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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
Director of the Institute of
Preventive Medicine
_____ / Trankovskaya L.V./
"8th" of April 2025

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

Б1.О.42 Occupational diseases

(Name of discipline)

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	**Full-time**
Period of mastering the BEP	**6 years** (nominal length of study)
Institute	of Preventive Medicine

Vladivostok, 2025

Subject guide for teachers and students for **Б1.О.42 Occupational diseases** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation
dated August 12, 2020.
2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia, Report No. 8/24-25 dated March 31, 2025.

Subject guide for teachers and students for the discipline were developed by the writing team of the Institute of Preventive Medicine of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the Institute, Doctor of Medical Sciences, professor Trankovskaya L.V.

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1. GENERAL PROVISIONS

Subject guide for **Б1.О.42 Occupational diseases** is a set of recommendations and explanations that facilitate to optimal organization of mastering this discipline.

Regular analysis of lecture materials and work with end-of-the-text questions are necessary for better understanding of the material and systematization of knowledge of **Б1.О.42 Occupational diseases**. Particular attention should be paid to emerging questions, confusing terms, and conflicts of points of view during the independent review of the lecture material. If necessary, a student should contact the teacher for advice. Lecture material streamlines students' thinking, while practical classes provide deeper insight into the material of the discipline.

Special attention should be paid to the content of the main provisions and conclusions, explanation of phenomena and facts, and clarification of the practical application of theoretic aspects of topic when preparing for a practical class. During this process students should aim to understand and remember the main provisions of the material under consideration, examples provided, as well as understand the illustrative material.

Collections of assessment tools are used to organize independent study of topics of the discipline.

Independent work of students is facilitated by the following:

1. availability and accessibility of the necessary educational and reference material;
2. a system of regular quality control of completed independent work;
3. availability of teacher's advice.

Subject guides for self-study are presented as literary sources. Subject guides for independent work of students include a list of library resources of the educational institution and other materials accessible to students.

Independent work is a type of in-person extracurricular work of teachers and students of **Б1.О.42 Occupational diseases**. Control of independent work is conducted by the leading teacher. Evaluation of independent work results is taken into account when conducting interim examination of students throughout the **Б1.О.42 Occupational diseases** course.

Continuous assessment during the **Б1.О.42 Occupational diseases** course is implemented in order to check indicators of achieving competencies, to stimulate students' academic work, and improve methods of mastering new knowledge. Continuous assessment during the **Б1.О.42 Occupational diseases** course is conducted during the semester to assess all types and sections of the academic discipline that encompass the competencies developed by the discipline: classroom questioning, discussions, working with tests, preparing reports, completing individual creative assignments, and completing calculation and graphic assignments. Continuous assessment of students' knowledge and results of their preparation for practical classes is conducted during every class session.

Interim assessment aims to determine the level of mastery of competency indicators. It is conducted in the pass/fail test format after the student has mastered all sections of **Б1.О.42 Occupational diseases** and takes into account learning outcomes for all types of student work over the entire period of mastering the **Б1.О.42 Occupational diseases** course.

Time allotted for interim assessment is indicated in the schedule.

Assignments given during practical classes, as well as assignments aimed to prepare students for continuous and interim assessment, are included in the collection of assessment tools for **Б1.О.42 Occupational diseases**. If necessary, students should contact the teacher for advice. It is necessary to thoroughly think over questions that need clarification before seeking teacher's advice.

2. SUBJECT GUIDES FOR LECTURE CLASSES

Table 1. Subject Guides for **Б1.О.42 Occupational diseases** Lectures

Topic No.1 General issues of occupational pathology. Conditions of occurrence and causes of occupational diseases. Factors of the working environment and the work process.	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the features of an occupational pathology hospital, rules for examining a patient with suspected occupational pathology, principles of compiling a medical history; 2. provide insights into the features of diagnosis, treatment, prevention, and medical-social expertise of occupational diseases; 3. examine methods of treatment and rational employment of patients with occupational diseases.	
Lecture plan, order of presentation of its sections: 1. Introduction to the problem. Terminology. Features of an occupational pathology hospital, rules for examining a patient with suspected occupational pathology, principles of compiling a medical history. 2. Knowledge necessary for a physician's work in the early detection of occupational diseases. 3. Insights into the features of diagnosis, treatment, prevention, and medical-social expertise of patients with occupational diseases. 4. The main factors of the working environment and the work process.	
Recommended reading: 1. Occupational Pathology: a national guide [Electronic resource] ed. by I. V. Bukhtiyarov. - 2nd ed.,revised and updated. - Moscow : GEOTAR-Media, 2024. - 904 p. URL: http://www.studentlibrary.ru 2. Occupational Diseases: a textbook [Electronic resource] / ed. by S. A. Babanov, L. A. Strizhakov, V. V. Fomin.- 3rd ed., revised. - Moscow : GEOTAR-Media, 2021. - 592 p. URL: http://studentlibrary.ru 3. Management Tactics for Patients Exposed to Harmful and Hazardous Occupational Factors: a practical guide [Electronic resource.] / ed. by I. V. Bukhtiyarov, L. A. Strizhakov Moscow : GEOTAR-Media, 2024. - 288 p. URL: http://studentlibrary.ru	
Topic No.2 Physiology of the work process	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the basic physiological concepts of work, including the classification of work severity and intensity, and the body's energy expenditure during labor; 2. provide insights into the functional changes in human organs and systems (nervous, cardiovascular, musculoskeletal) under the influence of various occupational factors; 3. examine the principles of preventing fatigue and overfatigue, as well as the physiological basis for optimizing work and rest regimes.	
Lecture plan, order of presentation of its sections: 1. Definition and goals of labor physiology. Basic concepts: work capacity, fatigue, overfatigue, recovery. 2. Physiological classification of basic forms of labor (physical, mental, mixed, conveyor, remote work). 3. Criteria for assessing the severity and intensity of the work process (energy consumption, load on analyzers, neuro-emotional stress).	

