

<i>Name of the course</i>	Infectology			Code	
<i>Type of study program Cycle</i>	Integrated university study, medicine			Year of study	IV
<i>Credits (ECTS) :</i>	8,5	<i>Semester</i>	VIII	Number of hours per semester (1+e+s)	120 (20+35+65)
<i>Status of the course:</i>	mandatory	<i>Preconditions:</i>	Passed all exams of the 3 rd year	<i>Comparative conditions:</i>	
<i>Access to course:</i>	Fourth year medical school students			<i>Hours of instructions:</i>	According to schedule
<i>Course teacher:</i>	Professor Ilija Kuzman, MD, PHD				
<i>Consultations:</i>	Per agreement				
<i>E-mail address and phone number:</i>	ilijakuzman@net.hr tel. 0038591 4012 565				
<i>Associate teachers</i>	Dr. sc. Jadranka Nikolić				
<i>Consultations:</i>	Per agreement				
<i>E-mail address and phone number:</i>	nikolicnikolic@yahoo.com				
<i>The aims of the course:</i>	<p>The principal aims of this course: to inform and teach the students about the importance and the extension, as well as the epidemiological, diagnostic and clinical features of the most important infectious diseases. The focus is on acquiring the knowledge and skills needed to recognize clinical symptoms, differential diagnosis, critical evaluation of laboratory findings and rational treatments. The focus will also be on preventive measures, as well as the protection of medical personnel from infections.</p>				
<i>Learning outcomes (general and specific competences):</i>	<p><u>General competences:</u> Understanding the pathogenesis in order to recognize clinical symptoms, diagnose the infection and determine the appropriate treatment: for example in differential diagnosis - apply the acquired knowledge and skills.</p> <p><u>Specific competences:</u> Applying the knowledge and skills associated with previously acquired clinical knowledge in detecting and interpreting clinical symptoms and signs of infectious diseases. Critically evaluating laboratory methods of rational diagnosis of disease pathogens. Applying knowledge in order to select samples and methods for microbiological treatment, interpret the antibiogram and determine the appropriate treatment. Applying the knowledge and skills in diagnosing and treating infections of all organic systems in adults and children and in immunocompromised patients.</p>				

Course content (Syllabus):	This class involves the study of infectious diseases with the attached subsection of Clinical microbiology. The class is performed in several separate thematic units including lectures, seminars and exercises in small groups. In exercises, students with help from the assistants, will thoroughly examine the patients. Workshops will be organized, ie. patient presentations with interactive participation of students and teachers and a roundtable at the end of the tuition. Students will be evaluated by a written examination from General infectology and a colloquium from Clinical microbiology.			
Format of instruction (mark in bold)	Lectures	Exercises	Seminars	Independent assignments
	Consultations	Work with mentor	Field work	Other
	Remarks:patient presentation (interactive lessons)			
Student responsibilities	<ul style="list-style-type: none"> - Attendance and active participation in all forms of class - lectures, seminars, exercises, workshops, round tables - In exercises: history and clinical overview of patients with planning of laboratory treatment and therapy - Submission of written colloquium from General infectology and Clinical microbiology - Final exam consisting of a practical and oral part 			
Screening student work (mark in bold)	Class attendance	Class participations	Seminar essay	Practical training
	Oral exam	Written exam	Continuous assessment	Essay
Detailed evaluation within a European system of points				
STUDENTS RESPONSIBILITIES	HOURS	PROPORTIONS OF ECTS CREDITS	PROPORTION S OF MARK	
Class attendance and participations	50	2	0%	
Seminar essay	50	2	0%	
Written exam	20	1	10%	
Oral exam	100	3,5	90%	
Furtherclarifications:				
<p>Written colloquium from General Infectology and Clinical Microbiology are mandatory and they are condition for applying for an exam. Colloquium from Clinical microbiology is qualifying and is not expressed in numerical grades. The written colloquium from General infectology has 30 questions. For the excellent evaluation (5) 90%, for very good (4) 80% ,for good (3) 70% and for enough (2) 60% questions should be solved correctly.</p> <p>Grade from General Infectology is only generally accepted by the examiner on the final exam</p>				

and does not contribute to students overall grade in the practical and oral exam.	
The exam, after attending the classes and the passed colloquium, consists of a practical (examination of the patients with interpretation) and the oral part. At the oral part of exam, students need to answer five questions (one from each area): 1. General Infectology, 2. Bacterial Diseases, 3. Zoonosis, 4. Viral Diseases, 5. Other Chapters. Students choose questions by selecting numbers. Evaluation is based on the interpretation of the patient's examination and the answers given to the oral questions.	
Required literature:	1. Begovac J, Božinović D, Lisić M, Baršić B, Schoenwakld S, Bureau. Infectious diseases. Zagreb: Profile, 2006. 2. Kalenić S, office. Medical Microbiology. Zagreb: Medicinska Publishing, 2013.
Optional literature:	1. Kuzman I. Infectology - for high school. Zagreb: Medical Publishing, 2012. 2. Kuzman I. Pneumonia - Causes, Diagnosis, Treatment. Zagreb: Medicinska naklada, 1999. 3. Krkić-Dautović S. Infectology. Sarajevo-Tuzla: Medical Faculty Sarajevo, 2011.
Additional information about the course	Monitoring methods of teaching quality: - student questionnaire - quality analysis by students and teachers - exam results analysis - report of the office for teaching quality - external evaluation (visit of team for quality control)

