Odessa National Medical University
Faculty of Pharmacy
Department of Pharmacology and Pharmacognosy

Syllabus course

EDUCATIONAL PRACTICE ON PHARMACOGNOSIS

Amount	3 credits / 90 hours
Semester, year of study	VII semester, IV year of study
Days, time, place	According to the schedule in the auditorium 106 of the Department of Pharmacology and Pharmacognosy (pharmacognosy cycle). Street Malinowski - 37
Teacher (s)	Rozhkovsky Yaroslav Vladimirovich, Doctor of Medicine, Professor Boyko Iryna Anatoliivna, Ph.D., senior lecturer Chernogoryuk Valeria Valerievna, assistant
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Workplace	Office № 102 of the Department of Pharmacology and Pharmacognosy (pharmacognosy cycle). Street Malinowski - 37
Consultations	*Eye consultations* : Thursday from 15.00 to 17.00; Saturday from 9.00 to 13.00 *Online consultations:* Thursday from 15.00 to 17.00; Saturday from 9.00 to 13.00 via *viber*

COMMUNICATION

Communication with students will be through face-to-face meetings. In case of transition to distance learning, communication with students will be carried out by means of E-mail and programs: Microsoft Teams, Zoom and Viber.

COURSE ANNOTATION

The subject of study of the discipline

The subject of study of the discipline "Educational practice in pharmacognosy" - are medicinal plants, medicinal plant raw materials (LRS) and some products of primary processing of plant and animal origin (snake venom, bees).

Prerequisites and postrequisites of the course (Place of discipline in the educational program):

a) is based on the knowledge gained by students in the study of Latin, pharmaceutical botany, biology, organic, biological and analytical chemistry, pharmacognosy and integrates with these disciplines;

b) lays the foundations for students to study pharmaceutical and toxicological chemistry, pharmacology, drug technology, technology of perfumes and cosmetics, clinical pharmacy, resource science of medicinal plants, standardization of drugs, which involves the formation of skills to apply knowledge of pharmacognosy in further education and professional activities;

The purpose of the course.

The aim is: formation and development of general competence in the field of knowledge about medicinal plants, their recognition, morphological description; content of biologically active substances, purpose, drugs based on them.

Tasks of the discipline :

- formation and development of a system of knowledge, skills and abilities necessary for the effective use of LRS;
- acquaintance of students with the role of LRS in phytotherapy;
- development of the ability to use LRS independently.

Expected results

According to the study of the discipline, students must

know:

- raw material base of LR, prospects of development of raw material base.
- classification systems of LR and LRS: chemical, morphological, botanical, pharmacological.
- features of collection, processing, drying and storage of LRS.
- basics of organoleptic, chemical analysis of LRS;
- chemical content of BAR LR;
- drugs based on LR.

be able:

- to demonstrate skills of work on diagnostics of LR;
- to demonstrate skills of work on diagnostics of LRS;
- demonstrate skills in histological analysis of LRS;
- demonstrate skills in chemical analysis of LRS;
- demonstrate skills in commodity analysis of LRS.

COURSE DESCRIPTION

Forms and methods of teaching

The course will be presented in the form of practical (30 hours), organization of independent work of students (60 hours).

The study of the discipline should be implemented on the basis of methods of problem statement, heuristic, research, interactive (project method).

The content of the discipline

Topic 1. Purpose, objectives and content of practice

Topic 2. Raw material base of LR of different phytocenoses and urban flora

Topic 3. Basics of cultivation of LR

Topic 4. Harvesting and harvesting of wild and cultivated medicinal plant raw materials. Bringing LRS to standard condition

