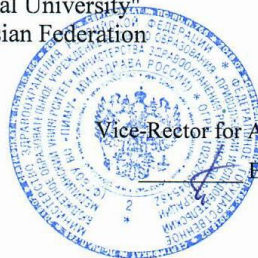


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **INTRODUCTION INTO THE SPECIALTY**

Specialty: **33.05.01 PHARMACY**

Qualification: **PHARMACIST**

Department: **MANAGEMENT AND ECONOMICS OF PHARMACY AND
PHARMACEUTICAL TECHNOLOGY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **36 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty 33.05.01 PHARMACY, approved by Order by Order of the Ministry of Science and Higher Education of the Russian Federation No. 219 of March 27, 2018.

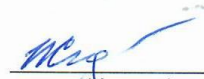
Developers of the working program:

Maxim Alekseevich Mishchenko, PhD in pharmaceutical sciences, associate professor of the Department of management and economics of pharmacy and pharmaceutical technology.

The program was reviewed and approved at the department meeting (protocol No. 9 of 29.04.2021).


Acting head of the Department,
PhD in pharmaceutical sciences

29.04.2021



(signature) I.V. Spitskaya

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.

29.04.2021

1. The purpose and objectives of mastering the academic discipline INTRODUCTION INTO THE SPECIALTY (hereinafter – the discipline):

1.1. The purpose of mastering the discipline – participation in forming the following competencies:

- universal competence (UC-6).

1.2. Tasks of the discipline:

1. Acquaintance of students with a specialty 33.05.01 Pharmacy, the system of higher pharmaceutical education, the place and role of the pharmacist in modern health care in accordance with the requirements for universal, general professional and professional competencies of the pharmacist.

2. Study of the basic concepts and definitions in the field of circulation of medicines.

3. Education by students of basic theoretical and applied knowledge about the essence, methods, means, principles of work in the pharmaceutical industry, as well as in preparing students for the implementation of tasks in pharmaceutical activities.

4. Training of students' knowledge of pharmaceutical organizations, their types, organizational structure, goals, objectives, functions.

5. Review of the historical regularities of the formation of pharmacy as an interdisciplinary field of knowledge, especially the development of domestic and regional pharmacy and the prospects for its development.

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- basic concepts and professional terminology related to the specialty 33.05.01 Pharmacy;
- the system of training pharmacists under the specialty program 33.05.01 Pharmacy and the system of postgraduate education;
- directions of professional activity of the pharmacist in various fields of modern pharmacy and medicine;
- the possibilities of the socio-cultural environment of the educational organization;
- methods of effective time planning;
- potential strengths and weaknesses of the individual;
- effective ways of self-learning;
- criteria for assessing the success of the individual.

Be able to:

- draw up long-term and short-term plans;
- analyze life situations and set priorities;
- organize your time;
- form a portfolio;
- plan your professional trajectory;
- plan your life for the period of study in an educational organization;
- identify obstacles that prevent success;
- assess your competitiveness.

Possess:

- name and their prices
- skills to independently identify motives and incentives for self-development and education throughout life, while defining realistic goals for professional growth;
- skills in determining and implementing the priorities of their own professional activities and ways to improve them on the basis of self-esteem and continuing education.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline refers to the part formed by the participants of educational relations of Block 1 of GEP HE (B1.PER.8).

The discipline is taught in the 1 semester/1 year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

- biology (school course);
- chemistry (school course).

