

  
**Volodymyr GELMBOLDT**  
**“29” august 2024 year**

**CALENDAR - THEMATIC PLAN OF PRACTICAL CLASSES**  
**from the course " Biopharmacy" for V – year students**  
**International Faculty for the 2024-2025 academic year**

No i/o	The topic of the lesson and its content	Volume in hours	Group	Who is conducting	Class equipment	Date of the event	Venue
1	2	3	4	5	6	7	8
1.	Biopharmacy as a scientific and educational discipline. Subject and tasks of the discipline. Main indicators of bioavailability of drugs. Factors affecting the bioavailability of drugs.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
2.	The influence of the physical state of drugs on the speed of their release from dosage forms.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
3.	Influence of the nature of excipients on the process of release of drugs from dosage forms.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
4.	The influence of the dosage form on the process of release of medicinal substances from medicinal preparations. Part 1.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
5.	The influence of the dosage form on the process of release of medicinal substances from medicinal preparations. Part 2.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
6.	The influence of the route of administration and simple chemical modification of medicinal substances on the process of their absorption.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department

7.	The influence of technological factors on the rate of dissolution of tablets and the stability of injection solutions. Therapeutic non-equivalence of medicines.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
8.	Pharmaco-technological methods of evaluation of disintegration, solubility and release of medicinal substances from medicinal preparations.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
9.	Bioequivalence of medicines. Assessment of bioequivalence.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
10.	Bioavailability of drugs. Absolute, relative bioavailability. Classification of factors affecting the bioavailability of drugs.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
11.	Molecular weight, solubility, acidity, alkalinity, state of aggregation and polymorphism as physicochemical factors affecting drug bioavailability.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
12.	Effect on bioavailability and therapeutic activity of spatial isomerism and optical properties of medicinal substances.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
13.	Lipophilicity and its influence on pharmacokinetic characteristics and dynamics of bioavailability of drugs.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
14.	Classification of pharmaceutical factors: aggregate state; auxiliary substances (their nature, physical state and quantity). Part 1.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
15.	Classification of pharmaceutical factors: aggregate state; auxiliary substances (their nature, physical state and quantity). Part 2.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
16.	The choice of the dosage form and the route of introduction of the drug into the body. Part 1.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department

17.	The choice of the dosage form and the route of introduction of the drug into the body. Part 2.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
18.	Interaction of medicines with food products. Part 1.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
19.	Interaction of medicines with food products. Part 2.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
20.	Interaction with other medicinal products.	2	5	Iryna LYTVYNCHUK, Volodymyr GELMBOLDT	Presentation Laboratory equipment Reagents	according to the schedule	department
	<b>Total</b>	<b>40</b>					

**The head of the educational part  
of the Department of Pharmaceutical Chemistry  
and Drug Technology**



**Oleksii NIKITIN**