



**CALENDAR PLAN OF LECTURES**  
of the discipline “**PHARMACY-BASED TECHNOLOGY OF DRUGS**”  
for 3-rd year students of the specialty **8.12020101 Pharmacy for foreign**  
**students Ph<sub>m</sub>15 (5,0)**  
for the autumn semester of 2017-2018 ed. year

№	Date	Topic	Amount in a h.	Lecturer
<b>Semantic module 1. “General questions of drugs technology. Powders. Liquid dosage forms.”</b>				
1	06.09.17	Modern requirements to the preparation of non-sterile medicines in pharmacies. General questions of powders technology.	1	ass. prof. Kovalyov V. V.
2	13.09.17	Technological peculiarities of powders preparation with poisonous and strong-effective substances.	1	ass. prof. Kovalyov V. V.
3	20.09.17	Technology of powders with dyeing, aromatic and hardly grinding substances	1	ass. prof. Kovalyov V. V.
4	27.09.17	Technology of powders with extracts and semi-products	1	ass. prof. Kovalyov V. V.
5	04.10.17	Liquid dosage forms. Preparation of concentrated solutions.	1	ass. prof. Kovalyov V. V.
6	11.10.17	Technology of mixtures by dissolving dry medicinal substances and using concentrated solutions.	1	ass. prof. Kovalyov V. V.
7	18.10.17	Special cases of aqueous solutions preparation.	1	ass. prof. Kovalyov V. V.
8	25.10.17	Dilution of standard pharmacopoeial liquids	1	ass. prof. Kovalyov V. V.
9	01.11.17	Technology of drops.	1	ass. prof. Kovalyov V. V.
10	08.11.17	Technology non-aqueous solutions.	1	prof. Khokhlenkova N.V.
11	15.11.17	Technology of HMC solutions.	1	prof. Khokhlenkova N.V.
12	22.11.17	Technology of colloidal solutions.	1	prof. Khokhlenkova N.V.
13	29.11.17	Theoretical basis of suspensions preparation	1	prof. Khokhlenkova N.V.
14	06.12.17	Technological peculiarities of suspensions preparation	1	prof. Khokhlenkova N.V.
15	13.12.17	Theoretical basis of emulsions preparation	1	prof. Khokhlenkova N.V.
16	20.12.17	Technological peculiarities of emulsions preparation	1	prof. Khokhlenkova N.V.
17	27.12.17	Technology of aqueous extractions from medicinal plant raw material	1	prof. Khokhlenkova N.V.
18	03.01.18	Technology of aqueous extractions from extracts – concentrates	1	prof. Khokhlenkova N.V.
		<b>Total</b>	<b>18</b>	

***Time and place: lecture hall No. 7, 12<sup>50</sup>-13<sup>35</sup> (every week).***



**CALENDAR PLAN OF LABORATORY CLASSES**  
of the discipline “**PHARMACY-BASED TECHNOLOGY OF DRUGS**”  
for 3-rd year students of the specialty **8.12020101 Pharmacy for foreign**  
**students Ph<sub>m</sub>15 (5,0)**  
for the autumn semester of 2017-2018 ed. year

№	Date	Topic	Amount in a h., type	Points Min-max
<b>Semantic module 1. “General questions of drugs technology. Powders”</b>				
1	04.09-05.09	General questions of drugs technology. Dosing in pharmacy practice.	3/ lab.	–
2	11.09-12.09	Modern requirements to the powders preparation.	1/ sem.	-
3		Preparation of powders with medicinal substances different in prescribed quantity, bulk weight and structure of the particles.	2/ lab.	2-3
4	18.09-19.09	Preparation of complex powders with poisonous and strong-effective substances. Triturations.	3/ lab.	2-3
5	25.09-26.09	Preparation of complex powders with dyeing substances.	1/ sem.	-
6		Preparation of complex powders with aromatic and hardly grinding substances.	2/ lab.	2-3
7	02.10-03.10	Preparation of complex powders with extracts.	3/ lab.	2-3
8	09.10-10.10	Preparation of complex powders with semi-finished products.	1/ sem.	-
9		<b>MC on the topic “General questions of drugs technology. Powders”</b>	2/ lab.	4-8
			<b>SM 1 total</b>	12-20
<b>Semantic module 2. “Liquid dosage forms”</b>				
10	16.10-17.10	General requirements to the preparation of homogeneous liquid dosage forms in pharmacies. Preparation of concentrated solutions.	3/ lab.	2-3
11	23.10-24.10	General requirements of the mixtures technology.	1/ sem.	-
12		Preparation of liquid dosage forms by using concentrated solutions.	2/ lab.	2-3
13	30.10-31.11	Preparation of liquid dosage forms by dissolution of dry medicinal substances.	3/ lab.	2-3
14	06.11-07.11	Special cases of solutions preparation.	1/ sem.	-
15		Preparation of liquid dosage forms by diluting standard pharmacopoeia liquids.	2/ lab.	2-3
16	13.11-14.11	Drops. Non-aqueous solutions.	3/ lab.	2-3
17	20.11-21.11	Theoretical issues of the HMC and colloidal solutions	1/ sem.	-
18		Preparation of the HMC and colloidal solutions	2/ lab.	2-3
19	27.11-28.11	Preparation of suspensions.	3/ lab.	2-3
20	04.12-05.12	Theoretical issues of the emulsions preparation	1/ sem.	-
21		Preparation of emulsions.	2/ lab.	2-3
22	11.12-12.12	Theoretical basis of preparation aqueous extractions in pharmacies.	3/ lab.	2-3
23	18.12-19.12	Preparation of aqueous extractions from medicinal plant raw material and extracts – concentrates	1/ sem.	-
24		<b>MC on the topic “Liquid dosage forms”</b>	2/ lab.	6-13
			<b>SM 2 total</b>	24-40
25	25.12-26.12	<b>Final module control (practical)</b>	3/ lab.	12-20
26	01.01-02.01	<b>Final module control (theoretical)</b>	2/ lab.	13-20
			<b>Total</b>	60-100