

Документ подписан простой электронной подписью  
 Информация о владельце:  
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Khanty-Mansiysk Autonomous Okrug-Ugra  
 "Surgut State University"

Approved by  
 Deputy Rector for Academic Affairs

\_\_\_\_\_ E.V. Konovalova

"11" June 2025, Record No. 5

## Occupational diseases

### Syllabus

|                    |   |
|--------------------|---|
| Department         | <b>Internal diseases</b>  |
| Curriculum         | s310501-ЛечДелоИн-25-5.plx<br>Specialty 31.05.01 General Medicine |
| Qualification      | <b>General Practitioner</b>                                       |
| Form of education  | <b>Full-time</b>  |
| Total (in credits) | <b>3</b>  |

|                      |    |  |
|----------------------|----|--|
| Total academic hours | 72 | Control:                                 |
| including:           |    | Credit with a mark, 9 <sup>th</sup> term |
| Classes              | 48 |  |
| Self-study           | 24 |  |

### Course outline in terms

| Academic year<br>(Term) | 9 (5.1) |     | Total |     |
|-------------------------|---------|-----|-------|-----|
| Weeks                   | 17 2/6  |     |       |     |
| Types of classes        | Cur     | Syl | Cur   | Syl |
| Lectures                | 16      | 16  | 16    | 16  |
| Practical               | 32      | 32  | 32    | 32  |
| Self-study              | 24      | 24  | 24    | 24  |
| Total                   | 72      | 72  | 72    | 72  |

The Syllabus is compiled by:

*PhD in Medical Sciences (Medicine), Senior Lecturer, Matveeva N.I.*\_\_\_\_\_

The Syllabus

**Occupational diseases**

Developed in accordance with Federal State Educational  
Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the  
Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" June 2025, Record No.5

The Syllabus was approved by the department

**Internal diseases**

“ \_\_\_\_ ” \_\_\_\_\_ 20\_\_\_\_, Record No. \_\_\_\_\_

Head of Department, Doctor of Medicine, Professor Ariamkina O.L.

## 1. COURSE OBJECTIVES

- 1.1 **The objective** of the course “Occupational diseases” is to develop interdisciplinary thinking in order to form professional competencies, necessary in the framework of the professional activity of the therapist.
- The aim** is to study principles and methods of diagnosis and treatment of major occupational diseases.

## 2. COURSE OVERVIEW

|                                   |  |
|-----------------------------------|--|
| Course code<br>(in<br>curriculum) | Б1.О.04  |
| <b>2.1</b>                        | <b>Assumed background:</b>                         |
|                                   | Anatomy  |
|                                   | Chemistry  |
|                                   | Biology  |
|                                   | Internal Diseases Propaedeutics, X-Ray Diagnostics |
|                                   | Hominal physiology                                 |
|                                   | Biochemistry                                       |
|                                   | Pharmacology                                       |
|                                   | Microbiology, Virology                             |
|                                   | Histology, embryology, cytology                    |
|                                   | Clinical pathophysiology                           |
|                                   | Clinical pathologic anatomy                        |
|                                   | Pathologic anatomy                                 |
|                                   | Pathophysiology                                    |
| <b>2.2</b>                        | <b>Post-requisite courses and practice:</b>        |
|                                   | Functional diagnostics                             |
|                                   | Hospital Therapy, Endocrinology                    |
|                                   | Hospital surgery, Paediatric surgery               |
|                                   | Ambulatory Therapy                                 |
|                                   | Anesthesiology, resuscitation, intensive care      |

|  |                         |
|--|-------------------------|
|  | Clinical pharmacology   |
|  | Disaster Medicine       |
|  | Medical rehabilitation  |
|  | Oncology, X-Ray Therapy |
|  | Phthisiatry             |

### 3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

**PC-1.1: Demonstrates knowledge about the etiology, pathogenesis, diagnostic criteria (clinical – subjective, physical, laboratory, instrumental) determines the patient's main pathological conditions, symptoms, disease syndromes and diagnoses nosological forms according to the International Statistical Classification of Diseases and Health-related Problems, X – XI revisions**

**PC-1.2: Carries out diagnostics, evaluates the prognosis (short-, medium- and long-term course) of the disease, identifies acute complications and complications of chronic diseases**

**PC-3.1: Examines the patient (handle the patient's complaints, anamnesis, physical data based on the examination results, determines the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological, anatomical and other methods in order to diagnose of diseases, assesses the prognosis (short, medium, long-term) of its course and outcomes**

**PC-3.2: Makes an initial and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Health-Related Problems X - XI revisions and current clinical classifications**

**PC-3.3: Performs early and differential diagnosis**

**PC-3.4: Performs patient triage and coordinates care in accordance with current legislation, standards, medical procedures, and clinical recommendations**

