



Medicinski fakultet
Faculty of Medicine



UNIVERZITET U BANJOJ LUCI
UNIVERSITY OF BANJA LUKA

UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE	
STUDY PROGRAM	Integrated Academic Studies in Medicine
COURSE TITLE	INFECTIOUS DISEASES
COURSE CODE	INFECTIOUS DISEASES
COURSE STATUS	MANDATORY

Year of study	Winter semester (hours/week)		Summer semester (hours/week)		Seminars (year)	Colloquia (year)	TOTAL hours	ECTS credits
	Lectures	Practice	Lectures	Practice				
4st	1	2	1	2	6	6		8.0

COURSE DESCRIPTION	
Course enrolment requirements and entry competences	<i>No requirements</i>
Aim of the course	-The aim of the course in Infectious diseases is to train students to identify and treat patients suffering from infectious diseases, obtain medical history, perform clinical examinations, identify acute and chronic infectious diseases. -Student should be able to apply their knowledge and skills to further their research and write student scientific papers.
Learning outcomes	A. Knowledge: Students get acquainted with features of infectious diseases, etiology, epidemiology, pathogenesis, clinical picture, clinical manifestations, diagnostic and therapeutic approaches to well known as well as newly detected diseases in common and emergency situations. Through practice, students learn history taking, physical examination of patients with infectious diseases, especially to recognise meningeal symptoms. Good clinical practice and preventive measures are of utmost importance. B. Skills: Students are trained for appropriate history taking, with special emphasis on the present disease with dates and systems in epidemiological questionnaire; respiratory tract examination, especially changes in the oral cavity, tonsilles and lymph nodes; examination of meningeal and neurologic signs; observation of lumbar puncture and reading the cytobiochemical liquor finding, examination of patients with jaundice – liver and spleen palpitation; examination of patients with intestinal infections; assessment of the degree of dehydration; examination of patients with rash and fever; identification of skin efflorescences, clinical manifestations of hemorrhagic fever and initial signs of hemorrhagic diathesis; examination of patients with septic conditions, AIDS. Students learn how to read laboratory findings of blood analyses in certain infectious diseases, as well as results of microbiological and viral findings.
Course content divided into detail by weekly class schedule (syllabus)	I (WINTER) SEMESTAR Lecture = 1 classes (45 min, once a week). Seminar = 2 classes (three per semester)

	<u>1st week</u> Lectures • Introduction to infectious diseases and immunoprophylaxis <u>2st week</u> Lectures • General infectious syndrome, basics of diagnosis and therapy of infectious diseases • Syndrome of infectious diseases <u>3st week</u> Lectures • Unclear febrile states • Differential diagnosis of unclear febrile states <u>4st week</u> Lectures • Rational application of antibiotics <u>5st week</u> Lectures • Rash in infectious diseases • Exanthema infectiosum, Megalerythema epidemicum <u>6st week</u> Lectures • Scarlatina, Morbilli, Rubella, Sy Kawasaki, Varicella <u>7st week</u> Lectures • HIV infection <u>8st week</u> Lectures • HIV/AIDS, treatment and prevention <u>9st week</u> Lectures • Meningitis and meningeal syndrome— general features • Lumbar puncture • Meningitis serosa <u>10st week</u> Lectures • General CNS infection • Bacterial meningitis <u>11st week</u>
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Lectures

- Clear-fluid meningitis
- Prion-induced encephalitis and CNS diseases
- Characteristics of certain types of encephalitis

12st week**Lectures**

- Meningococcal diseases

13st week**Lectures**

- Influenza syndrome, SARS
- Atypical pneumonias

14st week**Lectures**

- Herpes virus infections
- Infectious mononucleosis, cytomegalovirus
- Toxoplasmosis

II (SPRING) SEMESTER

Lecture = 1 classes (45 min, once a week). Seminar = 2 classes (three times per semester)

1st week**Lectures**

- Viral hepatitis – introduction; Hepatitis A, B, C, D, E approach of therapy

2st week**Lectures**

- Fulminant hepatitis and Hepatitis B, D and C – acute
- Hepatitis B and C – chronic

