CALENDAR-THEMATIC PLAN OF LECTURES

in *MICROBIOLOGY WITH BASIC OF EPIDEMIOLOGY*

(tne name of educational component)

for 2 course*

In specialty «226 Pharmacy and industrial pharmacy»

(code and specialty name) (group code)

(autumn semester 2023-2024)

№	Date	Lesson Name	Volume in hours	Lecturer
MODULE 1. *"General microbiology"*				
1	5.09	Morphology of bacteria. Ultrastructure of bacterial cell. Morphology and biology of actinomycetes and fungus,	2	Ass. of Prof. TishchenkoI.Yu.
2	19.09	Morphology and biology of chlamidies, rikketsias, micoplasma . Morphology and biology of viruses. The concepts of bacteriophages	2	
3	03.10	Physiology of bacteria. Chemical composition of bacterial cell. Bacteria's nutrition and growth. Enzymes of microbes. Respiration.	2	
4	17.10	Phytopathogenic microorga-nisms Microbial contamination of the finished dosage forms.	2	
5	31.10	The fundamentals of immunology. Innate (non- specific) and specific immunity. Immune system.	2	
6	14.11	Microorganisms and the environment. Study about infection. The concepts of epidemiology.	2	
7	28.11	Effects of physical, chemical and biological factors on microorganisms. Asepsis, antisepsis, preservation. Disinfection. Disinfectants. Sterilization. Methods of sterilization	2	
8	12.12	Antimicrobial chemotherapy. Chemotherapeutic drugs. Antibiotics Side effects of antimicrobial medicines.	2	
9	23.01	Immunobiological drugs for prophylaxis and therapy of infectious diseases.Vaccines. .Immune sera.	2	
Total:			**18**	

Note: the lecture takes place at _ Thursday at 10.25-12.05_ on-line_____

(day of the week) (time) (classroom number)

Head of the Department, Professor Nataliia FILIMONOVA

CALENDAR-THEMATIC PLAN

OF PRACTICAL LESSONS

in ***Microbiology with basic of epidemiology*** for 2 course

(tne name of educational component)

In specialty «226 Pharmacy and industrial pharmacy»

(code and specialty name) (group code)

(autumn semester 2022\2023)

№	Date	Lesson Name	Volume in hours Type of activity	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 1. THE CONCEPT OF MICROBIOLOGY. MORPHOLOGY OF MICROORGANISMS. PHYSIOLOGY OF MICROORGANISMS. HUMAN MICROFLORA AND THE ENVIRONMENT. THE DOCTRINE OF INFECTION. THE DOCTRINE OF IMMUNITY.					
1	04.09-08.09	Taxonomy of microorganisms. Classification of microorganisms. Microscopic technicues.	3,PW	-	-
2	11.09-15.09	Morphology of bacteria. Ultrastructure of bacterial cell.	3,PW	3	5
3	18.09-22.09	Morphology and biology of actinomycetes and fungus,	3,PW	3	5
4	25.09-29.09	Morphology and biology of chlamidies, rikketsias, mycoplasma	3,PW	3	5
5	02.10-06.10	Morphology and biology of viruses. The concepts of bacteriophages	3,PW	3	5
6	09.10-13.10	Physiology of bacteria. Chemical composition of bacterial cell. Bacteria's nutrition and growth.	3,PW	3	5
7	16.10-20.10	Physiology of bacteria. Enzymes of microbes. Respiration.	3,PW	3	5
8	23.10-27.10	Study about infection. A role of microbes, environment, social conditions in occurrence and development of infectious process/ the doctrine of epidemiology.	3,PW	3	5
9	30.10-03.11	The fundamentals of immunology. Innate (non- specific) and specific immunity. Immune system.	3,PW	3	5
10	06.11-10.11	Immune reactions. Reactions using labeled antibodies and antigens	3,PW		
11	13.11-17.11	Microorganisms and the environment.	2,PW	3	5
		Final test of CM 1 assimilation	1, PW	3	5

Total from CM 1:				33	55
CONTENT MODULE 2. PHYTOPATHOGENIC MICROORGANISMS. MICROBIAL DISRUPTION OF PLANT MEDICINAL RAW MATERIALS, MICROBIAL CONTAMINATION OF THE FINISHED DOSAGE FORMS. THE BASICS OF CHEMOTHERAPY. THE DOCTRINE OF IMMUNODIAGNOSTICS, IMMUNOTHERAPY AND IMMUNOPROPHYLAXIS OF INFECTIOUS DISEASES.					
12	20.11-24.11	Phytopathogenic microorga-nisms	3,PW	3	5
13	27.11-01.12	Microbial contamination of the finished dosage forms	3,PW	3	5
14	04.12-08.12	Effects of physical, chemical and biological factors on microorganisms. Asepsis, antisepsis, preservation.	3,PW	3	5
15	11.12-15.12	Disinfection. Disinfectants. Sterilization. Methods of sterilization.	3,PW	3	5
16	18.12-22.12	Antimicrobial chemotherapy. Chemotherapeutic drugs. Antibiotics	3,PW	3	5
17	22.12	Side effects of antimicrobial medicines.	3,PW	3	5
18	12.01.	Immunobiological drugs for prophylaxis and therapy of infectious diseases.Vaccines	3,PW	3	5
19	19.01	Immunobiological drugs for prophylaxis and therapy of infectious diseases.Immune sera.	3,PW	3	5
20	26.01	*Final test of CM 2 assimilation*	2,PW	3	5
		CREDIT	1, PW		
			Total from CM 2:	27	45
		Semester credit/Semester differential credit of the module _: "GENERAL MODULE"			
		THE WHOLE AMOUNT OF HOURS FOR THE MODULE 1		**60**	**100**

Head of the Department,
Professor _____Nataliia FILIMONOVA
(signature)