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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

Head of the Department of
Therapy (Internal Medicine) with Diagnostic
Radiology Course
_____ / Kabalyk M.A./
"14th" of April 2026

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

B1.V.02 Diagnostic radiology

(name of discipline)

Specialty	**31.05.03 Dentistry for foreign students (English-language program)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing health care in patients with dental pathology)
Mode of study	**Full-time**
Period of mastering the BEP	**5 years** (nominal length of study)
Department	of Therapy (Internal Medicine) with Diagnostic Radiology Course

Vladivostok, 2026

Subject guide for teachers and students for **B1.V.02 Diagnostic radiology** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 984 of Ministry of Science and Higher Education of the Russian Federation
dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for foreign students (English-language program), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology),
approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia
Report No. 1-7/25-26 dated March 27, 2026.

Subject guide for teachers and students for **B1.V.02 Diagnostic radiology** was developed by the writing team of the Department of Therapy (Internal Medicine) with Diagnostic Radiology Course of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the head of the Department, Doctor of Medical Sciences Kabalyk M.A.

Developed by:

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1. GENERAL PROVISIONS

Subject guide for **B1.V.02 Diagnostic radiology** 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 **B1.V.02 Diagnostic radiology**. 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 **B1.V.02 Diagnostic radiology**.

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 **B1.V.02 Diagnostic radiology**. 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 **B1.V.02 Diagnostic radiology** course.

Continuous assessment during **B1.V.02 Diagnostic radiology** 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 **B1.V.02 Diagnostic radiology** 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, working with tests, discussing case studies. 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 **B1.V.02 Diagnostic radiology** and takes into account learning outcomes for all types of student work over the entire period of mastering **B1.V.02 Diagnostic radiology** 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 **B1.V.02 Diagnostic radiology**. 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

The purpose of the lectures is to prepare a specialist with a system of universal, general professional, and professional competencies formed on the basis of basic and specialized medical knowledge, skills and abilities, who is able and ready to independently solve professional problems to perform work functions.

When conducting lectures, it is essential to strictly adhere to the course curriculum. Attention should be paid to reviewing the questions and tasks included in the assignments, and, if necessary, solving similar problems with an explanation of the solution algorithm.

During lectures, students are required to take notes on the material, pay attention to categories and phrases that reveal the essence of certain phenomena and processes, as well as scientific conclusions and practical recommendations. It is advisable to leave margins in their notes for making notes from recommended literature that supplement the lecture material and highlight the particular importance of certain theoretical concepts. Ask the lecturer questions to clarify theoretical concepts and resolve arising issues.

Table 1. Subject Guides for **B1.V.02 Diagnostic radiology** Lectures

No.	Lecture Topic	Hours
1	2	3
	Semester No. 6	
1.	Methods and physical and technical basis of diagnostic radiology. Radiation safety. Diagnostic radiopaque agents	2
2.	Diagnosing diseases of the musculoskeletal system using imaging methods	2
3.	Congenital defects and anomalies of teeth and jaws. Traumatic injuries of the teeth and jaws	2
4.	Inflammatory diseases of the teeth and jaws	2
5.	Mass lesions of the jaws. Diseases of the salivary glands	2
6.	Diagnosing infectious diseases and lesions of the head and neck using imaging methods	2
7.	Diagnosing diseases of the respiratory organs using imaging methods	2
8.	Diagnosing diseases of the cardiovascular system using imaging methods	2
9.	Diagnosing diseases of the digestive organs using imaging methods	2
10.	Diagnosing diseases of the genitourinary system using imaging methods	2
	Hours per semester total	**20**

3. SUBJECT GUIDES FOR PRACTICAL CLASSES

The objective of practical classes is to prepare a specialist with a system of universal, general professional, and professional competencies formed on the basis of basic and specialized medical knowledge, skills and abilities, who is able and ready to independently solve professional problems to perform work functions.

Clinical practical classes are designed to expand and deepen students' knowledge of the subject matter and develop the skills and competencies required by the Occupational standard. They also aimed at assessing the students' knowledge of the course material, understanding of the topics covered in lectures and textbooks, the extent and quality of their assimilation of the curriculum material, and develop skills and abilities in applying theoretical knowledge to real-world problem-solving and professional situation analysis.

Practical training is conducted through hands-on work, demonstrating practical skills and abilities using simulation and modeling technologies, standardized patient scenarios, case studies, and testing. When working with a situational problem, the practitioner must analyze the situation described in the problem and answer all questions. Answers must be detailed and well-reasoned. A problem typically contains several questions, so it is advisable to answer each question separately. When solving a problem, the practitioner must select the optimal solution (use known ones or propose their own algorithms).

During class session, each student must be prepared to answer all questions posed in the lesson plan and be as proactive as possible in answering them. Their presentation should be fluent, persuasive, and well-reasoned. Answering questions should not be limited to mere recitation of text, nor should simply reading notes be permitted. It is essential that the speaker demonstrate their own perspective on the topic, express their personal opinion and understanding, justify it, and be able to draw appropriate conclusions from what they have said.

The test assignments are designed in accordance with the course curriculum. These assignments help the students assess the width and depth of their understanding of the subject matter, as well as review and systematize their knowledge. When completing the test assignments, the students should read all assignments and instructions carefully.

Table 2. Subject Guides for Practical **B1.V.02 Diagnostic radiology** Classes

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 6	
1	Imaging methods. Physical and technical basis of diagnostic radiology. Radiation safety. Diagnostic radiopaque agents and their application	4
2	Diagnosing diseases and injuries of bones and joints using imaging methods. Congenital anomalies of the bones and joints	4
3	Radiological anatomy of the maxillofacial region. Diagnosing defects and anomalies of the dentofacial system using imaging methods. Diagnosing traumatic injuries of the maxillofacial region using imaging methods	8
4	Diagnosing inflammatory processes and dystrophic changes of the maxillofacial region using imaging methods	8
5	Diagnosing cysts and lesions of the maxillofacial region using imaging methods	4
6	Diagnosing infectious diseases of the head and neck using imaging methods. Diagnosing mass lesions of the head and neck using imaging methods	8
7	Radiological anatomy of the thoracic organs. Radiographic signs of diseases of the lungs and pleura	4
8	Radiological anatomy of the heart and major vessels. Normal and pathological configurations of the cardiovascular silhouette. Congenital and acquired heart defects	4
9	Radiological anatomy of the abdominal organs. Diagnosing diseases and injuries of the digestive organs using imaging methods	4
10	Radiological anatomy of the urinary system. Diagnosing diseases of the genitourinary system using imaging methods	4
	Hours per semester total	**52**

4. GUIDELINES FOR CONTINOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during the **B1.C.44 Internal medicine** 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 prescriptions workbook quality.

Interim certification	is conducted in exam format (answering interview questions and completing a practical assignment); 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 (module) 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 31.05.03 Dentistry specialty; list of the aforementioned personnel is available on the website of the educational organization.