3st week**Lectures**

- General characteristics of intestinal infections

4st week**Lectures**

- Salmonellosis, Campylobacteriosis, Shigellosis, Rota virus

5st week**Lectures**

- Bacterial and amebic dysentery
- Abdominal typhus

6st week

	Lectures - Food poisoning and cholera <u>7st week</u> Lectures - Angina syndrome - Diphtheria, pertussis, parotitis epidemica <u>8st week</u> Lectures - Anthrax, Tetanus, Botulism, Trichinosis <u>9st week</u> Lectures - Poliomyelitis and Rabies <u>10st week</u> Lectures - Infections in pregnancy and screening TORCH <u>11st week</u> Lectures - Zoonoses, Mb.Lyme <u>12st week</u> Lectures - Hemorrhagic fevers, Leptospirosis, Denga <u>13st week</u> Lectures - Brucellosis, malaria, plague <u>14st week</u> Lectures - Septic shock, DIC, MODS, SIRS <u>15st week</u> Lectures - Hospital-acquired infection B. Practical classes - Introduction to infectious diseases - Medical history taking in infectious diseases - Intestinal infections - medical history - Droplet infections - medical history - Unclear febrile states and rash - medical history - CNS infection- medical history - Hepatology - medical history
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	8. Medical history – conclusions 9. Complete physical examination – demonstration 10. Complete physical examination of the abdomen - demonstration 11. Complete physical examination – meningeal and neurologic - demonstration 12. Complete physical examination of the upper respiratory tract – demonstration 13. Complete physical examination of the lower respiratory tract – demonstration 14. Complete hepatologic physical examination – demonstration 15. Differential diagnosis of icterus 16. Differential diagnosis of intestinal infections 17. Differential diagnosis of CNS infections, especially neurologic and neurosurgical diseases 18. Differential diagnosis of unclear febrile states 19. Differential diagnosis of droplet infections 20. Lumbar puncture – demonstration			
Format of instructions <i>(mark with x where is applicable)</i>	Lectures x Practical classes x Laboratory work		Seminars/workshops x E-learning (other)	
Student responsibilities	In accordance to Rules of studying for University of Banja Luka			
Student`s activities and achievement assessment <i>(name the proportion of ECTS credits for each activity to reach total number of ECTS value of the course)</i>	Pre-exam activities		Final exam	
	Lecture attendance	10	Practical exam	10
	Practical work	20	Written exam	10
	Seminars/workshops	20	Oral exam	30
Grading and evaluating student`s work in class and at the final exam	Final grade is composed from the pre-exam activities and Final exam and is derived from total points as follows: Total points 91-100 (final note 10) Total points 81-90 (final note 9) Total points 71-80 (final note 8) Total points 61-70 (final note 7) Total points 51-60 (final note 6) Total points <51 (final note 5)			

Recommended literature	Obligatory (available in the library and via other media)	1. Infectious diseases in: Harrison's Principles of Internal Medicine, 19th Edition. Eds. Dan L. Longo, MD, Dennis L. Kasper, MD, J. Larry Jameson, MD, PhD, Anthony S. Fauci, MD, Stephen L. Hauser, MD, Joseph Loscalzo, MD, PhD. by Mc-Graw-Hill Professional 2017. 2. Harrison's Principles of Self-assessment and board review, 18th Edition. Eds. Dan L. Longo, MD, Dennis L. Kasper, MD, J. Larry
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		Jameson, MD, PhD, Anthony S. Fauci, MD, Stephen L. Hauser, MD, Joseph Loscalzo, MD, PhD. by Mc Graw-Hill Professional 2012. 3. MIMS' PATHOGENESIS OF INFECTIOUS DISEASE. 6th Edition. Anthony A. Nash, Robert G. Dalziel, J. Ross Fitzgerald. by Elsevier 2015 4. Infektivne bolesti, udžbenik za studente medicine. Urednici prof dr Milena Božić, prof dr Ljubiša Dokić, prof dr Svetlana Nikolić, prof dr Milorad Pavlović, prof dr Milan Šašić. Beograd, Medicinski fakultet u Beogradu, 2013
	Optional	

Teaching staff <i>Full name</i>	Associate/Assistant Professors	Teaching Assistants	Medical and Laboratory Technicians
	1 Prof. dr. sc Antonija Verhaz	1 Prof. dr sc Antonija Verhaz	1 Techn.secretar: Stoja Dobraš
Teaching staff responsible for syllabus content	Prof. dr sc Antonija Verhaz		

Quality assurance methods that ensure the acquisition of exit competences for medical students	1. Teaching quality analysis by students and teachers (questionnaires, regular joint meetings) 2. Exam passing rate analysis 3. Internal committee for control of teaching reports (by Faculty of Medicine) 4. External evaluation (by University of Banja Luka)
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