

**EDUCATIONAL INSTITUTION
«BELARUSIAN STATE MEDICAL UNIVERSITY»**

**THE DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
WITH ADVANCED TRAINING AND RETRAINING COURSE**

APPROVED at the Department Session
Protocol No6 of January 20, 2026

**CALENDAR-THEMATIC PLAN
OF LECTURES FOR EDUCATIONAL DISCIPLINE
«PHARMACEUTICAL BIOTECHNOLOGY»
II semester 2025/2026 ed. year (6 educational semester)**

№	Тема	Дата
1.	Pharmaceutical biotechnology as a science and a field of production	30.01.2026
2.	Improvement of biological objects by methods of selection, directed mutagenesis, and cellular engineering	06.02.2026
3.	Improvement of biological objects by methods of genetic engineering. Study of the basic principles of recombinant DNA technology	13.02.2026
4.	Molecular mechanisms of intracellular regulation of metabolism of biological objects and their use in biosynthesis of target products	20.02.2026
5.	The biotechnological process of drug production and its features	27.02.2026
6.	Biotechnology of antibiotics, probiotics, amino acids	06.03.2026
7.	Biotechnology of recombinant proteins (using the example of protein and polypeptide hormones)	13.03.2026
8.	Biotechnology of steroid hormones	20.03.2026
9.	Immunobiotechnology	27.03.2026
10.	Features of cell culture in advanced complex eukaryotes. Phytobiotechnology	03.04.2026

Head of the Department of Pharmaceutical
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Retraining Course, Associate Professor, PhD



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