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

- management and economics of pharmacy;
- information support of the life cycle of medicines;
- information technologies in pharmacy;
- general pharmaceutical technology;
- pharmacognosy;
- pharmaceutical chemistry;
- pharmacology;
- medical and pharmaceutical commodity science;
- organization of drug provision to the population;
- state registration and examination of medicinal products;
- state control and supervision in the field of circulation of medicines;
- legal basis of the pharmacist's activities;
- pharmaceutical consulting and information;
- pharmaceutical propaedeutic practice;
- pharmacognosy practice;
- general pharmaceutical technology practice;
- practice in pharmaceutical technology;
- practice for quality control of medicines;
- practice of management and economics of pharmaceutical organizations;
- practice of pharmaceutical consulting and information.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) competence

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-6	Able to determine and implement the priorities of own activities and ways to improve it on the basis of self-assessment and lifelong education	UC-6.1. Evaluates its resources and their limits (personal, situational, temporary), optimally uses them for successful execution of the assigned task UC-6.2. Determines the priorities of professional growth and ways to improve their own activities based on self-assessment according to the selected criteria UC-6.3. Builds a flexible professional trajectory using the tools of continuing education, taking into account the accumulated experience of professional activity and dynamically changing labor market requirements	<ul style="list-style-type: none"> – basic concepts and professional terminology related to the specialty 33.05.01 Pharmacy; – the system of training pharmacists under the specialty program 33.05.01 Pharmacy and the system of postgraduate education; – directions of professional activity of the pharmacist in various fields of modern pharmacy and medicine; – the possibilities of the socio-cultural environment of the educational organization; – methods of effective time planning; – potential strengths and weaknesses of the individual; – effective ways of self-learning; – criteria for assessing the success of the individual. 	<ul style="list-style-type: none"> – draw up long-term and short-term plans; – analyze life situations and set priorities; – organize your time; – form a portfolio; – plan your professional trajectory; – plan your life for the period of study in an educational organization; – identify obstacles that prevent success; – assess your competitiveness. 	<ul style="list-style-type: none"> – skills to independently identify motives and incentives for self-development and education throughout life, while defining realistic goals for professional growth; – skills in determining and implementing the priorities of their own professional activities and ways to improve them on the basis of self-esteem and continuing education.

4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UC-6	Introduction to the specialty	The concept of the specialty "Pharmacy". How to become a pharmacist - a specialist with a higher pharmaceutical education. The place of pharmacy in the health care system. The role of the pharmacist in the system of drug provision. The role of the pharmacist in promoting a healthy lifestyle. The system of

		<p>pharmaceutical education in the Russian Federation. The system of higher pharmaceutical education in the Russian Federation. The Federal State Educational Standards in the specialty "Pharmacy". Knowledge necessary for a pharmacist in professional activities. Professional standards of pharmacists. Basic pharmaceutical terms and concepts. The concept of circulation of medicines. The concept of research work in the pharmaceutical industry. Ways to create new drugs. Global trends in the development of pharmaceutical science and the pharmaceutical industry. Knowledge necessary for a pharmacist in professional activities in the field of searching for new medicines. The concept of the activities of the pharmacist: pharmaceutical production, pharmaceutical activities, regulatory and control and supervisory activities, pedagogical activity. Knowledge necessary for a pharmacist in professional activities in various areas. The connection of pharmacy with other industries. The concept and directions of pharmaceutical activity. The concept of wholesale and retail trade in medicines and other pharmacy products. Types of pharmacy organizations. Pharmacy chains. The concept of dispensing medications. The concept of a recipe. History of the recipe. Disciplines necessary for the work of a pharmacist in the field of pharmaceutical activity. State regulation of pharmaceutical activities as an element of the system of public health protection. Pharmaceutical specialist and his role in the system of circulation of medicines. Pharmaceutical specialist and responsible self-medication. Pharmaceutical specialist and regulatory regulation of his activities.</p>
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5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	
Classroom work, including	0,61	22	22
Lectures (L)	0,17	6	6
Laboratory practicum (LP)*	Laboratory practicums are not stipulated		
Practicals (P)	0,44	16	16
Seminars (S)	Seminars are not stipulated		
Student's individual work (SIW)	0,39	14	14
Mid-term assessment			
credit/exam (<i>specify the type</i>)			credit
TOTAL LABOR INTENSITY	1	36	1

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					total
		L	LP	P	S	SIW	
1	Introduction to the specialty	6		16		14	36
	TOTAL	6		16		14	36

