

MEDICAL STUDIES IN ENGLISH

**Detailed schedule of teaching units: lectures, seminars and practicals for
 the subject "Basics of Medical Microbiology and Parasitology" in academic year 2023./2024.**

1. week	
Tuesday, 06. 02. 2024.	
<p>Lecture B1 (4h): Prof. Marija Tonkić, MD. PhD. Introduction to medical microbiology. Bacterial structure, physiology and genetics. Pathogenesis of bacterial diseases. Bacterial antigens and vaccines. 08,30 – 11,30</p>	<p>Practical B1(4h): Introduction to microbiological laboratory and the basics of safe laboratory work. Laboratory-acquired infections. Microscopic examination of principal bacterial shapes. Differential staining in bacteriology. Cultivation of bacteria. Media types. Group 1: 16,00 – 19,00 Maja Kljakić, MD.</p>
Wednesday, 07. 02. 2024.	
<p>Lecture B2 (2h): Prof. Marija Tonkić, MD. PhD Antibacterial agents. Antimicrobial resistance in bacteria. 8,30 – 10,00 Seminar group I</p> <p>Seminar B1 (2h): Prof. Marija Tonkić, MD. PhD. Genera <i>Streptococcus</i>, <i>Staphylococcus</i>, <i>Enterococcus</i> 10,30 – 12,00 Seminar group I</p>	<p>Practical B2 (4h): Performing, reading and interpretation of the antibiogram (disk diffusion method, broth dilution, agar dilution, gradient test). Collecting and inoculating of throat swab. Principles of isolation and identification of pyogenic cocci. Group 1: 13,00 – 16,00 Maja Kljakić, MD</p>
Thursday, 08. 02. 2024.	
<p>Seminar B2 (2h): Prof. Marija Tonkić, MD. PhD Characteristics of bacteria <i>Neisseria</i>, <i>Moraxella</i>, <i>Haemophilus</i> Genera <i>Bordetella</i>, <i>Brucella</i>. 13,30 – 15,00 Seminar group I</p>	<p>Practical B3 (4h): Macroscopic and biochemical identification of <i>Neisseria</i>, <i>Haemophilus</i> Group 1: 15,30 – 18,30 Doris Martinović, MD</p>

Friday, 09. 02. 2024.	
Seminar B3 (2h): Prof. <i>Marija Tonkić</i> , MD. PhD. Characteristics of bacteria from the family <i>Enterobacteriaceae</i> . 8,30 – 10,00 Seminar group I	Practical B4 (4h): Macroscopic and biochemical identification of <i>Enterobacteriaceae</i> . Group 1: 15,30 – 18,30 Maja Kljakić, MD
2. week	
Monday, 12. 02. 2024.	
Seminar B4(2h): A/Prof. <i>Sanja Jakovac</i> , MD. PhD. Gram-negative nonfermenting bacteria – genera <i>Pseudomonas</i> , <i>Acinetobacter</i> 8,30 – 10,00 Seminar group I	
Seminar B5 (2h): Maja Kljakić, MD. Gram-negative, curved, rod-shaped bacteria – genera <i>Vibrio</i> , <i>Helicobacter</i> , <i>Campylobacter</i> . Anaerobic bacteria – genera <i>Clostridium</i> , <i>Actinomyces</i> 10,30 – 12,00 Seminar group I	
Tuesday, 13. 02. 2024.	
	Practical B5 (4h): <i>Pseudomonason</i> OA, resistant strains. <i>Campylobacter</i> - cultivation and microscopy. <i>Vibrio</i> – culture. <i>Helicobacter</i> in tissue sample. Group 1: 08,30-11,30 Maja Kljakić, MD
Wednesday, 14. 02. 2024.	
Lecture B3 (2h): A/Prof. <i>Anita Novak</i> , MD. PhD Gram-negative spiral bacteria – family <i>Spirochaetaceae</i> . Cellwall-defective bacteria – family <i>Mycoplasmataceae</i> . Obligat intracellular bacteria: <i>Rickettsiaceae</i> , <i>Chlamydiaceae</i> 8,30 – 10,00 Lecture B4 (2h): A/Prof. <i>Sanja Jakovac</i> , MD. PhD. Acido-resistant bacteria – genus <i>Mycobacterium</i> . 10,30 – 12,00	.Practical B6 (4h): Specimens collecting, transporting and processing for isolation of mycobacteria. Cultivation of mycobacteria. Group 1: 12,30 – 15,30 A/Prof. <i>Sanja Jakovac</i> , MD. PhD.

Thursday, 15. 02. 2024.

Seminar B6 (2h): A/Prof. Anita Novak, MD. PhD.
Genera – *Bacillus*, *Corynebacterium*, *Listeria*, *Legionella*.
8,30 – 10,00 Seminar group I

Friday, 16. 02. 2024.

Seminar B7 (2h): A/Prof. Anita Novak, MD. PhD.
Multidrug-resistant bacteria.
8,30 – 10,00

Practical B7 (4h) Causes of nosocomial infections. Multidrug-resistant bacteria.
Group 1: **10,30 – 13,30** Maja Kljakić, MD

3. week

Monday, 19. 02. 2024.

