

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

**CALENDAR - THEMATIC PLAN OF PRACTICAL CLASSES**  
**From the course " MEDICINE TECHNOLOGY " for IV – 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.	Regulatory documentation in the production of medicinal products.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
2.	Requirements for sterile products.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
3.	Determination of the main quality indicators of ampoule glass.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
4.	Industrial production of injectable solutions.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
5.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
6.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department

7.	Industrial production of infusion solutions.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
8.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
9.	Industrial production of eye, ear and nasal dosage forms.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
10.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
11.	Production of tinctures. Alcoholometry.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
12.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
13.	Production of liquid extracts.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
14.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
15.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
16.	Production of thick and dry extracts. Intensification of extraction processes.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
17.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department

18.	Production of preparations under pressure.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
19.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
20.	Solving situational and test tasks on Industrial production of injection solutions, infusion solutions, ophthalmic dosage forms, ear and nasal dosage forms; Production of tinctures, liquid extracts, thick and dry extracts, preparations under pressure; Alcoholometry.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
21.	Physical, chemical and technological properties of powders and granulates.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
22.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
23.	Production of tablets by direct pressing and with preliminary granulation.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
24.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
25.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
26.	Industrial production of coated tablets. Quality control.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
27.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
28.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department

29.	Production of medical capsules.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
30.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
31.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
32.	Industrial production of soft medicines.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
33.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
34.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
35.	Industrial production of suppositories.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
36.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
37.	Production of patches and TTS.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
38.		2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department

39.	Production of nano- and radiopharmaceuticals.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
40.	Solving situational and test tasks on the Physico-chemical and technological properties of powders, granules; Production of tablets, tablets by direct pressing and pre-granulation, plasters and TTS, nano- and radiopharmaceuticals; Industrial production of coated tablets, medical capsules, soft drugs, suppositories.	2	3	Alona ZAMKOVA	Presentation Laboratory equipment Reagents	according to the schedule	department
<b>Total: <i>practical</i> - 80 hours.</b>							

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



**Oleksii NIKITIN**