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student’s individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

No	Name of lecture topics	Volume in AH
		1
1.	The system of higher pharmaceutical education in the Russian Federation. GEF in the specialty "Pharmacy"	1
2.	Basic pharmaceutical terms and concepts	1
3.	State regulation of pharmaceutical activities as an element of the system of public health protection	1
4.	Pharmaceutical specialist and his role in the system of circulation of medicines	1
5.	Pharmaceutical specialist and responsible self-medication	1
6.	Pharmaceutical specialist and regulatory regulation of his activities	1
	TOTAL (total – 6 AH)	6

6.2.2. The thematic plan of laboratory practicums

Laboratory practicums are not stipulated.

6.2.3. Thematic plan of practicals

No	Name of the topics of practicals	Volume in AH
		1
1.	The system of higher pharmaceutical education in the Russian Federation. GEF in the specialty "Pharmacy"	2
2.	Basic pharmaceutical terms and concepts	4
3.	State regulation of pharmaceutical activities as an element of the system of public health protection	2
4.	Pharmaceutical specialist and his role in the system of circulation of medicines	2
5.	Pharmaceutical specialist and responsible self-medication	2
6.	Pharmaceutical specialist and regulatory regulation of his activities	2
7.	CREDIT	2
8.	TOTAL (total – 16 AH)	16

6.2.4. Thematic plan of seminars

Seminars are not stipulated.

6.2.5. Types and topics of student’s individual work (SIW)

No	Types and topics of SIW	Volume in AH
		1
1.	Working with literature and other sources of information on the studied section	6
2.	Assignments in the form of reports and speeches	4
3.	Working with electronic educational resources	4
4.	TOTAL (total – 14 AH)	14

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Types of control	Name of section	Assessment formats
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	Semes ter No.		of academic discipline	types	number of test questions	number of test task options
1	2	3	4	5	6	7
1.	1	Current monitoring: Control of mastering the topic Monitoring the student's individual work	Introduction to the specialty	Test work	5	5
2.	1	Mid-term assessment		Credit	3	40

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	The system of legislative regulation of circulation of medicines: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 77 p.	electronic resource	
2	Fundamentals of state legislation on manufacturing of medicines: Textbook / M M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 56 p.	electronic resource	
3	Fundamentals of state legislation on pharmaceutical activities: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 50 p.	electronic resource	
4	The concept of good practices in the pharmaceutical regulatory system: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 57 p.	electronic resource	
5	Fundamentals of pharmaceutical economics: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 125 p.	electronic resource	
6	Prices and pricing in the pharmaceutical market: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 77 p.	electronic resource	
7	Product policy of a pharmaceutical organization: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 90 p.	electronic resource	

8	Fundamentals of planning economic indicators: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 78 p.	electronic resource
9	Planning of trade turnover of a pharmaceutical organization: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 78 p.	electronic resource
10	Planning of distribution costs of a pharmaceutical organization: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 60 p.	electronic resource
11	Income and profit planning of a pharmaceutical organization: Textbook / M.A. Mishchenko, E.V. Shalenkova, A.A. Ponomareva, N.N. Chesnokova, S.V. Kononova. – Nizhny Novgorod, 2021. – 70 p.	electronic resource
12	Accounting of financial and economic activities of a pharmacy organization: Textbook / M.A. Mishchenko, S.V. Kononova, N.N. Chesnokova, A.A. Ponomareva, E.V. Shalenkova. – Nizhny Novgorod, 2022. – 74 p.	electronic resource
13	Specific issues of accounting for the property of a pharmacy organization: Textbook / M.A. Mishchenko. – Nizhny Novgorod, 2022. – 50 p.	electronic resource
14	Basic principles of accounting of settlements with the personnel of a pharmacy organization: Textbook / M.A. Mishchenko. – Nizhny Novgorod, 2022. – 50 p.	electronic resource
15	The tax concept and tax management of pharmaceutical organizations: Textbook / M.A. Mishchenko. – Nizhny Novgorod, 2022. – 52 p.	electronic resource

