

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 2025./2026.

1.week	
Tuesday, 10. 02. 2026.	
Lecture B1 (4h): A/Prof. Anita Novak, MD. PhD Introduction to medical microbiology. Bacterial structure, physiology and genetics. Pathogenesis of bacterial diseases. Bacterial antigens and vaccines. 08,30 – 11,30	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.
Wednesday, 11. 02. 2026.	
Lecture B2 (2h): A/Prof. Anita Novak, MD. PhD Antibacterial agents. Antimicrobial resistance in bacteria. 8,30 – 10,00 Seminar group I Seminar B1 (2h): A/Prof. Anita Novak, MD. PhD Genera <i>Streptococcus</i> , <i>Staphylococcus</i> , <i>Enterococcus</i> 10,30 – 12,00 Seminar group I	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
Thursday, 12. 02. 2026.	
Seminar B2 (2h): A/Prof. Anita Novak, MD. PhD Characteristics of bacteria <i>Neisseria</i> , <i>Moraxella</i> , <i>Haemophilus</i> Genera <i>Bordetella</i> , <i>Brucella</i> . 08,30 – 10,00 Seminar group I	Practical B3 (4h): Macroscopic and biochemical identification of <i>Neisseria</i> , <i>Haemophilus</i> Group 1: 15,00 – 18,00 Doris Martinović Rizikalo, MD

Friday, 13. 02. 2026.	
Seminar B3 (2h): Maja Kljakić, MD. PhD. Characteristics of bacteria from the family <i>Enterobacteriaceae</i> . 12,30 – 14,00 Seminar group I	Practical B4 (4h): Macroscopic and biochemical identification of <i>Enterobacteriaceae</i> . Group 1: 15,00 – 18,00 Doris Martinović Rizikalo, MD
2.week	
Monday, 16. 02. 2026.	
Seminar B4(2h): A/Prof. Sanja Jakovac, 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, 17. 02. 2026.	
	Practical B5 (4h): <i>Pseudomonas</i> , resistant strains. <i>Campylobacter</i> - cultivation and microscopy. <i>Vibrio</i> – culture. <i>Helicobacter</i> in tissue sample. Group 1: 08,30-11,30 Ruža Katić, MD
Wednesday, 18. 02. 2026.	
Lecture B3 (2h): A/Prof. Sanja Jakovac, MD. PhD Gram-negative spiral bacteria – family <i>Spirochaetaceae</i> . Cellwall-defective bacteria – family <i>Mycoplasmataceae</i> . Obligate intracellular bacteria: <i>Rickettsiaceae</i> , <i>Chlamydiaceae</i> 8,30 – 10,00 Lecture B4 (2h): A/Prof. Sanja Jakovac, MD. PhD. Acido-resistant bacteria – genus <i>Mycobacterium</i> . 10,30 – 12,00	

Thursday, 19. 02. 2026.

Seminar B6 (2h): A/Prof.Sanja Jakovac, MD. PhD
Genera – *Bacillus*, *Corynebacterium*, *Listeria*, *Legionella*.
12,30 – 14,00 Seminar group I

.

Friday, 20. 02. 2026.

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

Practical B6 (4h): Specimens collecting, transporting and processing for isolation of mycobacteria. Cultivation of mycobacteria. *Bacillus*, *Corynebacterium*, *Listeria*.

Group 1: **10,15 – 13,15** Doris Martinović Rizikalo, MD.

Practical B7 (3h) Causes of nosocomial infections. Multidrug-resistant bacteria.

Group 1: **13,15 – 15,30** Doris Martinović Rizikalo, MD

3.week

Monday, 23. 02. 2026.

KNOWLEDGE TEST (Bacteriology) – exam
8,30 – 9,30 X hall

Tuesday, 24. 02. 2026.