Annexes: calendar classes

The number of teaching units	TOPICS AND LITERATURE
I.	Title: Introduction and General infectology
	Short description: Definition and positioning of infectology; Basic concepts of infection, route of transmission, symptoms of disease, diagnosis, treatment and prevention
	Literature: Obligatory and supplementary
II.	Title: Antimicrobial treatment
	Short description: Overview of antibiotic groups, clinical guidelines for use
	Literature: Obligatory and supplementary
III.	Title: Symptomatic Treatment

	Short Description: Templates of symptomatic treatment - antipyretics, liquid and electrolyte compensation, other symptomatic measures and procedures
	Literature: Obligatory and supplementary
IV.	Title: Streptococcus and Staphylococcus infections
	Short description: Most common diseases caused by streptococcus and staphylococcus - clinical presentation, diagnosis treatment
	Literature: Obligatory and supplementary
V.	Title: Acute respiratory infections
	Short Description: Size of the problem, clinical syndromes, clinical and laboratory diagnosis, treatment
	Literature: Obligatory and supplementary
VI.	Title: Infectious bowel diseases
	Short Description: Epidemiology, causes, clinical presentation of disease, diagnosis, treatment and prevention
	Literature: Obligatory and supplementary
VII.	Title: Infectious Diseases of CNS
	Short Description: Serous and mucous meningitis, causes, epidemiology, clinical presentation, treatment
	Literature: Obligatory and supplementary
VIII.	Title: Angina
	Short Description: Angina syndrome, causes, clinical manifestation, differential diagnosis, treatment
	Literature: Obligatory and supplementary
IX.	Title: Rash Causes in Infectology
	Short Description: Child rash disease, differential diagnostic of rash accompanied with temperature
	Literature: Obligatory and supplementary
X.	Title: Enterovirus infections
	Short description: Causes, epidemiology, most common clinical manifestation
	Literature: Obligatory and supplementary
XI.	Title: Herpesvirus infections
	Short description: Characteristic pathogenesis and clinic manifestation of disease caused by certain herpesviruses, diagnosis and treatment
	Literature: Obligatory and supplementary
XI.	Title: Diseases caused by bacterial toxins
	Short Description: Pathogenesis, most important diseases - tetanus, botulism, diagnosis, treatment
	Literature: Obligatory and supplementary
XII.	Title: Most common parasitic diseases
	Short Description: Most important diseases with clinical presentation and treatment - Malaria, leishmaniosis
	Literature: Obligatory and supplementary
XIII.	Title: Bacterial and Atypical Pneumonia
	Short Description: Definition and clinical classification, causes, pathogenesis, clinical presentation, treatment

	Literature: Obligatory and supplementary
XIV.	Title: HIV / AIDS
	Short Description: HIV - Pathogenesis, immunology, clinical stage of HIV, opportunistic infection, diagnosis, treatment and prevention
	Literature: Obligatory and supplementary
XV.	Title: Viral hepatitis
	Short Description: Causes, epidemiology, clinical presentation, laboratory diagnostics - hepatitis markers, treatment and prevention
	Literature: Obligatory and supplementary
XVI.	Title: Bacteremia and sepsis
	Short Description: Pathogenesis, causes, clinical presentation, complications, treatment
	Literature: Obligatory and supplementary
XVII.	Title: Zoonosis, including HVBS
	Short description: The most important zoonosis - leptospirosis, brucellosis, HVBS; epidemiology, diagnosis, treatment, prevention
	Literature: Obligatory and supplementary
XVIII.	Title: Hospital Infections
	Short description: Importance of some types of hospital infections - urogenital, hospital pneumonia, sepsis, surgical wound infections; cause, diagnostics, prevention
	Literature: Obligatory and supplementary
XIX.	Title: Snake bites and bites from other poisonous animals
	Short description: Snake bite - pathogenesis, clinical manifestation, prevention and treatment. lactocytes, bites other poisonous animals
	Literature: Obligatory and supplementary
XX.	Title: Microbiological diagnosis of bacterial diseases
	Short Description: Most important bacterial causes, morphological characteristics, clinical manifestation, laboratory diagnostics with practicum
	Literature: Obligatory and supplementary
XXI.	Title: Microbiological diagnosis of viral diseases
	Short description: Most important viral agents, morphological characteristics, clinical presentation, laboratory diagnostic methods with practicum
	Literature: Obligatory and supplementary
XXII.	Title: The most important cause of parasitic diseases
	Short Description: Most important causes, morphological characteristics, clinical manifestation, laboratory diagnostic methods with practicum
	Literature: Obligatory and supplementary