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	The medicine lifecycle concept: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 80 p.	electronic resource	
2	Information technologies in the medicine lifecycle management: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 99 p.	electronic resource	
3	Evaluating the quality of pharmaceutical information: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 98 p.	electronic resource	
4	Analysis and processing of pharmaceutical information: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 95 p.	electronic resource	
5	Post-marketing evaluation of medicinal products – pharmacoepidemiology: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. –	electronic resource	

	Nizhny Novgorod, 2020. – 53 p.	
6	Post-marketing evaluation of the medicinal products – pharmacoeconomics: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 107 p.	electronic resource
7	Post-marketing evaluation of medicinal products – pharmacovigilance: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 70 p.	electronic resource
8	Fundamentals of the state regulation of pharmaceutical information that is advertising: Textbook / M.A. Mishchenko, S.V. Kononova, A.A Ponomareva. – Nizhny Novgorod, 2020. – 109 p.	electronic resource

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Internal electronic library system (IELS) http://nbk.pimunn.net/MegaPro/Web	Works of university teaching staff: textbooks, manuals, collections of tasks, teaching aids, laboratory works, monographs, collections of scientific works, scientific articles, dissertations, abstracts of dissertations, patents	From any computer and mobile device with individual login and password. Access mode: http://nbk.pimunn.net/MegaPro/Web	Not limited

8.3.2. Electronic educational resources acquired by the University

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Electronic legal reference system "Consultant Plus" (contract for free) http://www.consultant.ru	Regulatory documents regulating the activities of medical and pharmaceutical institutions From the scientific library computers	Access mode: http://www.consultant.ru/	Not limited Term of validity: Unlimited

8.3.3 Open access resources

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1	PubMed https://www.ncbi.nlm.nih.gov/pubmed	US National Library of Medicine search engine for Medline, PreMedline databases	From any computer and mobile device. Access mode: https://www.ncbi.nlm.nih.gov/pubmed Not limited

2	Scopus database www.scopus.com	International abstract database of scientific citation From university computers, from any computer by individual login and password	Access mode: www.scopus.com Not limited
3	Web of Science Core Collection https://www.webofscience.com	International abstract database of scientific citation. From university computers, from any computer by individual login and password.	Access mode: https://www.webofscience.com Not limited

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

1. Classes for lectures and practical classes, equipped with multimedia and other means of training, allowing the use of simulation technologies, with standard sets of professional models (sets of protocols of clinical trials, formulary lists of LPU, price lists of distribution companies, sets of quality of life questionnaires), allowing students to master the skills and abilities, provided by professional activity, individually.

2. Simulation center "Educational pharmacy", equipped with simulation technics, which imitates the activity of pharmacy and its subdivisions (acceptance of goods, storage of goods, dispensing, pharmaceutical expertise of receipt) in the amount that allows students to master skills, provided by professional activity individually.

3. Rooms for students' independent work, equipped with computers with the ability to connect to the Internet and access to the electronic information and educational environment of the University.

9.2. List of equipment for classroom activities for the discipline

1. Multimedia complex (laptop, projector, screen, TV)

2. Computer class (15 computers) with installed applications and Internet access.

9.3. List of software

1. Online event platform "Webinar"

2. Yandex Browser

3. Reference system "Consultant Plus"

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user	220	Office Application	LLC "NEW CLOUD TECHNOLO	283	without limitation, with the right

	license for educational organizations, with no expiration date, with the right to receive updates for 1 year.			GIES"		to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
Name of the department

CHANGE REGISTRATION SHEET

working program for the academic discipline
NAME OF THE ACADEMIC DISCIPLINE

Field of study / specialty / scientific specialty: _____ (code, name)

Training profile: _____
(name) - for master's degree programs

Mode of study: _____
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department

department name, academic title

signature

print name