

The catalog of elective disciplines for 2022-2023 academic year

1. The department of Pharmacognosy

2. Level of training: magistracy

3. Specialty: 6M110400 «Pharmacy»

4. Course: 1 (profile direction)

5. Name of elective discipline: «Standardization of medicinal plant raw materials and phytomedicines»

6. Amount of credits: 4

7. Purposes: - Formation of theoretical knowledge (cognitive component)

- Mastering the general importance of medicinal plants and medicinal plant raw materials as a source of biologically active compounds used in standardization in modern herbal medicine;

- Mastering the general concept and concept of standardization, standards, the concept of registration, re-registration and certification of pharmaceutical products from medicinal products in the Republic of Kazakhstan;

- Mastering legal competence by familiarizing yourself with the regulatory documents that regulate the quality, efficiency and safety of medicinal products and medicinal products;

- Motivated training of undergraduates for continuous improvement and development of abilities for independent and creative mastering of materials on medicinal plant raw materials;

- Study of quality indicators for finished dosage forms.

8. Tasks:

- orientation in properties and the chemical composition of herbs according to constantly growing demand in quality phytoproducts and medicinal plant raw materials;

- orientation in properties and the chemical composition of the products of animal and mineral origin which are widely used in a modern arsenal the therapeutic of medicines;

- to give a general idea to undergraduates about medicinal products used in standardization in phytotherapy and entered in the Register of the Republic of Kazakhstan;

- mastering and familiarization with practical, communication and legal skills of students with the basic provisions on medicinal herbal raw materials and medicinal plants and finished from them, dosage forms used in standardization in the Republic of Kazakhstan;

- legal acquaintance of students with the problems of medicinal plants used in standardization in the form of finished dosage forms in traditional medicine, disclosure of scientific approaches to their solution.

9. Discipline content:

Standardization and quality control of medicinal plant raw materials. General presentation and concept of standardization, standards, concept of registration, re-registration and certification of pharmaceutical products from LRS in the Republic of Kazakhstan. General presentation of the required quality indicators of the finished

pharmaceutical products. Characteristics of dosage forms based on native ground raw materials. Medicinal plant collecting.

10. Justification of the choice of discipline:

Ensuring the proper quality of medicinal plant raw materials largely depends on the correct organization of control, its effectiveness and efficiency, as well as on the level of requirements laid down in regulatory documents (GF, AED, VAND) and the analysis methods used. The study of the system of quality standards for medicinal plant raw materials, their products, testing methods, etc., established in a national order and mandatory for manufacturers and consumers is currently a very urgent problem in the Republic of Kazakhstan.

11. Results of training (competence):

Knowledge (cognitivesphere)	Skills (psychomotorsphere)	Personal and professional competences (relations)
<ul style="list-style-type: none"> - the general importance of medicinal plants and medicinal plant raw materials as a source of biologically active compounds used in standardization in modern herbal medicine; - get acquainted with the general nomenclature of medicinal plants, medicinal plant raw materials and herbal preparations in finished form, used in standardization and quality control in testing laboratories of the Republic of Kazakhstan; - study, familiarize yourself and master the necessary quality indicators used in the standardization of various finished dosage forms (tinctures, tablets, extracts, ointments, etc.) containing medicinal plant materials; - Acquaintance with the safety precautions of 	<ul style="list-style-type: none"> - - systematizes knowledge of the subject and tasks of standardization and quality control of crushed medicinal plant raw materials of packaged products; - Owns the methodology of standardization and quality control of crushed medicinal plant raw materials; - defines the distinctive features of standardization and quality control of crushed medicinal plant raw materials in comparison with other areas of standardization and quality control; - Explains the parameters used in standardization and quality control of crushed medicinal plant raw materials; - Explains the essence of quality control of crushed medicinal plant raw 	<ul style="list-style-type: none"> - Shows knowledge of the legislation of RK in the field of health care, the international standards, their structure and other specifications and technical documentation regulating quality, rules of preparation, acceptance, the requirement to terms and storage conditions of medicinal plant raw materials, a basis of a legal system of Kazakhstan, etc. - Carries out search and information processing about medicinal plant raw materials for consultation of doctors, druggists, the population concerning their preparation, application and storage; - Imparts to students own knowledge and abilities of work with information (educational, help, scientific) in the field of standardization of medicinal plant raw

working in a chemical laboratory with medicinal plant raw materials and medicinal plants used in herbal medicine;	materials, its purpose and objectives as a science; - compares the stages of assessing the standardization and quality control of medicinal products; - Knows how to characterize the stages of quality control research.	materials and the packed-up products.
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12. Prerequisites: bachelor degree