4. Dynamics of work capacity during a shift: phases (working in, steady state, fatigue) and their physiological characteristics. 5. The impact of the production environment on the functional state of the body (hypokinesia, monotony, sensory deprivation). 7. Physiological and preventive measures to maintain high work capacity and prevent occupational fatigue.
Recommended reading: 1. Occupational Pathology: a national guide [Electronic resource] ed. by I. V. Bukhtiyarov. - 2nd ed.,revised and updated. - Moscow : GEOTAR-Media, 2024. - 904 p. URL: http://www.studentlibrary.ru 2. Occupational Diseases: a textbook [Electronic resource] / ed. by S. A. Babanov, L. A. Strizhakov, V. V. Fomin.- 3rd ed., revised. - Moscow : GEOTAR-Media, 2021. - 592 p. URL: http://studentlibrary.ru 3. Management Tactics for Patients Exposed to Harmful and Hazardous Occupational Factors: a practical guide [Electronic resource.] / ed. by I. V. Bukhtiyarov, L. A. Strizhakov Moscow : GEOTAR-Media, 2024. - 288 p. URL: http://studentlibrary.ru

3. SUBJECT GUIDES FOR PRACTICAL CLASSES

Table 2. Subject Guides for Practical **Б1.О.42 Occupational diseases** Classes

Topic No.1 Occupational respiratory diseases caused by exposure to industrial aerosols	
Duration of the practical class (in academic hours):	4
Purpose of the practical class: 1. tell students about the influence of industrial aerosols on the worker's body; 2. define occupational respiratory diseases; 3. examine methods of diagnosis, treatment, and prevention of occupational respiratory diseases.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.	
Independent work of the student: Preparing a library-research paper to be presented as an oral report, conduct a literature search using the provided keywords in international scientometric databases, make concise notes summarizing the main content of the material	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests, discussion of the reports	
Recommended reading: 1. Occupational Pathology: a national guide [Electronic resource] ed. by I. V. Bukhtiyarov. - 2nd ed.,revised and updated. - Moscow : GEOTAR-Media, 2024. - 904 p. URL: http://www.studentlibrary.ru 2. Occupational Diseases: a textbook [Electronic resource] / ed. by S. A. Babanov, L. A. Strizhakov, V. V. Fomin.- 3rd ed., revised. - Moscow : GEOTAR-Media, 2021. - 592 p. URL: http://studentlibrary.ru 3. Management Tactics for Patients Exposed to Harmful and Hazardous Occupational Factors: a practical guide [Electronic resource.] / ed. by I. V. Bukhtiyarov, L. A. Strizhakov Moscow : GEOTAR-Media, 2024. - 288 p. URL: http://studentlibrary.ru	

Topic No.2 Chronic occupational intoxications, principles of diagnosis, treatment, medical prevention, and rehabilitation	
Duration of the practical class (in academic hours):	4
Purpose of the practical class: 1. tell students about the etiology and classification of chronic occupational intoxications caused by exposure to industrial poisons (heavy metals, aromatic hydrocarbons, pesticides, etc.); 2. provide insights into the principles of clinical and laboratory diagnostics of chronic poisonings, including specific and nonspecific markers of exposure; 3. examine modern methods of etiotropic, pathogenetic, and symptomatic treatment, principles of medical prevention, and rehabilitation of patients with chronic occupational intoxications.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.	
Independent work of the student: Preparing a library-research paper to be presented as an oral report, conduct a literature search using the provided keywords in international scientometric databases, make concise notes summarizing the main content of the material	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests, discussion of the reports	
Recommended reading: 1. Occupational Pathology: a national guide [Electronic resource] ed. by I. V. Bukhtiyarov. - 2nd ed.,revised and updated. - Moscow : GEOTAR-Media, 2024. - 904 p. URL: http://www.studentlibrary.ru 2. Occupational Diseases: a textbook [Electronic resource] / ed. by S. A. Babanov, L. A. Strizhakov, V. V. Fomin.- 3rd ed., revised. - Moscow : GEOTAR-Media, 2021. - 592 p. URL: http://studentlibrary.ru 3. Management Tactics for Patients Exposed to Harmful and Hazardous Occupational Factors: a practical guide [Electronic resource.] / ed. by I. V. Bukhtiyarov, L. A. Strizhakov Moscow : GEOTAR-Media, 2024. - 288 p. URL: http://studentlibrary.ru	

4. GUIDELINES FOR CONTINOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during the **Б1.О.42 Occupational diseases** Course

Type of assessment	Assessment format
Continuous assessment	- conducting and evaluating oral or written quizzes during lectures and practical classes; - assessment and evaluation of completion and results of assignments given during practical classes; - assess and evaluate completion and results of individual assignments and exam tasks given during practical classes; - assessment and evaluation of lecture notes quality.
Interim certification	is conducted in oral test format; it allows to assess the development of students' competencies correlating with types of professional activity.

5 ASPECTS OF THE IMPLEMENTATION OF THE COURSE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

5.1. Availability of accessible environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant, buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

5.2. Compliance with general requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

5.3. Availability of the internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia to students with disabilities in a form accessible to them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a form accessible to them.

5.4. Increase in the duration of interim assessment of students with disabilities and special needs in relation to the established duration

Format of the interim assessment of academic performance within the scope of the discipline for students with disabilities and special needs is selected taking into account individual characteristics (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours

6. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.01 General Medicine specialty; list of the aforementioned personnel is available on the website of the educational organization.