APPROVED
Head of the Department of Pharmaceutical Chemistry and Drug Technology

_____ Volodymyr GELMBOLDT
"29" august 2024 year

CALENDAR - THEMATIC PLAN OF PRACTICAL CLASSES
From the course " MEDICINE TECHNOLOGY " for III – year students
Faculty of Pharmacy for the 2024-2025 academic year

№ 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.	State regulation of the manufacture of medicines in pharmacies. General issues of drug technology.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
2.	Solid dosage forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
3.	Preparation of simple and complex powders with medicinal substances in pharmacies that differ in the prescribed amount, bulk weight and particle structure.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
4.	Production of complex powders with toxic and potent substances. Trituration.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
5.	Production of complex powders with colored, odorous and difficult to grind substances.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
6.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
7.	Preparation of preparations in a pharmacy.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department

8.	Liquid dosage forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
9.	Preparation of concentrated solutions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
10.	Preparation of liquid dosage forms by the bulk method by dissolving dry medicinal substances and using concentrated solutions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
11.	Special cases of preparation of aqueous solutions. Drops.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
12.	Manufacturing of liquid dosage forms by diluting standard pharmacopoeial liquids. Nonaqueous solutions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
13.	Intravenous solutions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
14.	Colloidal solutions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
15.	Suspensions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
16.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
17.	Emulsions.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
18.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department

19.	Infusions and decoctions of medicinal plant materials.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
20.	Mucus. MF technology using extracts-concentrates.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
21.	Soft dosage forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
22.	Liniments and ointments are homogeneous.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
23.	Ointments are heterogeneous.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
24		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
25.	Solving situational and test tasks on state regulation of drug production in pharmacies, General issues of drug technology; Special cases of production of aqueous solutions, drops, HMW solutions, colloidal solutions, suspensions, emulsions, infusions and decoctions from medicinal plant raw materials, slimes, soft medicinal forms, liniments and ointments.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
26.	Combined ointments.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
27.	Creams. Gels.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
28.	Suppositories. Making suppositories by rolling out.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
29.	Sticks. Pills.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department

30.	Manufacturing of suppositories by pouring.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
31.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
32.	Requirements for the manufacture of sterile and aseptic medicines in pharmacies.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
33.	Solutions for injection.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
34.	Solutions for injection that require stabilisation.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
35.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
36.	Isotonic and infusion solutions. Solutions for injection with thermolabile substances.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
37.	Suspensions for injection.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
38.	Eye dosage forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
39.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department

40.	Dosage forms with antibiotics.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
41.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
42.	Children's and geriatric dosage forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
43.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
44.	Solving situational and test tasks for the production of combined ointments, creams, gels, suppositories, pills, sterile and aseptic drugs in the conditions of pharmacies, solutions for injections, suspensions for injections, ophthalmic dosage forms, dosage forms with antibiotics, children's and geriatric medicinal forms.	2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
45.		2	3	Khrystyna HOLUBCHYK	Presentation Laboratory equipment Reagents	according to the schedule	department
Total: *practical* - 90 hours.							

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

Oleksii NIKITIN