13. Post-details: doctorate

14. Literature

The main:

1. Лекарственное сырье растительного и животного происхождения. Фармакогнозия / Под. ред. Г.П. Яковлева. – СПб.: СпецЛит, 2006. – 845 с.: ил.
2. Муравьева Д.А., Самылина И.А., Яковлев Г.П. Фармакогнозия. Учебник. – 4-е изд., перераб. и доп. – М.: ОАО Издательство «Медицина», 2007. – 656 с.: ил.
3. Руководство к практическим занятиям по фармакогнозии: Учебное пособие / Под ред. И.А. Самылиной, А.А. Сорокиной. – М.: ООО «Мед. информационное агентство», 2007. – 672 с.
4. Самылина И.А., Аносова О.Г. Фармакогнозия: учебное пособие: Атлас в 2 т. – М., 2007. – Т.1. – 192 с.; Т.2. – 384 с.
5. Самылина И.А., Ермакова В.А., Бобкова Н.В., Потанина О.Г. Фармакогнозия: учебное пособие: Атлас. – Т.3. – М., 2009. – 488 с.

Additional:

1. Головкин Б.Н., Руденская Р.Н., Трофимова И.А., Шретер А.И. Биологически активные вещества растительного происхождения. – М.: Наука, 2001. – 240 с.
2. Государственная фармакопея Республики Казахстан. Т.1. – Алматы: Издательский дом «Жибек жолы», 2008. – 592 с.
3. Машковский М.Д. Лекарственные средства. – 15-е изд., перераб., испр. и доп. – М.: РИА “Новая волна”: Издатель Умеренков, 2008. – 1206 с.: ил.

1. Department: organization and management of pharmaceutical business

2. Level of training: master's degree scientific and pedagogical

3. Specialty 6М 110400-pharmacy

4. Course: 1

5. Name elective subjects: Good distribution practice

6. Number of credits: 4 credits

7. Purpose: Formation and consolidation of undergraduates sustainable skills, knowledge and skills in the field of drug treatment in conjunction with good distribution practice to comply with the norms, rules and basic principles of pharmaceutical activity.

8. Tasks:

- build system knowledge of good distribution practices;
- provide systemic knowledge on the main provisions of international and national documents on pharmaceutical activities;
- teach graduate students to apply logistic approaches in the field of drug circulation

9. Rationale for the choice of discipline:

In modern conditions, it is not enough to develop a new effective drug, to establish its optimal price, it is still necessary to choose effective channels for the distribution of drugs from the place of manufacture to the places of their use at a specific time in order to meet the needs of the population and medical institutions in the provision of medicines. Distribution — activities related to the purchase, storage, supply or export of drugs, except for retail sales. This activity is carried out in conjunction with the manufacturers or owners of the registration certificate, importers, other distributors or together with business entities engaged in the retail sale of drugs.

10. Learning outcomes (competencies)

Knowledge (the cognitive sphere)	Skills (psychomotor sphere)	Personal and professional competences (relations)
<ul style="list-style-type: none"> • demonstrates knowledge and understanding of the interdisciplinary nature of research in modern pharmaceutical science and practice in accordance with the requirements of the current legislation of the Republic of Kazakhstan and Good Pharmaceutical Practices (GxP); • demonstrates knowledge of the organizational and economic aspects of the activities of entities in the field of drug circulation 	<ul style="list-style-type: none"> • applies logistic approaches in the field of drug circulation; • organizes the activities of the main links of the distribution system in the framework of distribution (GDP) practice; • organizes storage of drugs and medical devices in facilities engaged in pharmaceutical activities in accordance with the current legislation of the Republic of Kazakhstan in the field of healthcare and Good Distribution (GDP) storage and storage practices (GSP). 	<ul style="list-style-type: none"> • adapts to the changing demands of the pharmaceutical labor market; • is engaged in professional growth, demonstrates the skills of effective communication and introspection, experience for teaching at the level of higher education.