**PC-6.1: Evaluates the patient's functional limitations to determine temporary or permanent disability status**

**PC-6.4: Refers patients requiring medical rehabilitation to a specialist for sanatorium treatment, including cases involving an Individual Rehabilitation Program (IRP) or Habilitation. This is performed in accordance with applicable clinical guidelines, treatment protocols, and medical care standards.**

**OPC-8.1: Conducts medical and social examinations (MSE) to assess patients' work ability and determine temporary or permanent disability status across all stages of medical care, in accordance with applicable regulations and guidelines.**

**OPC-7.2: Prescribes evidence-based treatment regimens aligned with current clinical guidelines**

**OPC-7.3: Monitors treatment effectiveness and safety for ongoing disease management prescribed according to current approved clinical guidelines.**

**OPC-6.3: Provides direct emergency care and coordinates crisis operations (evacuations, epidemic control, radiation response) in disaster settings following incident command protocols.**

**OPC-5.8: Analyzes disease pathogenesis to pinpoint dominant pathophysiological mechanisms and selects guideline-compliant pharmacotherapy.**

**OPC-1.2: Applies knowledge of Russian healthcare legislation (Federal Laws 323-FZ, 326-FZ, Labor Code) to establish and maintain doctor-patient relationships in full compliance with legal and ethical standards.**

**By the end of the course students must:**

|            |  |
|------------|--|
| <b>3.1</b> | <b>Know:</b>   |
| 3.1.1      | <ul style="list-style-type: none"> <li>- significant problems and processes</li> <li>- main pathological symptoms, clinical and laboratory syndromes;</li> <li>- the features of collecting anamnesis from patients with therapeutical profile;</li> <li>- basic and additional methods of patient's examination (in accordance with ICD).</li> <li>- clinical symptoms and pathogenesis of major diseases, their prevention, diagnosing and treating;</li> <li>- clinical symptoms of borderline states;</li> <li>- principles of the non-drug and medication therapy, physiotherapy, physical therapy and medical monitoring;</li> <li>- indications for surgical treatment of somatic pathology;</li> </ul> |

|            |  |
|------------|--|
|            | <ul style="list-style-type: none"> <li>- basics of rational diet therapy;</li> <li>- modern methods of clinical and laboratory diagnosing and treating in accordance with the standards and clinical protocols;</li> <li>- principles of differential diagnosis of the most common pathologies;</li> <li>- principles of treating and preventing diseases;</li> <li>- side effects of drugs;</li> <li>- the emergency therapeutic care in the life-threatening conditions;</li> <li>- indications for hospitalization of patients.</li> <li>- the basic principles of treating patients with different nosologies.</li> </ul>  |
| <b>3.2</b> | <b>Be able to:</b>   |
| 3.2.1      | <ul style="list-style-type: none"> <li>- conduct a survey, physical and clinical examination;</li> <li>- interpret the results of laboratory and instrumental examination.</li> <li>- interpret the results of laboratory and instrumental methods of research;</li> <li>- give a diagnosis according to the ICD based on the data from the main and additional researches;</li> <li>- conduct basic and additional researches to clarify the diagnosis;</li> <li>- use normative documents in medical practice;</li> <li>- outline the program of patient's examination;</li> <li>- formulate a detailed clinical diagnosis based on the data obtained during the examination;</li> <li>- determine the activity and the stage of the pathological process;</li> <li>- assign treatment to the patient, taking into account knowledge of the etiology and the features of the disease pathogenesis (etiological, pathogenetic treatment, basic and additional therapy, symptomatic treatment);</li> <li>- develop specific measures for the secondary prevention and rehabilitation therapy of the supervised patient;</li> <li>- keep medical records;</li> <li>- predict the necessity for the medications.</li> <li>- treat patients with different nosologies.</li> </ul> |

#### 4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

| Class Code | Topics/Class type   | Term / Academic year | Academic hours | Competences  | Literature                                     | Interactive | Notes |
|------------|---|----------------------|----------------|--|--|-------------|-------|
| 1.1        | General principles of medical care for patients with occupational diseases. Regulatory framework. / Lec/      | 9                    | 2              | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |             |       |
| 1.2        | General principles of medical care for patients with occupational diseases. Regulatory framework. /Pr/        | 9                    | 4              | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-                         | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |             |       |
| 1.3        | General principles of medical care for patients with occupational diseases. Regulatory framework /Self-study/ | 9                    | 3              | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-           | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |             |       |

