


Volodymyr GELMBOLDT
“29” august 2024 year

CALENDAR - THEMATIC PLAN OF LECTURES
the course " MEDICINE TECHNOLOGY " for the fourth -year students
International Faculty in 2024-2025 academic year

№	Study of subject and content	The amount in hours	Group	Who teaches	Date	Equipment classes	Place of classes
1	2	3	4	5	6	7	8
1.	Medicines for parenteral use. Creation of conditions for sterile production. Preparation of containers and sealing means (ampoules, vials).	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
2.	Requirements for raw materials and solvents (production of water for injections in industrial conditions). Preparation of parenteral solutions (isotonization , stabilization).	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
3.	Filtration, sterilization of parenteral solutions. Quality control of these tools.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
4.	Industrial production ophthalmic medicinal forms. Production technology of eye drops, lotions, sprays, soft medicines, inserts. Ear dosage forms.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
5.	Extractive preparations. Stages of extraction. Requirements for extractants.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department

6.	Extraction methods (maceration, remaceration, percolation, flow extraction, circulation extraction.). Extraction with liquefied gases.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
7.	Tinctures. Production of thick, dry extracts. Extracts-concentrates.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
8.	Production drugs under pressure Characteristics, structure of aerosol packaging. Propellants.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
9.	Medical sprays. Technology of aerosol systems. Standardization of storage of drugs under pressure.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
10.	Physico-chemical and technological properties powders and granules.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
11.	Tablets, characteristics and classification. Direct pressing.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
12.	Tablets. Granulation. Types of tablet machines.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
13.	Covering tablets with shells. Pellets pellets Dragee.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
14.	Production of medical microcapsules. Methods of microencapsulation.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
15.	Soft medicines . Characteristics , classification. Ointment bases, auxiliary substances.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
16.	Technology of homogeneous and heterogeneous ointments. Standardization, packing, packaging.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
17.	Industrial production suppositories.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department

18.	Production of medical plasters, characteristics, classification, industrial production . Mustard seeds.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
19.	Transdermal therapeutic systems. General characteristics, classification, systems with controlled release.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
20.	Production nano- and radiopharmaceuticals drugs.	2	4, 5	Zamkovaya A.V.	according to the timetable	The visual material	Department
Total: 30							

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



Oleksii NIKITIN