11. Literature

Basic literature:

1. Багирова В.Л. Управление и экономика фармации.—Москва: Медицина.- 2008. – 720 с.
2. Управление и экономика фармации: учебник/под ред. И.А. Наркевича. – М.: ГЭОТАР-Медиа, 2017. – 928 с

3. Приказ Министра здравоохранения и социального развития Республики Казахстан от 27 мая 2015 года №392 «Об утверждении надлежащих фармацевтических практик»

Additional literature:

1. Арыстанов Ж.М. Менеджмент и маркетинг: учебное пособие-Алматы: Эверо, 2016.
2. Арыстанов Ж.М. Организация фармацевтической деятельности: учеб.пособие. – Алматы: Эверо. - 2015.
3. Мэрфи, П. Р. Заманауи логистика: оқулық / П. Р. Мэрфи, А. М. Кнемейер ; ағылшын тіл. ауд. И. Баймұратова, Қ. М. Төреханова. - 11-бас. - Алматы: Дәуір, 2017. - 176 б.

Electronic resources:

1. Шертаева, К. Д. Фармацевтикалық маркетинг [Электронный ресурс]: оқулық / К. Д. Шертаева, К. Ж. Мамытбаева ; ҚР денсаулық сақтау және әлеуметтік даму министрлігі. ОҚМФА. - Электрон. текстовые дан. - Шымкент: [б. и.], 2016. - эл. опт. диск (CD-ROM) (1.17Мб).
2. Блинова, О. В. Фармацевтический менеджмент [Электронный ресурс]: учебник / О. В. Блинова; М-во здравоохранения РК; ЮКГФА. - Электрон. текстовые дан. (1,29 Мб). - Шымкент: Жасұлан, 2014. - 165 с. эл. опт. диск (CD-ROM).
3. УМКД размещен на образовательном портале ukma.kz
4. Электронная библиотека «Консультант студента». Ссылка для доступа: <http://www.studmedlib.ru>, ЛОГИН ibragim123, ПАРОЛЬ Libukma123
5. Сайт библиотечно-информационного центра академии lib.ukma.kz
6. Медиатека ЮКМА <https://media.skma.edu.kz/>
7. Цифровая библиотека «Акнурпресс» www.aknurpress.kz
пройдите регистрацию и укажите промокод SDH-28
8. ОҚМА Репозиторийі <http://lib.ukma.kz/repository/>
9. Республикалық жоғары оқу орындары аралық электрондық кітапхана <http://rmebrk.kz/>
- 10.«Заң» нормативтік-құқықтық актілер базасы <https://zan.kz/ru>
- 11.«Параграф Медицина» ақпараттық жүйесі <https://online.zakon.kz/Medicine/>
- 12.Кодекс Республики Казахстан от 7 июля 2020 года № 360-VI «О здоровье народа и системе здравоохранения» (с изменениями и дополнениями). Гл. 2, ст. 10; гл. 5, параграф 3; гл. 27,28. https://online.zakon.kz/document/?doc_id=34464437

1. **The department of Pharmacognosy**

2. **Level of training:** magistracy

3. **Specialty:** 6M110400 «Pharmacy»

4. **Course:** 1 (profile direction)

5. **Name of elective discipline:** «Standardization of medicinal plant raw materials and phytomedicines»

6. **Amount of credits:** 4

7. Purposes: - Formation of theoretical knowledge (cognitive component)

- Mastering the general importance of medicinal plants and medicinal plant raw materials as a source of biologically active compounds used in standardization in modern herbal medicine;
- Mastering the general concept and concept of standardization, standards, the concept of registration, re-registration and certification of pharmaceutical products from medicinal products in the Republic of Kazakhstan;
- Mastering legal competence by familiarizing yourself with the regulatory documents that regulate the quality, efficiency and safety of medicinal products and medicinal products;
- Motivated training of undergraduates for continuous improvement and development of abilities for independent and creative mastering of materials on medicinal plant raw materials;
- Study of quality indicators for finished dosage forms.

