
		UNIVERSITY OF EAST SARAJEVO					
		Faculty of Medicine in Foča					
		Study program: medicine					
		Integrated academic studies		IV study year			
Full subject title		Clinical immunology					
Department		Propaedeutics department of Faculty of Medicine in Foča					
Subject code		Subject status		Semester		ECTS	
ME-02-2-043-8		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		mastering the subject, the student will be able to: Describes the immunopathogenesis of chronic and autoimmune diseases, distinguishes the forms of the immune response to various infectious agents and describes the effector mechanisms of the immune response, explains the concepts of immune tolerance, immunology of reproduction, transplantation, explains the mechanisms of immunodeficiency, describes the basic characteristics of immunopharmacological therapy, vaccines, monoclonal antibodies, immunotoxins and cytokine therapy.					
General competences		They have acquired a systemic thinking approach as well as a structured approach to medical problems during their education. They are acquainted with a specific diagnostic algorithm. They are capable of making appropriate therapeutic decisions. They are capable of expressing themselves and communicating in a manner that is both understandable and acceptable to the patient. They are prepared for accepting responsibility and appropriate medical decision-making. They are eager to collaborate with other medical professionals. They are able to achieve effective teamwork and develop leadership skills. 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 5 exams passed					
Teaching methods		Oral lectures					
Subject content per week		Lectures 1. Basic immunology knowledge recapitulation 2. Allergy diseases 3. Urticaria and anaphylaxis 4. Joint and muscles disease 5. Blood and blood vessels diseases 6. Glands with internal secretion diseases 7. GIT diseases 8. Hepatobiliar diseases 9. Kidney diseases 10. Neurological diseases 11. Reproduction immunology 12. Transplantation 13. Immunodeficiency 14. Immunopharmacological therapy, Vaccines 15. Monoclonal antibodies, immunotoxins and cytokines therapy					

¹The coefficient 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 of the subjects 900 hrs – total teaching workload L+E in semester for all of the subjects 870 hrs)/ total teaching workload L+E in semester for all of 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.

Compulsory literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Abul K.Abbas and Andrew H. Lichtman	Basic Immunology: Functions and Disorders of the Immune System, 6th edition. Elsevier, Philadelphia	2019.		
H.Chapel, M. Haeney	Essentials of Clinical immunology, Massachusetts	2014		
Additional literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Jovanovic Marina, Jovanovic Milan	Cytokine production in inflammatory diseases and malignancy of colon. LAP LAMBERT Academic Publishing	2019		
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*