SUBJECT: MEDICAL MICROBIOLOGY II academic year 2024-2025

SCHEDULE & PROGRAMME - LECTURES

Microbiology Lecture: All groups in Main classroom (2nd floor) at the Head building - Friday 14:00-15:30

III (WINTER) SEM	IESTER
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WEEK/DATE	LESSONS (number)	TOPIC
104.10.2024.	Lecture (2)	Introduction in Medical Microbiology. Bacterial taxonomy and general bacterial properties. Bacterial structures (capsule, cell wall).
II 11.10.2024.	Lecture (2)	Bacterial structures, biosynthesis and organization of bacterial cell (spore, flagelum, pilli, etc.). Sterilization, control of sterilization, disinfection.
III 18.10.2024.	Lecture (2)	Bacterial genetic material. Genetic exchange in bacteria: transformation, conjugation and transduction.
IV 25.10.2024.	Lecture (2)	Virulence factors of bacteria (adhesive factors, invasive factors, toxins).
V 01.11.2024.	Lecture (2)	Mechanism of action of antibacterial agents (antibiotics).
		Bacterial resistance to antibacterial agents.
VI 08.11.2024.	Lecture (2)	Physiology of bacterial cells. Bacterial metabolism; nutrition requirements for growth and replication of bacteria.
VII 15.11.2024.	Lecture (2)	Properties of and medical importance of Streptococcus spp. and Enterococcus spp.
VIII 22.11.2024.	Lecture (2)	Properties and medical importance of Clostridium spp.
IX 29.11.2024.	Lecture (2)	Properties and medical importance of Mycobacterium spp.
X 06.12.2024.	Lecture (2)	Properties and medical importance of order Enterobacterales.
		Characteristics and medical importance of Escherichia coli. Characteristics and medical importance of
		opportunistic enterobacteria.

XI 13.12.2024.	Lecture (2)	Properties and medical importance of Haemophilus influenzae, HACEK group and Bordetella pertussis.
XII 20.12.2024.	Lecture (2)	Properties and medical importance of Gram negative non-fermentative bacteria.
XIII 27.12.2024.	Lecture (2)	Properties and medical importance of <i>Neisseria</i> spp. and <i>Moraxella</i> spp. Properties and medical importance of <i>Nocardia</i> spp. and <i>Rhodococcus</i> spp.
XIV 10.01.2025.	Lecture (2)	Properties and medical importance of genus Chlamydia, Mycoplasma, and Ureaplasma.
XV 16.01.2025.	Lecture (2)	Properties and medical importance of <i>Brucella</i> spp. and <i>Francisella</i> spp. Properties and medical importance of the genera <i>Rickettsia, Bartonella, Erhlichia, Anaplasma</i> , and <i>Coxiella</i> .