8. Tasks:

- orientation in properties and the chemical composition of herbs according to constantly growing demand in quality phytoproducts and medicinal plant raw materials;
- orientation in properties and the chemical composition of the products of animal and mineral origin which are widely used in a modern arsenal the therapeutic of medicines;
- to give a general idea to undergraduates about medicinal products used in standardization in phytotherapy and entered in the Register of the Republic of Kazakhstan;
- mastering and familiarization with practical, communication and legal skills of students with the basic provisions on medicinal herbal raw materials and medicinal plants and finished from them, dosage forms used in standardization in the Republic of Kazakhstan;
- legal acquaintance of students with the problems of medicinal plants used in standardization in the form of finished dosage forms in traditional medicine, disclosure of scientific approaches to their solution.

9. Discipline content:

Standardization and quality control of medicinal plant raw materials. General presentation and concept of standardization, standards, concept of registration, re-registration and certification of pharmaceutical products from LRS in the Republic of Kazakhstan. General presentation of the required quality indicators of the finished pharmaceutical products. Characteristics of dosage forms based on native ground raw materials. Medicinal plant collecting.

11. Justification of the choice of discipline:

Ensuring the proper quality of medicinal plant raw materials largely depends on the correct organization of control, its effectiveness and efficiency, as well as on the level of requirements laid down in regulatory documents (GF, AED, VAND) and the analysis methods used. The study of the system of quality standards for medicinal plant raw materials, their products, testing methods, etc., established in a national

order and mandatory for manufacturers and consumers is currently a very urgent problem in the Republic of Kazakhstan.

11. Results of training (competence):

Knowledge (cognitivesphere)	Skills (psychomotorsphere)	Personal and professional competences (relations)
<ul style="list-style-type: none"> - the general importance of medicinal plants and medicinal plant raw materials as a source of biologically active compounds used in standardization in modern herbal medicine; - get acquainted with the general nomenclature of medicinal plants, medicinal plant raw materials and herbal preparations in finished form, used in standardization and quality control in testing laboratories of the Republic of Kazakhstan; - study, familiarize yourself and master the necessary quality indicators used in the standardization of various finished dosage forms (tinctures, tablets, extracts, ointments, etc.) containing medicinal plant materials; - Acquaintance with the safety precautions of working in a chemical laboratory with medicinal plant raw materials and medicinal plants used in herbal medicine; 	<ul style="list-style-type: none"> - - systematizes knowledge of the subject and tasks of standardization and quality control of crushed medicinal plant raw materials of packaged products; - Owns the methodology of standardization and quality control of crushed medicinal plant raw materials; - defines the distinctive features of standardization and quality control of crushed medicinal plant raw materials in comparison with other areas of standardization and quality control; - Explains the parameters used in standardization and quality control of crushed medicinal plant raw materials; - Explains the essence of quality control of crushed medicinal plant raw materials, its purpose and objectives as a science; - compares the stages of assessing the standardization and quality control of medicinal products; 	<ul style="list-style-type: none"> - Shows knowledge of the legislation of RK in the field of health care, the international standards, their structure and other specifications and technical documentation regulating quality, rules of preparation, acceptance, the requirement to terms and storage conditions of medicinal plant raw materials, a basis of a legal system of Kazakhstan, etc. - Carries out search and information processing about medicinal plant raw materials for consultation of doctors, druggists, the population concerning their preparation, application and storage; - Imparts to students own knowledge and abilities of work with information (educational, help, scientific) in the field of standardization of medicinal plant raw materials and the packed-up products.

