Faculty of Medicine / MEDICINE / CLINICAL MICROBIOLOGY

Course:	CLINICAL MICROBIOLOGY			
Course ID	**Course status**	**Semester**	**ECTS credits**	**Lessons** (Lessons+Exercises+Laboratory)
4846	Mandatory	5	2	1+0+0
Programs	MEDICINE			
Prerequisites	40 ECTS credits in previous year.			
Aims	Study clinical microbiology and understanding important principles of microbiological interpretation.			
Learning outcomes	After completing one semestral course in Clinical Microbiology, student of medicine should have the following learning outcomes: 1. Describes many factors of microorganisms' virulence and associates them with possible complications that can be caused in further treatment of infection, in order to predict and prevent them. 2. Describes and defines various microorganisms that may be etiological pathogens in a particular human system, recognizes monoinfection, polyinfection and superinfection. 3.Recognizes and differs diagnostically a similar disease course in different etiological microorganisms, through the acquired knowledge of clinical microbiology. 4.Uses the acquired knowledge about the mechanisms of resistance and makes the correct choice of antimicrobial medication for a given microorganism. 5. Understands the importance of microorganisms (infections) that cause nosocomial infections and proposing measures for control of hospital infections. 6.Understands the importance of teamwork, information exchange in the treatment of patients from infectious diseases.			
Lecturer / Teaching assistant	prof. dr Vineta Vuksanović			
Methodology	Lectures, seminar papers and case studies, invited speakers, discussion and explanations during lectures, consultations, presence in microbiological laboratory during performing microbiological analysis			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Microbiological diagnosis and interpretation of throat infections.			
I week exercises				
II week lectures	Microbiological diagnosis and interpretation of lung infection.			
II week exercises				
III week lectures	Microbiological diagnosis and interpretation of eye and ear infections.			
III week exercises				
IV week lectures	Microbiological diagnosis and interpretation of skin and soft tissue infection.			
IV week exercises				
V week lectures	Microbiological diagnosis and interpretation of the central nervous system infection.			
V week exercises				
VI week lectures	Microbiological diagnosis and interpretation of urinary infections.			
VI week exercises				
VII week lectures	I test.			
VII week exercises				
VIII week lectures	Microbiological diagnosis and interpretation of bacteremia and sepsis, the importance of insects.			
VIII week exercises				
IX week lectures	Microbiological diagnosis and interpretation of the gastrointestinal tract and food poisoning.			
IX week exercises				
X week lectures	Intrahospital infections, pathogens and the role of microbiological laboratories.			
X week exercises				
XI week lectures	Microbiological diagnosis and interpretation of genital infections.			
XI week exercises				

XII week lectures	Microbiological Diagnosis and interpretation of findings in pregnant women (TORCH, TPHA, BV.
XII week exercises	
XIII week lectures	Microbiological diagnosis and interpretation of viral hepatitis.
XIII week exercises	
XIV week lectures	Microbiological diagnosis and interpretation of infection Immunocompromised patients.
XIV week exercises	
XV week lectures	II test.
XV week exercises	
Student workload	Weekly 2 credits x 40/30 = 2,60h 1 hours of lectures 1 hour and 40 minutes Individual work including consultations In the semester Lectures and final exam: (2.40h x 16 = 42.4h) Necessary preparations: 2.60hx2=5.20h Cumulative course load: 2 x 30 = 60 h Additional work: 12h Load structure: 42.40+5.20+12=60h

Per week	**Per semester**
2 credits x 40/30=2 hours and 40 minuts 1 sat(a) theoretical classes 0 sat(a) practical classes 0 excercises **1 hour(s) i 40 minuts** of independent work, including consultations	Classes and final exam: **2 hour(s) i 40 minuts x 16 =42 hour(s) i 40 minuts** Necessary preparation before the beginning of the semester (administration, registration, certification): **2 hour(s) i 40 minuts x 2 =5 hour(s) i 20 minuts** Total workload for the subject: **2 x 30=60 hour(s)** Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) **12 hour(s) i 0 minuts** Workload structure: **42 hour(s) i 40 minuts (cources), 5 hour(s) i 20 minuts (preparation), 12 hour(s) i 0 minuts (additional work)**
Student obligations	Students are required to attend lectures, to present seminars / clinical cases to pass tests and the final exam.
Consultations	Tuesday from 13:00 to 14:00 h.
Literature	Basic literature: Vineta Vuksanović. Clinical microbiology. University of Montenegro. Podgorica, 2009. Additional literature: Patrick R. Murray, Michael A. Pfaller, Ken S. Rosenthal. Medical microbiology 6th edition 2013.
Examination methods	I. before exams: 50 points. − Attendance at lectures: up to 5 points. − Seminar paper/case report: up to 5 points. − I test: 10-20 points. - II test: 10-20 points. II. Final exam: up to 50 points (≥50% to pass exam) Marks: Passes (≥50 points) F
Special remarks	
Comment	

Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points