APPROVED BY
Head of Department of
Pharmaceutical technology with a course in
biotechnology – "Ozon Pharmaceuticals"
Partnership Department, PhD, professor
_____ A.V. Kurkina
August 29, 2026

TOPIC P L A N

OF PRACTICAL CLASSES

ON FUNDAMENTALS OF PHARMACEUTICAL DEVELOPMENT

FOR 5TH-YEAR STUDENTS, 9TH SEMESTER, 2026 - 2027 ACADEMIC YEAR

No.	Hours	Date	Topic of the Class
1.	5	07.09.2026	Information search and study of physicochemical and biological properties of APIs.
2.	5	14.09.2026	Preformulation of tablet composition. Compounding model mixtures of API with excipients. Control of technological characteristics of model mixtures.
3.	5	21.09.2026	Modeling of the tableting technological process. Granulation. Drying. Dusting of granules.
4.	5	28.09.2026	Modeling of the technological process. Quality control of granules. Test on the section: The place of pharmaceutical development in the creation of medicinal products. The "Quality by Design" concept.
5.	5	05.10.2026	Modeling of the technological process. Tableting. Determination of critical parameters of the technological process.
6.	5	12.10.2026	Quality control of model tablets. Determination of critical and non-critical quality attributes.
7.	5	19.10.2026	Development and preparation of individual sections of the laboratory batch record.
8.	5	26.10.2026	Pharmaceutical development of parenteral solutions and lyophilizates.
9.	5	02.11.2026	Basic approaches to the pharmaceutical development of biotechnological products. |
10.	5	09.11.2026	Final assessment class.

Head teacher of department, Associate Professor
29.08.2026 L.D. Klimova