	- Knows how to characterize the stages of quality control research.	
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12. Prerequisites: bachelor degree

13. Post-details: doctorate

14. Literature

The main:

1. Лекарственное сырье растительного и животного происхождения. Фармакогнозия / Под. ред. Г.П. Яковлева. – СПб.: СпецЛит, 2006. – 845 с.: ил.
2. Муравьева Д.А., Самылина И.А., Яковлев Г.П. Фармакогнозия. Учебник. – 4-е изд., перераб. и доп. – М.: ОАО Издательство «Медицина», 2007. – 656 с.: ил.
3. Руководство к практическим занятиям по фармакогнозии: Учебное пособие / Под ред. И.А. Самылиной, А.А. Сорокиной. – М.: ООО «Мед. информационное агентство», 2007. – 672 с.
4. Самылина И.А., Аносова О.Г. Фармакогнозия: учебное пособие: Атлас в 2 т. – М., 2007. – Т.1. – 192 с.; Т.2. – 384 с.
5. Самылина И.А., Ермакова В.А., Бобкова Н.В., Потанина О.Г. Фармакогнозия: учебное пособие: Атлас. – Т.3. – М., 2009. – 488 с.

Additional:

1. Головкин Б.Н., Руденская Р.Н., Трофимова И.А., Шретер А.И. Биологически активные вещества растительного происхождения. – М.: Наука, 2001. – 240 с.
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3. Машковский М.Д. Лекарственные средства. – 15-е изд., перераб., испр. и доп. – М.: РИА «Новая волна»: Издатель Умеренков, 2008. – 1206 с.: ил.

1. The department of Pharmacognosy

2. Level of training: magistracy

3. Specialty: 6M110400 «Pharmacy»

4. Course: 1 (profile direction)

5. Name of elective discipline: «Features of phytochemical analysis of medicinal raw materials of plant and animal origin»

6. Amount of credits: 3

7. Purposes:

Familiarization of undergraduates with topical issues of phytochemical analysis of medicinal raw materials of plant and animal origin, chemical composition and classification of medicinal plants, biosynthesis of active biologically active substances, factors affecting their accumulation in raw materials, methods of isolation from raw materials, qualitative and quantitative determination of active substances.

8. Content of discipline: "Features of phytochemical analysis of medicinal raw materials of plant and animal origin" as a science and academic discipline and the main stages of development. Basic information about the use of herbal medicines in

medicine. Safety regulations when working with medicinal plants and medicinal raw materials.

9. Tasks:

- the ability to determine the moisture content, ash content, characteristic numerical indicators of medicinal plant raw materials (in fats - acid number, iodine number, etc.);
- study of the qualitative and quantitative determination of the active substances of medicinal raw materials of plant and animal origin;
- carrying out phytochemical analysis of medicinal raw materials of plant and animal origin;
- to form the skills and abilities necessary for the implementation of the professional activity of a master's student.

10. Justification of the choice of discipline:

"Features of phytochemical analysis of medicinal plant and animal raw materials" is one of the pharmaceutical sciences that studies medicinal plants, medicinal plant raw materials and some products of primary processing of plant and animal origin. Features of phytochemical analysis of medicinal raw materials of plant and animal origin is considered a special subject for the study of pharmacognosy as the main subject.

11. Results of training (competence):

Knowledge (cognitive sphere)	Skills (psychomotor sphere)	Personal and professional competences (relations)
<ul style="list-style-type: none"> - "Features of phytochemical analysis of medicinal raw materials of plant and animal origin" as a science and as an academic discipline and the main stages of development. - the general importance of medicinal plants and medicinal plant raw materials as a source of biologically active compounds used in standardization in modern herbal medicine; - get acquainted with the general nomenclature of medicinal plants, medicinal plant raw materials and phytopreparations in finished form; 	<ul style="list-style-type: none"> - the ability to determine the moisture content, ash content, characteristic numerical indicators of medicinal plant raw materials (in fats - acid number, iodine number, etc.); - knows the chemical composition of medicinal plant materials; - familiarized with the safety precautions of working in a chemical laboratory with medicinal plant raw materials and medicinal plants used in herbal medicine; - knows how to carry out phytochemical analysis of medicinal raw materials 	<ul style="list-style-type: none"> - carrying out phytochemical analysis of medicinal raw materials of plant and animal origin; - to determine the moisture content, ash content, characteristic numerical indicators of medicinal plant raw materials (in fats - acid number, iodine number, etc.); - to carry out a qualitative and quantitative determination of the active substances of medicinal raw materials of plant and animal origin;