|      |  |   |   |  |  |  |  |
|------|--|---|---|--|--|--|--|
| 1.4  | Periodic and preliminary medical examinations. Social security medical examination. Prevention of occupational diseases. / Lec/        | 9 | 2 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.5  | Periodic and preliminary medical examinations. Social security medical examination. Prevention of occupational diseases. /Pr/          | 9 | 4 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.6  | Periodic and preliminary medical examinations. Social security medical examination. Prevention of occupational diseases. / Self-study/ | 9 | 3 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.7  | General concepts of dust lung diseases. Pneumoconiosis /Lec/   | 9 | 2 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.8  | General concepts of dust lung diseases. Pneumoconiosis /Pr/  | 9 | 4 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.9  | General concepts of dust lung diseases. Pneumoconiosis /Self-study/  | 9 | 3 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.10 | Occupational chronic bronchitis. Occupational bronchial asthma /Lec/   | 9 | 2 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.4 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |

|      |  |   |   |  |  |  |  |
|------|--|---|---|--|--|--|--|
| 1.11 | Occupational chronic bronchitis. Occupational bronchial asthma /Pr/  | 9 | 4 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.12 | Occupational chronic bronchitis. Occupational bronchial asthma /Self-study/  | 9 | 3 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.13 | Occupational diseases caused by harmful physical factors (Vibration disease and Noise induced hearing loss) /Lec/        | 9 | 2 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.14 | Occupational diseases caused by harmful physical factors (Vibration disease and Noise induced hearing loss) /Pr/         | 9 | 4 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.15 | Occupational diseases caused by harmful physical factors (Vibration disease and Noise induced hearing loss) /Self-study/ | 9 | 3 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.16 | Industrial poisoning. Chronic occupational intoxications of lead and mercury /Lec/                                       | 9 | 2 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |
| 1.17 | Industrial poisoning. Chronic occupational intoxications of lead and mercury /Pr/  | 9 | 4 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC- | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  |  |

|      |  |   |   |   |   |  |  |
|------|--|---|---|---|---|--|--|
| 1.18 | Industrial poisoning.<br>Chronic occupational<br>intoxications of lead and<br>mercury /Self-study/ | 9 | 3 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.19 | Acute and chronic<br>professional intoxications<br>of aromatic<br>hydrocarbons /Lec/               | 9 | 2 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.20 | Acute and chronic<br>professional intoxications<br>of aromatic<br>hydrocarbons /Pr/                | 9 | 4 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.21 | Acute and chronic<br>professional intoxications<br>of aromatic<br>hydrocarbons /Self-study/        | 9 | 3 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.22 | Occupational intoxications<br>caused by the irritants<br>action /Lec/                              | 9 | 2 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.23 | Final lesson /Pr/  | 9 | 4 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |
| 1.24 | Final lesson /Self-study/  | 9 | 3 | OPC-1.2 OPC-<br>5.8 OPC-6.3<br>OPC-7.2 OPC-<br>7.3 OPC-8.1 PC-<br>1.1 PC- 1.2 PC-<br>3.1 PC-3.2 PC-<br>3.3 PC-3.4 PC-<br>6.1 PC-6.4 | L1.1, L1.2,<br>L2.1, L2.2,<br>L2.3, L2.4,<br>L3.1, L3.2 |  |  |



|      |                              |   |   |  |  |  |                             |
|------|------------------------------|---|---|--|--|--|-----------------------------|
| 1.25 | Credit with a mark / Credit/ | 9 | 0 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.2 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  | Oral interview              |
| 1.26 | Control work /Control/       | 9 | 0 | OPC-1.2 OPC-5.8 OPC-6.3 OPC-7.2 OPC-7.3 OPC-8.1 PC-1.1 PC- 1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-6.1 PC-6.2 | L1.1, L1.2, L2.1, L2.2, L2.3, L2.4, L3.1, L3.2 |  | Case history of the disease |

| 5. ASSESSMENT TOOLS   |   |  |   |          |
|---|---|--|---|----------|
| 5.1. Tests and tasks  |   |  |   |          |
| Supplement 1  |   |  |   |          |
| 5.2. Topics for written papers  |   |  |   |          |
| Supplement 1  |   |  |   |          |
| 5.3. Assessment tools   |   |  |   |          |
| Supplement 1  |   |  |   |          |
| 5.4. Assessment tools   |   |  |   |          |
| Discussion, tests, essays. Practical skill test.<br>Credit with a mark: oral credit, practical skills test. |   |  |   |          |
| 6. COURSE (MODULE) RESOURCES  |   |  |   |          |
| 6.1. Recommended Literature   |   |  |   |          |
| 6.1.1. Core   |   |  |   |          |
|   | Authors   | Title  | Publish., year                                    | Quantity |
| L1.1  | Babanov S.A., Strizhakov L.A., Fomin V.V.           | Occupational diseases: textbook                            | Moscow: GEOTAR-Media, 2021<br>electronic resource | 1        |
| L1.2  | Mukhin N.A., Kosarev V.V., Babanov S.A., Fomin V.V. | Occupational diseases: textbook                            | Moscow: GEOTAR-Media, 2021<br>electronic resource | 1        |
| 6.1.2. Supplementary  |   |  |   |          |
|   | Authors   | Title  | Publish., year                                    | Quantity |
| L2.1  | Bukhtiyarov I.V.                                    | Occupational pathology : National guidelines .             | M. : GEOTAR-Media, 2024<br>electronic resource    | 1        |
| L2.2  | Pankova V.B., Fedina I.N.                           | Occupational diseases of the ENT organs: a practical guide | M. : GEOTAR-Media, 2023<br>electronic resource    | 1        |

