

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

**CALENDAR - THEMATIC PLAN OF PRACTICAL CLASSES**  
**the course "Pharmaceutical biotechnology" for the V -year students**  
**International Faculty in 2024-2025 academic year**

No	Study of subject and content	The amount in hours	Group	Who teaches	Equipment classes	Date	Place of classes
1	2	3	4	5	6	7	8
1.	Objects and methods of pharmaceutical biotechnology. Analytical research methods in pharmaceutical biotechnology.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
2.	Biotechnological methods of obtaining proteins.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
3.	Pharmaceutical biotechnology of phospholipids, obtaining, use.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
4.	Recombinant DNA biotechnology.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
5.	Pharmaceutical biotechnology of plants.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
6.	Pharmaceutical biotechnology of obtaining amino acids.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
7.	Pharmaceutical biotechnology of obtaining vitamins and coenzymes.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
8.	Pharmaceutical biotechnology of obtaining hormonal drugs.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
9.	Pharmaceutical biotechnology of obtaining antibiotics.	2	4-5	Tetiana LOZHICHEVSKA	The visual material	according to the	Department of Pharm.Chem.

10.	Production technology of immunobiological preparations.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
11.	Biotechnology of production of pharmaceutical preparations from yeast.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
12.	Technology of manufacturing nanopreparations. Liposomal forms of drugs.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
13.	Technology of manufacturing nanopreparations. Liposomal forms of adjuvants and vaccines.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
14.	Requirements for production and quality control of biotechnological preparations.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
15	Final control.	2	4-5	Tetiana LOZHYCHEVSKA	The visual material	according to the timetable	Department of Pharm.Chem.
<b>Total</b>		<b>30</b>					

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



**Oleksii NIKITIN**