by protocol №1, 26.08.2024

$Syllabus \ of \ practical \ classes \ in \ Microbiology$ for the 2^{nd} year students within English-speaking medium for the 3^{rd} term for \ Pharmacy \ Faculty

The end of the theoretical course-26.12.24

№	Themes	Time
1.	Introduction in medical microbiology.	
02.09	General characteristics of the Family Enterobacteriaceae.	4 hours
07.09.2024		
2.	Escherichia coli. Morphology, cultural characteristics and biochemical reactions, antigens. Epidemiology, pathogenesis and clinical syndromes. Laboratory diagnosis.	4 hours
09.09 14.09.2024	Causative agents of bacterial dysentery – Shigella: general characteristics, laboratory diagnosis.	
3.	Salmonella – causative agent of typhoid fever and paratyphoid fever. Morphology,	4 hours
16.09	cultural characteristics and biochemical reactions, antigens. Epidemiology,	
21.09.2024	pathogenesis and clinical syndromes. Laboratory diagnosis. Cholera. Characteristics of V. cholerae, classification. Epidemiology and	
21.07.2024	pathogenesis of cholera. Laboratory diagnosis.	
4.	Concluding session.	4 hours
22.00		
23.09 28.09.2024		
5.	Clinical microbiology. Staphylococci: biological properties, factors of	4 hours
3.	pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and	Hours
30.09	prophylaxis.	
05.10.2024	Streptococci and Pneumococci: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis. Neisseria. N. meningitidis: biological properties, factors of pathogenicity, clinical	
	forms of diseases, laboratory diagnosis, treatment and prophylaxis. N.gonorrhoeae: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis.	
6.	Causative agent of diphtheria: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis.	4 hours
07.10 12.10.2024	Whooping cough. B. pertusis and B. parapertusis: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and	
7.	prophylaxis. Mycobacteria. M. tuberculosis: biological properties, factors of pathogenicity,	4 hours
/.	clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis.	T HOUIS
14.10	M. leprae: biological properties, factors of pathogenicity, clinical forms of diseases,	
19.10.2024	laboratory diagnosis, treatment and prophylaxis.	
8.	Concluding session.	4 hours
21.10		
26.10.2024		
9.	Anthrax: biological properties, factors of pathogenicity, clinical forms of diseases,	4 hours
20.10	laboratory diagnosis, treatment and prophylaxis.	
28.10	Plaque. Y.pestis: biological properties, factors of pathogenicity, clinical forms of	
02.11.2024	diseases, laboratory diagnosis, treatment and prophylaxis. Tularemia. F.tularensis: biological properties, factors of pathogenicity, clinical	
	forms of diseases, laboratory diagnosis, treatment and prophylaxis.	
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	Brucellosis. Brucella spp.: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis. Introduction in medical microbiology.	
10. 05.11 09.11.2024	Anaerobic infections: gas gangrene, tetanus, botulism. Microbiological characteristics, laboratory diagnostic, treatment and prevention.	4 hours
11. 11.11	Pathogenic spirochetes. Leptospira: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis. Treponema: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis. Borrelia: biological properties, factors of pathogenicity, clinical forms of diseases, laboratory diagnosis, treatment and prophylaxis.	4 hours
16.11.2024	Pathogenic Mycoplasmas, Chlamydiae, Rickettsiae, Fungi: their role in human pathology, principles of laboratory diagnosis.	
12.	Concluding session.	4 hours
18.11 23.11.2024		
13. 25.11 30.11.2024	Medical Virology. Orthomyxoviruses. Paramyxoviruses. Adenoviruses. Herpesviruses. Taxonomy, biological properties, antigens, epidemiology, pathogenesis, laboratory diagnosis.	4 hours
14. 02.12 07.12.2024	Enteroviruses: Poliovirus, Coxsackieviruses, Echoviruses. Togaviruses. Rabdoviruses. Taxonomy, biological properties, antigens, epidemiology, pathogenesis, laboratory diagnosis.	4 hours
15. 09.12	Viral hepatitis: HAV, HEV, HBV, HCV, HDV. Taxonomy, biological properties, antigens, epidemiology, pathogenesis, laboratory diagnosis. Human immunodeficiency virus: taxonomy, biological properties, replication cycle,	4 hours
14.12.2024	antigens, laboratory diagnosis. Oncogenic viruses.	
16.	Concluding session.	4 hours