student workload S₀ is calculated as it follows:

a) for the study programs not going through the licensing process: S₀ = (total workload in semester for all the subjects 900 hrs – total teaching workload L+E in semester for all the subjects 870 hrs)/ total teaching workload L+E in semester for all the subjects ____ 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.

	8. The effector mechanisms of cellular immunity II 9. The humoral immune response 10. The effector mechanisms of humoral immunity I 11. The effector mechanisms of humoral immunity II 12. Immune tolerance and autoimmunity 13. The immune response to transplanted tissue 14. Hypersensitivity 15. Immunodeficiency			
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.	2019.		
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		15	15%
	colloquium		35	35%
	Final exam			
	test		50	50%
	TOTAL		100	100%
Certification date	June 17th 2024			