<ul style="list-style-type: none"> - to determine the chemical composition of medicinal plant materials; - familiarize yourself with the safety precautions of working in a chemical laboratory with medicinal plant raw materials and medicinal plants used in herbal medicine; - to carry out a qualitative and quantitative determination of the active substances of medicinal raw materials of plant and animal origin; - to carry out phytochemical analysis of medicinal raw materials of plant and animal origin; - biosynthesis of active biologically active substances; - get acquainted with the methods of separation of biologically active substances from raw materials, purification of the obtained extracts. 	<p>of plant and animal origin;</p> <ul style="list-style-type: none"> - familiar with the biosynthesis of active biologically active substances; - familiarized with the methods of extraction of biologically active substances from raw materials, purification of the obtained extracts. <p>-Knows the ways of using and application in medicine of medicinal plant raw materials.</p>	<ul style="list-style-type: none"> - ability to apply regulatory and technical documentation, knowledge in the field of regulatory frameworks; - to analyze and generalize the results obtained for use in production and technological activities; - predict the occurrence of possible problems, crisis or non-standard situations, find opportunities for their monitoring, resolution or prevention; - to carry out environmental control;
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12. Prerequisites: bachelor degree

13. Post-details: doctorate

14. Literature

The main:

1. Лекарственное сырье растительного и животного происхождения. Фармакогнозия / Под ред. Г.П. Яковлева. – СПб.: СпецЛит, 2006. – 845 с.: ил.
2. Муравьева Д.А., Самылина И.А., Яковлев Г.П. Фармакогнозия. Учебник. – 4-е изд., перераб. и доп. – М.: ОАО Издательство «Медицина», 2007. – 656 с.: ил.
3. Руководство к практическим занятиям по фармакогнозии: Учебное пособие / Под ред. И.А. Самылиной, А.А. Сорокиной. – М.: ООО «Мед. информационное агентство», 2007. – 672 с.
4. Самылина И.А., Аносова О.Г. Фармакогнозия: учебное пособие: Атлас в 2 т. – М., 2007. – Т.1. – 192 с.; Т.2. – 384 с.
5. Самылина И.А., Ермакова В.А., Бобкова Н.В., Потанина О.Г. Фармакогнозия: учебное пособие: Атлас. – Т.3. – М., 2009. – 488 с.

Additional:

1. Головкин Б.Н., Руденская Р.Н., Трофимова И.А., Шретер А.И. Биологически активные вещества растительного происхождения. – М.: Наука, 2001. – 240 с.
2. Государственная фармакопея Республики Казахстан. Т.1. – Алматы: Издательский дом «Жибек жолы», 2008. – 592 с.
3. Машковский М.Д. Лекарственные средства. – 15-е изд., перераб., испр. и доп. – М.: РИА “Новая волна”: Издатель Умеренков, 2008. – 1206 с.: ил.

1. Department: organization and management of pharmaceutical business

2. Level of training: master profile

3. Specialty: M142-pharmacy

4. Course: 1

5. Name elective subjects: Good distribution practice

6. Number of credits: 4 credits

7. Purpose: Formation and consolidation of undergraduates sustainable skills, knowledge and skills in the field of drug treatment in conjunction with good distribution practice to comply with the norms, rules and basic principles of pharmaceutical activity.

8. Tasks:

- build system knowledge of good distribution practices;
- provide systemic knowledge on the main provisions of international and national documents on pharmaceutical activities;
- teach graduate students to apply logistic approaches in the field of drug circulation

9. Rationale for the choice of discipline:

In modern conditions, it is not enough to develop a new effective drug, to establish its optimal price, it is still necessary to choose effective channels for the distribution of drugs from the place of manufacture to the places of their use at a specific time in order to meet the needs of the population and medical institutions in the provision of medicines. Distribution — activities related to the purchase, storage, supply or export of drugs, except for retail sales. This activity is carried out in conjunction with the manufacturers or owners of the registration certificate, importers, other distributors or together with business entities engaged in the retail sale of drugs.

