

EDUCATIONAL INSTITUTION  
«BELARUSIAN STATE MEDICAL UNIVERSITY»

THE DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

APPROVED at the Department Session  
Protocol No1 of August 31, 2020

CALENDAR-THEMATIC PLAN  
OF LECTURES FOR EDUCATIONAL DISCIPLINE  
«INDUSTRIAL TECHNOLOGY OF DRUGS»  
FOR STUDENTS WITH TRAINING IN ENGLISH  
7 semester 2020/2021 ed. years

No	Theme	Date
1	The development of industrial drugs production in the Republic of Belarus. General principles of the organization of drugs production at pharmaceutical enterprises. Rules of GMP. Normative and technical documentation of drugs production.	7.09.20
2	The main processes of industrial technology, their role in the drugs production. General concepts of machines and devices. Mechanical processes and equipment	14.09.20
3	Hydromechanical processes and equipment. Basics of hydraulics	21.09.20
4	Hydromechanical processes and equipment	28.09.20
5	Heat processes and equipment	05.10.20
6	Mass-exchanging processes and equipment	12.10.20
7	Industrial technology of solid drug forms. Powders and herbal teas production	20.10.20
8	Industrial production of granules	26.10.20
9	Industrial production of dragee	02.11.20
10	Tablets (characteristics and classification). Theoretical bases of tableting. Characteristics of tablet machines. Study of physico-chemical and technological properties of powders and granulates	09.11.20
11	Excipients used in the tablets production. Technological schemes of tablets production. Tests for tablets	16.11.20
12	Tablets coating. Production of molded, multi-layer and matrix tablets	23.11.20
13	Industrial production of capsules. Microencapsulation of drugs	30.11.20
14	Industrial production of semi-solid drugs	07.12.20
15	Industrial production of suppositories and medical pencils	14.12.20
16	Industrial production of patches and mustard plasters	21.12.20

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