

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 **2021./2022.**

1.week	
Tuesday, 08. 02. 2022.	
<p>Lecture B1 (4h): Prof. <i>Marija Tonkić</i>, MD. PhD. Introduction to medical microbiology. Bacterial structure, physiology and genetics. Pathogenesis of bacterial diseases. Bacterial antigens and vaccines. ONLINE platform Google meets: 8,30 – 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: 12,30 – 15,10 A/Prof. Sanja Jakovac, MD. PhD</p>
Wednesday, 09. 02. 2022.	
<p>Lecture B2 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Antibacterial agents. Antimicrobial resistance in bacteria. ONLINE platform GM:8,30 – 10,00 Seminar group I</p> <p>Seminar B1 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. Genera <i>Streptococcus</i>, <i>Staphylococcus</i>, <i>Enterococcus</i> ONLINE platform GM: 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 – 15,40 A/Prof. Sanja Jakovac, MD. PhD</p>
Thursday, 10. 02. 2022.	
<p>Seminar B2 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Characteristics of bacteria <i>Neisseria</i>, <i>Moraxella</i>, <i>Haemophilus</i> Genera <i>Bordetella</i>, <i>Brucella</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p>	<p>Practical B3 (4h): Macroscopic and biochemical identification of <i>Neisseria</i>, <i>Haemophilus</i> Group 1: 11,00 – 13,40 A/Prof. Sanja Jakovac, MD. PhD</p>
Friday, 11. 02. 2022.	
<p>Seminar B3 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. Characteristics of bacteria from the family <i>Enterobacteriaceae</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p>	<p>Practical B4 (4h): Macroscopic and biochemical identification of <i>Enterobacteriaceae</i>. Group 1: 11,00 – 13,40 A/Prof. Sanja Jakovac, MD. PhD</p>

2.week	
Monday, 14. 02. 2022.	
<p>Seminar B4(2h): A/Prof. Anita Novak, MD. PhD. Gram-negative nonfermenting bacteria – genera <i>Pseudomonas</i>, <i>Acinetobacter</i> ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Seminar B5(2h): Prof. Marija Tonkić, MD. PhD. 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> ONLINE platform GM:10,30 – 12,00Seminar group I</p>	
Tuesday, 15. 02. 2022.	
	<p>Practical B5 (4h): <i>Pseudomonas</i> on OA, resistant strains. <i>Campylobacter</i> - cultivation and microscopy. <i>Vibrio</i> – culture. <i>Helicobacter</i> in tissue sample. Group 1: 11,00-13,40 A/Prof. Sanja Jakovac, MD. PhD</p>
Wednesday, 16. 02. 2022.	
<p>Lecture B3 (2h): Prof. Marija Tonkić, MD. PhD. Gram-negative spiral bacteria – family <i>Spirochaetaceae</i>. Cell wall-defective bacteria – family <i>Mycoplasmataceae</i>. Obligate intracellular bacteria: <i>Rickettsiaceae</i>, <i>Chlamydiaceae</i> ONLINE platform GM: 8,30 – 10,00</p> <p>Lecture B4 (2h): A/Prof. Anita Novak,MD.PhD. Acido-resistant bacteria – genus <i>Mycobacterium</i>. ONLINE platform GM: 10,30 – 12,00</p>	
Thursday, 17. 02. 2022.	
<p>Seminar B6 (2h): A/Prof. Anita Novak, MD. PhD. Genera – <i>Bacillus</i>, <i>Corynebacterium</i>, <i>Listeria</i>, <i>Legionella</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p>	<p>Practical B6 (4h):Specimens collecting, transporting and processing for isolation of mycobacteria. Cultivation of mycobacteria. Group 1: 15,30 – 18,10 A/Prof. Sanja Jakovac, MD. PhD</p>
Friday,18. 02. 2022.	
<p>Seminar B7 (2h): A/Prof. Anita Novak, MD. PhD. Multidrug-resistant bacteria. ONLINE platform GM: 8,30 – 10,00</p>	<p>Practical B7 (4h) Causes of nosocomial infections. Multidrug-resistant bacteria. Group 1: 11,00 – 13,40 A/Prof. Sanja Jakovac, MD. PhD</p>