10. Learning outcomes (competencies)

Knowledge (the cognitive sphere)	Skills (psychomotor sphere)	Personal and professional competences (relations)
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<ul style="list-style-type: none"> • demonstrates knowledge and understanding of the interdisciplinary nature of research in modern pharmaceutical science and practice in accordance with the requirements of the current legislation of the Republic of Kazakhstan and Good Pharmaceutical Practices (GxP); • demonstrates knowledge of the organizational and economic aspects of the activities of entities in the field of drug circulation 	<ul style="list-style-type: none"> • applies logistic approaches in the field of drug circulation; • organizes the activities of the main links of the distribution system in the framework of distribution (GDP) practice; • organizes storage of drugs and medical devices in facilities engaged in pharmaceutical activities in accordance with the current legislation of the Republic of Kazakhstan in the field of healthcare and Good Distribution (GDP) storage and storage practices (GSP). 	<ul style="list-style-type: none"> • adapts to the changing demands of the pharmaceutical labor market; • is engaged in professional growth, demonstrates the skills of effective communication and introspection, experience for teaching at the level of higher education.
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11.Literature

Basic literature:

4. Багирова В.Л. Управление и экономика фармации.–Москва: Медицина.- 2008. – 720 с.
5. Управление и экономика фармации: учебник/под ред. И.А. Наркевича. – М.: ГЭОТАР-Медиа, 2017. – 928 с
6. Приказ Министра здравоохранения и социального развития Республики Казахстан от 27 мая 2015 года №392 «Об утверждении надлежащих фармацевтических практик»

Additional literature:

4. Арыстанов Ж.М. Менеджмент и маркетинг: учебное пособие-Алматы: Эверо, 2016.
5. Арыстанов Ж.М. Организация фармацевтической деятельности: учеб.пособие. – Алматы: Эверо. - 2015.
6. Мэрфи, П. Р. Заманауи логистика: оқулық / П. Р. Мэрфи, А. М. Кнемейер ; ағылшын тіл. ауд. И. Баймұратова, Қ. М. Төреханова. - 11-бас. - Алматы: Дәуір, 2017. - 176 б.

Electronic resources:

- 13.Шертаева, К. Д. Фармацевтикалық маркетинг [Электронный ресурс]: оқулық / К. Д. Шертаева, К. Ж. Мамытбаева ; ҚР денсаулық сақтау және әлеуметтік даму министрлігі. ОҚМФА. - Электрон. текстовые дан. - Шымкент: [б. и.], 2016. - эл. опт. диск (CD-ROM) (1.17Мб).

14. Блинова, О. В. Фармацевтический менеджмент [Электронный ресурс]: учебник / О. В. Блинова; М-во здравоохранения РК; ЮКГФА. - Электрон. текстовые дан. (1,29 Мб). - Шымкент: Жасұлан, 2014. - 165 с. эл. опт. диск (CD-ROM).
15. УМКД размещен на образовательном портале ukma.kz
16. Электронная библиотека «Консультант студента». Ссылка для доступа: <http://www.studmedlib.ru>, ЛОГИН ibragim123, ПАРОЛЬ Libukma123
17. Сайт библиотечно-информационного центра академии lib.ukma.kz
18. Медиатека ЮКМА <https://media.skma.edu.kz/>
19. Цифровая библиотека «Акнурпресс» www.aknurpress.kz
пройдите регистрацию и укажите промокод SDH-28
20. ОКМА Репозиторийі <http://lib.ukma.kz/repository/>
21. Республикалық жоғары оқу орындары аралық электрондық кітапхана <http://rmebrk.kz/>
22. «Зан» нормативтік-құқықтық актілер базасы <https://zan.kz/ru>
23. «Параграф Медицина» ақпараттық жүйесі <https://online.zakon.kz/Medicine/>
24. Кодекс Республики Казахстан от 7 июля 2020 года № 360-VI «О здоровье народа и системе здравоохранения» (с изменениями и дополнениями). Гл. 2, ст. 10; гл. 5, параграф 3; гл. 27, 28. https://online.zakon.kz/document/?doc_id=34464437

1. Department of organization and management of pharmaceutical business

2. Level of training: master profile

3. Specialty: 6M 110400-pharmacy

4. Course: 1

5. Name of elective discipline: Management consulting

6. Number of credits: 3 credits

7. Purpose: formation of knowledge, skills and abilities of undergraduates in the organization of management consulting the use of specific tools and methods to ensure optimal results of consulting services in the organizational diagnosis of pharmaceutical organizations.

