

Confirmed by the Chair session  
 Protocol No. 8 dated «30» December 2021  
 The Head of the department \_\_\_\_\_ Accos. prof. L. Kobylinska

**THEMATIC SCHEDULE**  
**of lectures on elective course “Metabolism of drugs” for the 3<sup>rd</sup> year students of  
 pharmaceutical faculty during the spring term of 2021 – 2022 academic year**

No	The topic	Number of hours	Date
<i>Thematic module 1. “General characteristics of biotransformation of drugs”</i>			
1.	Biochemistry and clinical biochemistry of the liver. Mechanisms of action of hepatoprotective drugs.	2	13.01
2.	Microsomal oxidation. Phases of bio-transformation of Drugs and endogenous toxic compounds. Microsomal oxidation reactions. II phase of biotransformation of medicines. Conjugation reactions in the liver.	2	27.01
<i>Thematic module 2. “Molecular mechanisms of action of drugs. Influence of exogenous and endogenous factors on drug metabolism. Side effects of medicines”</i>			
3.	Antibiotics - inhibitors of transcription and translation, their mechanism of action.	2	10.02
4.	Biochemical and molecular mechanisms of action of non-steroidal anti-inflammatory drugs.	2	24.02
5.	Molecular mechanisms of action of antitumor drugs. Side effects of anticancer therapy.	2	10.03
<b>Totally:</b>		<b>10</b>	

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**THEMATIC SCHEDULE**  
**of seminar classes on elective course “Metabolism of drugs” for the 3<sup>rd</sup> year students of pharmaceutical faculty during the spring term of 2021 – 2022 academic year**

No	The topic	Number of hours	Date
<i><b>Thematic module 1. “General characteristics of biotransformation of drugs”</b></i>			
1.	General characteristics of ADME (Absorption – Distribution – Metabolism – Excretion)	2	20.01
2.	General characteristics phases I and II of drugs biotransformation in liver.	2	3.02
3.	Types of reactions of biotransformation of chemical compounds in the liver.	2	17.02
4.	Inducers and inhibitors of microsomal oxidation.	2	3.03
5.	Characteristics and physiological significance of the main proteolytic enzymes.	2	10.03
<i><b>Thematic module 2. “Molecular mechanisms of action of drugs. Influence of exogenous and endogenous factors on drug metabolism. Side effects of medicines”</b></i>			
6.	Molecular mechanisms of action of antibiotics.	2	17.03
7.	Biochemical and molecular mechanisms of action of non-steroidal anti-inflammatory drugs.	2	24.03
8.	Molecular mechanisms of action of antihypertensive drugs. Their classification according to the mechanism of action.	2	31.03
9.	Molecular mechanisms of action of antitumor drugs. Side effects of anticancer therapy.	2	7.04
10.	Mechanisms for the implementation of the pharmacological action of drugs.	2	14.04
<b>Totally:</b>		<b>20</b>	