Topic 5. Research of medicinal plant resources

Topic 6. Organizational measures for the procurement of LRS

List of recommended reading

1. Pharmacognosy: textbook (I-III years) / I.A. Бобкова, Л.В. Варлахова. - 3rd edition All-Ukrainian specialized publishing house "Medicine" 2018, 504p.
2. Pharmacognosy: a basic textbook. for students. higher pharmacy. textbook zakl. (pharmac. f-tiv) IV level of accreditation / V.S. Кисличенко, I.O. Журавель, С.M. Marchyshyn and others; for order. V.S. Кисличенко. - Kharkiv: NUPh: Golden Pages, 2015. - 736 p.
3. Textbook on the discipline "Pharmacognosy" / Ya. V. Rozhkovsky, BV Prystupa, IA Boyko, NV Gerasimyuk, VV Chernogoryuk -: Methodical development of the Department of Pharmacognosy ONMedU. - Odessa: ONMedU, 2019 - 51 p.
4. State Pharmacopoeia of Ukraine: in 3 volumes / State Enterprise "Ukrainian Scientific Pharmacopoeial Center for Quality of Medicines". - 2nd type. - Kharkiv: State Enterprise "Ukrainian Scientific Pharmacopoeial Center for Quality of Medicines", 2015. - Vol. 1. - 1500 p.
5. Workshop on the identification of medicinal plant materials: textbook. way. / [B. M. Kovalev, SM Marchyshyn, OP Khvorost and others]; for order. VM Kovaleva, SM Marchishin. - Ternopil: TSMU, 2014. - 250 p.

EVALUATION

Methods of current control: Evaluation of the success of the study of each topic of the discipline is performed on a traditional 4-point scale.

Current performance is calculated as the average current score, ie the arithmetic mean of all grades obtained by the student on a traditional scale, rounded to 2 (two) decimal places , for example 4.75.

Assessment of current control in the discipline:

The value of the assessment is **"excellent** ": the student shows special creative abilities, is able to acquire knowledge independently, without the help of the teacher finds and processes the necessary information, is able to use acquired knowledge and skills to make decisions in unusual situations, convincingly argues answers.

The value of the grade **"good** ": the student is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standard situations, independently corrects mistakes, the number of which is insignificant.

The value of the assessment is **"satisfactory** ": the student reproduces a significant part of the theoretical material, shows knowledge and understanding of the basic provisions; with the help of the teacher can analyze the educational material, correct mistakes, among which there are a significant number of significant ones.

The value of the assessment is **"unsatisfactory** ": the student has the material at the level of individual fragments that make up a small part of the study material.

Only those students who do not have academic debts and have an average score of at least 3.00 for their current academic activity are allowed to take the final attestation.

Assessment of the current test control in the discipline:
- "5" - 100-91% of correct answers;
- "4" - 90-71% of correct answers;
- "3" - 70-60.5% of correct answers;
- "2" - less than 60% of correct answers.

Forms and methods of final control:

The form of final control of knowledge in the discipline is a differential test.

The average score for the discipline is translated into the traditional grade from the discipline on a 4-point scale and is regarded as the ratio of this arithmetic mean to the percentage of mastering the required amount of knowledge in this subject.

GPA for discipline	The ratio received by the student average score for the discipline to the maximum possible value of this indicator	Score from discipline on a 4-point scale (traditional assessment)
4.45 - 5.0	185-200	5
3.75 - 4.44	151-184	4
3.0 - 3.74	120-150	3

Independent work of students .

Students' independent work, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked at the last lesson.

COURSE POLICY ("rules of the game")

Deadline and recompilation policy: tasks to be completed on time according to the deadline. For late performance of the task the student receives an unsatisfactory grade. Rearrangement is carried out according to the approved schedule.

Academic Integrity Policy :

Observance of academic integrity by students of education provides:

♦ independent performance of educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs this requirement is applied taking into account their individual needs and opportunities);

♦ links to sources of information in the case of the use of ideas, developments, statements, information.

Policy attendance and tardiness . To obtain a satisfactory grade, it is mandatory to attend and work in classrooms (lectures and seminars). The student is allowed to be late for no more than 10 minutes.

Mobile devices: You can use mobile devices in class with the permission of the teacher.

Audience behavior:

While in the audience are important: respect for colleagues; tolerance for others; susceptibility and impartiality; the ability to disagree with the opinion, but to respect the personality of the opponent (during discussions); careful argumentation of the opinion; adherence to the ethics of academic relations.