8. Tasks:

- provide systemic knowledge and develop skills in the application of specific tools, methods of organizing management consulting in organizational diagnostics of pharmaceutical organizations.
- to develop skills in organizing and conducting professional and managerial consulting in the management of pharmaceutical personnel and in applying tools and methods for organizing management consulting and organizational diagnostics of pharmaceutical organizations.

9. Rationale for the choice of discipline:

Management consulting, as a discipline, includes a very important and rapidly developing field of activity to transfer the experience of successful managers to young employees, in training specialists in conducting research on the functioning and development of organizations. The condition for the success of the development of modern pharmaceutical business is the ability to outpace the needs of the market

of pharmaceutical products and services. In these circumstances, the need for management consulting increases, especially when the management capacity of a pharmaceutical organization is insufficient to solve the existing problems.

10. Learning outcomes (competencies)

Knowledge (the cognitive sphere)	Skills (psychomotor sphere)	Personal and professional competences (relations)
<ul style="list-style-type: none"> • demonstrates knowledge and understanding of the interdisciplinary nature of research in modern pharmaceutical science and practice in accordance with the requirements of the current legislation of the Republic of Kazakhstan and Good Pharmaceutical Practices (GxP) • demonstrates knowledge of specific tools for management consulting services; • demonstrates knowledge of the basics of organizational diagnostics of a pharmaceutical organization. 	<ul style="list-style-type: none"> • analyzes socially significant problems and processes; • applies consulting methods in a consultant - client relationship; • owns specific methods of management consulting; • applies management consulting methods in organizational diagnostics of pharmaceutical organizations. 	<ul style="list-style-type: none"> • uses scientific achievements in the field of pharmacy and introduces innovative technologies in its professional activities; • is engaged in professional growth, demonstrates the skills of effective communication and introspection, experience for teaching at the level of higher education.

11. Literature

Basic:

1. Арыстанов, Ж. М. Управление и экономика фармации : учебник - Алматы : Эверо, 2015. - 728 с.-40экз..
2. Токмакова Н.О. Основы управленческого консультирования: учебно-практическое пособие./М.: Московский международный институт эконометрики, информатики, финансов и права. - 2014. – 68 с.

Additional:

1. Управленческое консультирование: Учеб.пособие для студентов вузов, обучающихся по специальности «Менеджмент организации» / Г.А. Васильев, Е.М. Деева. – М.: ЮНИТИ – ДАНА. - 2014.

Electronic resources:

1. Шертаева, К. Д. Фармацевтикалық маркетинг [Электронный ресурс]: оқулық / К. Д. Шертаева, К. Ж. Мамытбаева ; ҚР денсаулық сақтау және әлеуметтік даму министрлігі. ОҚМФА. - Электрон. текстовые дан. - Шымкент: [б. и.], 2016. - эл. опт. диск (CD-ROM) (1.17Мб).
2. Блинова, О. В. Фармацевтический менеджмент [Электронный ресурс]: учебник / О. В. Блинова; М-во здравоохранения РК; ЮКГФА. - Электрон.

текстовые дан. (1,29 Мб). - Шымкент: Жасұлан, 2014. - 165 с. эл. опт. диск (CD-ROM).

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5. Сайт библиотечно-информационного центра академии lib.ukma.kz
6. Медиатека ЮКМА <https://media.skma.edu.kz/>
7. Цифровая библиотека «Акнурпресс» www.aknurpress.kz
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8. ОҚМА Репозиторийі <http://lib.ukma.kz/repository/>
9. Республикалық жоғары оқу орындары аралық электрондық кітапхана
<http://rmebrk.kz/>
- 10.«Заң» нормативтік-құқықтық актілер базасы <https://zan.kz/ru>
- 11.«Параграф Медицина» ақпараттық жүйесі <https://online.zakon.kz/Medicine/>