|  |   |   |   |          |
|--|---|---|---|----------|
| L2.3   | Gorokhova S. G.,<br>Atkov O.Yu.   | Fundamentals of professional cardiology. Cardiovascular diseases during work: a study guide   | M. : GEOTAR-Media, 2023<br>electronic resource                                | 1        |
| L2.4   | Gorblyansky Yu. Y.,<br>Kontorovich E. P.,<br>Ponamareva O. P.,<br>Panova M. A.  | Occupational pathology in questions and answers : a guide for doctors: a practical guide      | M. : GEOTAR-Media, 2023.<br>electronic resource                               | 1        |
| 6.1.3. Methodical development                            |   |   |   |          |
|  | Authors   | Title   | Publish., year  | Quantity |
| L3.1   | Matveeva N. I.,<br>Shuvalova O. I.,<br>Shevchenko O. V.,<br>Karpinsky V. N. A.  | Occupational diseases: a collection of situational tasks                                      | Surgut: Surgut Publishing Center, 2022,<br>electronic resources               | 1        |
| L3.2   | Shavaliyev O. V.,<br>Kolesova E. N. B.,<br>Fedorova S. N. B.  | Heavy metals and their effect on the body of workers: an educational and methodological guide | Saint Petersburg: NWSMU named after I.I. Mechnikov, 2022, electronic resource | 1        |
| 6.2. Internet resources                                  |   |   |   |          |
| 1  | Educational resource for doctors. Dia Academy   |   |   |          |
| 2  | Endocrinological scientific center of the ministry of health of the Russian Federation  |   |   |          |
| 3  | Medline   |   |   |          |
| 4  | Free Medical Journals   |   |   |          |
| 5  | Occupational Medicine and Industrial Environmental Science <a href="https://www.journal-irioh.ru/jour">https://www.journal-irioh.ru/jour</a>  |   |   |          |
| 6  | Journal "Consilium medicum" <a href="http://www.consilium-medicum.com/">http://www.consilium-medicum.com/</a>   |   |   |          |
| 7  | Russian medical journal   |   |   |          |
| 6.3.1 Software   |   |   |   |          |
| 6.3.1.1  | Operational system Microsoft, applied programs pack Microsoft Office  |   |   |          |
| 6.3.1.2  | Internet access (Wi-Fi)   |   |   |          |
| 6.3.2 Information Referral systems                       |   |   |   |          |
| 6.3.2.1  | «Guarantor» <a href="http://www.garant.ru">http://www.garant.ru</a>   |   |   |          |
| 6.3.2.2  | «Consultant Plus», «Consultant-region » <a href="http://www.consultant.ru">http://www.consultant.ru</a>   |   |   |          |
| 6.3.2.3  | StudentConsultant <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>   |   |   |          |
| 7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE) |   |   |   |          |
| 7.1  | Classrooms for lectures, seminars (practical classes), group and individual consultations, formative and summative control are equipped with typical educational furniture, technical teaching aids for the presentation of educational information |   |   |          |
| 7.2  | Practical classes, individual consultations, formative and summative control are held in the classroom of the Department of Internal Diseases of the Medical Institute.   |   |   |          |
| 7.3  | Simulation center   |   |   |          |
| 7.4  | The audience of the simulation center equipped with simulation equipment, laboratory tools and consumables in sufficient quantity   |   |   |          |
| 7.5  | Multimedia Projector  |   |   |          |
| 7.6  | Library of laboratory and instrumental research results   |   |   |          |
| 7.7  | Collection of roles for standardized patients   |   |   |          |
| 7.8  | Library of situational problems   |   |   |          |
| 7.9  | Clinical Script Library   |   |   |          |
| 7.10   | Evaluation library  |   |   |          |
| 7.11   | The classrooms for lectures are equipped with multimedia projectors, screen, and laptop, stationary educational board for chalk, tables, and chairs.  |   |   |          |

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| 7.12 | Classrooms have a material and technical base that is necessary for all types of disciplinary and interdisciplinary training, practical and research work of the students, and also complies with current sanitary and fire regulations and standards. |
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