3.week	
Monday, 21. 02. 2022.	
KNOWLEDGE TEST (Bacteriology) – exam 8,30 –9,30X, prostorija	
Tuesday, 22. 02. 2022.	
Lecture V1 (2h): Prof. <i>Marija Tonkić</i> , MD. PhD. Introduction to virology. Chemical composition and structure of viruses. Viral antigens and hemagglutination. Replication of viruses. Multidrug-resistant bacteria. ONLINE platform GM: 8,30 – 10,00	
Lecture V2 (2h): 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 ONLINE platform GM: 10,30 – 12,00	
Wednesday, 23.02. 2022.	
Seminar V1 (2h) : Prof. <i>Ivana Goić Barišić</i> , MD. PhD. DNA viruses: <i>Parvoviridae, Papovaviridae, Adenoviridae, Poxviridae</i> ONLINE platform GM: 8,30 – 10,00 Seminar group I	Practical V1 (3h): Methods of direct diagnosis of viral diseases Group 1: A/Prof. Anita Novak, MD. PhD ONLINE platform GM: 13.00-15.00
Lecture V3 (2h): Prof. <i>Marija Tonkić</i> , MD. PhD. <i>Flaviviridae, Togaviridae, Bunyaviridae, Filoviridae, Arenaviridae.</i> ONLINE platform GM: 10,30 – 12,00	
Thursday, 24. 02. 2022.	
Seminar V2 (2h): Prof. <i>Marija Tonkić</i> , MD. PhD. <i>Herpesviridae.</i> Hepatitis B, C and D. ONLINE platform GM: 8,30 – 10,00 Seminar group I	Practical V2 (2h): Methods of indirect diagnosis of viral diseases Group 1: A/Prof. Anita Novak, MD. PhD. ONLINE platform 13.00-14.20
Seminar V3 (2h): Prof. <i>Ivana Goić Barišić</i> , MD. PhD. RNA viruses: <i>Picornaviridae (Enterovirus, Hepatovirus), Caliciviridae, Reoviridae.</i> ONLINE platform GM: 10,30 – 12,00 Seminar group I	

Friday, 25.02.2022.	
Seminar V4 (2h): Prof. Marija Tonkić, MD. PhD. <i>Orthomyxoviridae, Paramyxoviridae, Coronaviridae.</i> ONLINE platform GM: 8,30 – 10,00 Seminar group I	
Seminar V5 (2h): Prof. Ivana Goić Barišić, MD. PhD <i>Rhabdoviridae, Retroviridae.</i> ONLINE platform GM 10,30 – 12,00 Seminar group I	
4.week	
Monday, 28. 02. 2022.	
KNOWLEDGE TEST (Virology) – exam 8,30 –9,30 x, prostorija	
Tuesday, 01. 03. 2022.	
Holiday	
Wednesday 02. 03. 2022.	
Lecture M (2h): Prof. Ivana Goić Barišić, MD. PhD. Introduction to medical mycology. Morphology and reproduction of the fungi. Fungal diseases - pathogenesis. Antifungal agents ONLINE platform GM: 8,30 – 10,00	
Thursday, 03. 03. 2022.	
Seminar M (2h): A/Prof. Anita Novak, MD. PhD. Medically important fungi. ONLINE platform GM: 8,30 – 10,00 Seminar group I	Practical M (2h): Yeasts and moulds – macro and micromorphology Group 1: 11,00 – 12,30 A/Prof. Sanja Jakovac, MD. PhD
Friday, 04. 03. 2022.	
Lecture P (3h): Prof. Marija Tonkić, MD. PhD. Introduction to medical parasitology. Medical protozoology. Blood and tissue protozoa - genera: <i>Toxoplasma, Plasmodium, Leishmania.</i> ONLINE platform GM: 8,30 – 10,45	Practical P1 (4h): Diagnosis of toxoplasmosis, leishmaniasis and malaria Group 1: 11,30 – 14,10 A/Prof. Sanja Jakovac, MD. PhD
5.week	
Monday, 07. 03. 2022.	
Seminar P1 (2h): Prof. Ivana Goić Barišić, MD. PhD. Protists of gastrointestinal and urogenital system – genera:	Practical P2 (4h): Diagnosis of intestinal parasitosis. Group 1: 14,00 – 16,10 A/Prof. Sanja Jakovac, MD. PhD

<p><i>Giardia, Entamoeba, Cryptosporidium, Trichomonas.</i></p> <p>ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Seminar P2 (2h): A/Prof. Anita Novak, MD. PhD. Nematodes and Cestodes: <i>Trichinella, Trichuris, Enterobius, Ascaris, Taenia, Echinococcus.</i></p> <p>ONLINE platform GM: 10,30 – 12,00 Seminar group I</p>	
Tuesday, 08. 03. 2022.	
Repeating	
Wednesday, 09. 03. 2022.	
KNOWLEDGE TEST (Mycology+Parasitology) – exam 8,30 –9,00	
Thursday, 10. 03. 2022.	
KNOWLEDGE TEST other partial exams 9,30 –11,00	Final practical (2h): practical part of the exam group.1
Friday, 11.03. 2022.	
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. 10.- 11. 03. 2022.

2. 00.07. 2022.

3. 00.07. 2022.

4. 00. 09. 2022.

5. 00. 09. 2022.

Head of the Department:

Prof. Marija Tonkić, MD. PhD