<u>Lecture V1 (2h):</u>Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Introduction to virology. Chemical composition and structure of viruses. Viral antigens and hemagglutination. Replication of viruses. 8,30 – 10,00 <u>Lecture V2 (2h):</u>Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Pathogenesis of viral diseases. Viral interference and interferon. Chemoprophylaxis and therapy of viral diseases. Viral vaccines. Prions 10,30 – 12,00	
<u>Wednesday, 25.02. 2026.</u>	
<u>Seminar V1 (2h) :</u>Prof. <i>Ivana Goić Barišić</i>, MD. PhD. DNA viruses: <i>Parvoviridae, Papovaviridae, Adenoviridae, Poxviridae</i> 8,30 – 10,00 Seminar group I <u>Lecture V3 (2h):</u> Prof. <i>Ivana Goić Barišić</i>, MD. PhD. <i>Flaviviridae, Togaviridae, Bunyaviridae, Filoviridae, Arenaviridae.</i> 10,30 – 12,00	<u>Practical V1 (3h):</u> Methods of direct diagnosis of viral diseases Group 1: Maja Kljakić, MD. 13,00-15,15
<u>Thursday, 26. 02. 2026.</u>	
<u>Seminar V2 (2h):</u> Prof. <i>Ivana Goić Barišić</i>, MD. PhD <i>Herpesviridae.</i> Hepatitis B,C and D. 8,30 – 10,00 Seminar group I <u>Seminar V3 (2h):</u> Prof. <i>Ivana Goić Barišić</i>, MD. PhD. RNA viruses:<i>Picornaviridae (Enterovirus, Hepatovirus), Caliciviridae, Reoviridae.</i> 10,30 – 12,00Seminar group I	<u>Practical V2 (2h):</u> Methods of indirect diagnosis of viral diseases Group 1: Doris Martinović Rizikalo, MD. 13,00-14,30
<u>Friday, 27.02.2026.</u>	

Seminar V4 (2h):. Prof. <i>Ivana Goić Barišić</i>, MD. PhD <i>Orthomyxoviridae, Paramyxoviridae, Coronaviridae.</i> 8,30 – 10,00 Seminar group I Seminar V5 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD <i>Rhabdoviridae, Retroviridae.</i> 10,30 – 12,00 Seminar group I	
4.week	
Monday, 02. 03. 2026.	
KNOWLEDGE TEST (Virology) – exam 8,30 –9,30 x, prostorija Lecture M (2h):. A/Prof.Sanja Jakovac, MD. PhD Introduction to medical mycology. Morphology and reproduction of the fungi. Fungal diseases - pathogenesis. Antifungal agents 12,00 – 13,30	
Tuesday, 03.03.2026.	
Seminar M (2h):. A/Prof.Sanja Jakovac, MD. PhD Medically important fungi. 9,30 – 11,00 Seminar group I	
Wednesday, 04. 03. 2026.	
Lecture P (3h): A/Prof.Sanja Jakovac, MD. PhD Introduction to medical parasitology. Medical protozoology. Blood and tissue protozoa - genera: <i>Toxoplasma, Plasmodium, Leishmania.</i> 10,45 – 13,00	Practical M (2h):Yeasts and moulds – macro and micromorphology Group 1: 08,30 – 10,00 Maja Kljakić, MD
Thursday, 05. 03. 2026.	
Seminar P1 (2h): A/Prof.Sanja Jakovac, MD. PhD Protists of gastrointestinal and urogenital system – genera: <i>Giardia, Entamoeba, Cryptosporidium, Trichomonas.</i> 8,30 – 10,00 Seminar group I Seminar P2 (2h): A/Prof.Sanja Jakovac, MD. PhD	Practical P1 (4h): Diagnosis of toxoplasmosis, leishmaniasis and malaria Group 1: 12,30 – 15,30 Doris Martinović Rizikalo, MD.

Nematodes and Cestodes: <i>Trichinella</i> , <i>Trichuris</i> , <i>Enterobius</i> , <i>Ascaris</i> , <i>Taenia</i> , <i>Echinococcus</i> . 10,30 – 12,00 Seminar group I	
<u>Friday, 06. 03. 2026.</u>	
	<u>Practical P2 (4h):</u> Diagnosis of intestinal parasitosis. Group 1: 08,30 – 11,30 Doris Martinović Rizikalo, MD.
5.week	
<u>Monday, 09. 03. 2026.</u>	
<u>Tuesday, 10. 03. 2026.</u>	
KNOWLEDGE TEST (Mycology+Parasitology) – exam 8,30 –9,00 KNOWLEDGE TEST other partial exams 9,30 –11,00	
<u>Wednesday, 11. 03. 2026.</u>	
Final practical (2h):practical part of the exam group.1	
<u>Thursday, 12. 03. 2026.</u>	
<u>Friday, 13.03. 2026.</u>	
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. 13.03.2026.

Head of the Department: A/Prof. Sanja Jakovac, MD. PhD