KNOWLEDGE TEST (Bacteriology) – exam
8,30 – 9,30, prostoriya

Tuesday, 20. 02. 2024.

Lecture V1 (2h): Prof. Ivana Goić Barišić, MD. PhD.
Introduction to virology. Chemical composition and structure of viruses. Viral antigens and hemagglutination. Replication of viruses.
8,30 – 10,00

Lecture V2 (2h): Prof. Ivana Goić Barišić, MD. PhD.
Pathogenesis of viral diseases. Viral interference and interferon. Chemoprophylaxis and therapy of viral diseases. Viral vaccines. Prions
10,30 – 12,00

Wednesday, 21.02. 2024.	
<p>Seminar V1 (2h) :Prof. <i>Ivana Goić Barišić</i>, MD. PhD. DNA viruses: <i>Parvoviridae, Papovaviridae, Adenoviridae, Poxviridae</i> 8,30 – 10,00 Seminar group I</p> <p>Lecture V3 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. <i>Flaviviridae, Togaviridae, Bunyaviridae, Filoviridae, Arenaviridae.</i> 10,30 – 12,00</p>	<p>Practical V1 (3h): Methods of direct diagnosis of viral diseases Group 1: Maja Kljakić, MD. 13.00-15.15</p>
Thursday, 22. 02. 2024.	
<p>Seminar V2 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD <i>Herpesviridae.</i> Hepatitis B,C and D. 8,30 – 10,00 Seminar group I</p> <p>Seminar V3 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. RNA viruses:<i>Picornaviridae (Enterovirus, Hepatovirus),</i> <i>Caliciviridae, Reoviridae.</i> 10,30 – 12,00Seminar group I</p>	<p>Practical V2 (2h): Methods of indirect diagnosis of viral diseases Group 1: Maja Kljakić, MD. 13.00-14.30</p>
Friday, 23.02.2024.	
<p>Seminar V4 (2h): A/Prof.Sanja Jakovac,MD.PhD. <i>Orthomyxoviridae, Paramyxoviridae, Coronaviridae.</i> 8,30 – 10,00 Seminar group I</p> <p>Seminar V5 (2h):Prof. <i>Ivana Goić Barišić</i>, MD. PhD.<i>Rhabdoviridae,</i> <i>Retroviridae.</i> 10,30 – 12,00 Seminar group I</p>	
4.week	
Monday, 26. 02. 2024.	
<p>KNOWLEDGE TEST (Virology) – exam 8,30 –9,30 x, prostorija</p> <p>Lecture M (2h): A/Prof. Anita Novak, MD. PhD. Introduction to medicalmycology. Morphology and reproduction of the fungi. Fungal diseases - pathogenesis. Antifungal agents 10,30 – 12,00</p>	

Tuesday, 27.02.2024.	
Seminar M (2h): A/Prof. Anita Novak, MD. PhD. Medically important fungi. 8,30 – 10,00 Seminar group I	Practical M (2h): Yeasts and moulds – macro and micromorphology Group 1: 14,00 – 15,30 Maja Kljakić, MD
Wednesday, 28. 02. 2024.	
Lecture P (3h): A/Prof. Anita Novak, MD. PhD. Introduction to medical parasitology. Medical protozoology. Blood and tissue protozoa - genera: <i>Toxoplasma, Plasmodium, Leishmania.</i> 08,30 – 10,45	
Thursday, 29. 02. 2024.	
Seminar P1 (2h): A/Prof. Anita Novak, MD. PhD. Protists of gastrointestinal and urogenital system – genera: <i>Giardia, Entamoeba, Cryptosporidium, Trichomonas.</i> 8,30 – 10,00 Seminar group I	Practical P1 (4h): Diagnosis of toxoplasmosis, leishmaniasis and malaria Group 1: 13,00 – 16,00 Maja Kljakić, MD
Seminar P2 (2h): A/Prof. Anita Novak, MD. PhD. Nematodes and Cestodes: <i>Trichinella, Trichuris, Enterobius, Ascaris, Taenia, Echinococcus.</i> 10,30 – 12,00 Seminar group I	
5. week	
Monday, 04. 03. 2024.	
	Practical P2 (4h): Diagnosis of intestinal parasitosis. Group 1: 08,30 – 11,30 Maja Kljakić , MD.

Tuesday, 05. 03. 2024.	
Wednesday, 06. 03. 2024.	
KNOWLEDGE TEST (Mycology+Parasitology) – exam 8,30 –9,00	
Thursday, 07. 03. 2024.	
KNOWLEDGE TEST other partial exams 9,30 –11,00	Final practical (2h): practical part of the exam group.1
Friday, 08. 03. 2024.	
Oral exam	

OBLIGATORY TEXTBOOK Brooks GF, Carroll KC, Butel JS, Morse SA, Mietzner TA, eds. Jawetz, Melnick and Adelbergs **Medical Microbiology**. 26th ed. New York: McGraw-Hill; 2013.

EXAMS

1. 08.03.2024.

Headofthe Department: Prof. Marija Tonkić, MD. PhD