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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER
PATRICE LUMUMBA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

PHYSIOTHERAPY OF DENTAL DISEASES

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of higher education:**

Dentistry

higher education program profile/specialisation title

1. COURSE GOAL(s)

The goal of the course “Physiotherapy of Dental Diseases” is to equip students with the theoretical foundations of physiotherapy and practical skills in the use of physical methods for the prevention, diagnosis, treatment and rehabilitation of dental diseases.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Physiotherapy of Dental Diseases” is aimed at the development of the following competences /competences in part: (GPC)- 8, (PC) – 2

Table 2.1. List of competences that students acquire through the course study

| Competence code | Competence descriptor | Competence formation indicators (within this course) |
|-----------------|---|--|
| GPC – 8 | Being able to use main physical and chemical, mathematic and scientific notions and methods when dealing with professional tasks. | GPC-8.1. Applying basic fundamental physical and chemical knowledge to deal with professional tasks. |
| | | GPC-8.2. Using applied natural science knowledge to deal with professional tasks. |
| PC –2 | Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment | PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs. |
| | | PC-2.13.Performing physiotherapy procedures |

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

| Competence code | Competence descriptor | Previous courses/modules* | Subsequent courses/modules* |
|-----------------|-----------------------|---------------------------|-----------------------------|
|-----------------|-----------------------|---------------------------|-----------------------------|

| Competence code | Competence descriptor | Previous courses/modules* | Subsequent courses/modules* |
|-----------------|---|-----------------------------------|---|
| GPC- 8 | Being able to use main physical and chemical, mathematic and scientific notions and methods when dealing with professional tasks. | Prevention and communal dentistry | Gerontostomatology and diseases of the oral mucosa, oral surgery, Maxillofacial and gnathic surgery, prosthetics, diseases of the head and the neck |
| PC –2 | Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment | Prevention and communal dentistry | Gerontostomatology and diseases of the oral mucosa, oral surgery, Maxillofacial and gnathic surgery, prosthetics, diseases of the head and the neck |

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)*

| Type of academic activities | Total academic hours | Semesters/training modules | | | |
|------------------------------------|----------------------|----------------------------|----|--|--|
| | | IX | | | |
| <i>Contact academic hours</i> | 48 | 48 | | | |
| including: | - | - | | | |
| Lectures (LC) | | | | | |
| Lab work (LW) | 48 | 48 | | | |
| Seminars (workshops/tutorials) (S) | | | | | |
| <i>Self-studies</i> | 24 | 24 | | | |
| Course workload | academic hours | 72 | 72 | | |
| | credits | 2 | 2 | | |

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

| Course module title | Course module contents (topics) | Academic |
|---------------------|---------------------------------|----------|
|---------------------|---------------------------------|----------|

| | | activities types |
|--|--|-------------------------|
| The theoretical basis of physiotherapy, physioprophyllaxis. The organization of physiotherapeutic dental care. | The theoretical basis of physiotherapy, physioprophyllaxis. Physiological mechanisms of physical factors. The organization of physiotherapeutic dental care. Documentation in the work of the physiotherapy room. Fundamentals of safety. | LW |
| Galvanization, medicinal electrophoresis and depophoresis in dentistry. | The mechanism of physical and physiological action of direct current, therapeutic effects in the treatment of dental diseases. Galvanization, medicinal electrophoresis in dentistry Depophoresis. Trans-channel DC current. The method of conducting depophoresis. | LW |
| Pulsed low and medium frequency currents and their use in dentistry. | Pulsed low and medium frequency currents. Indications and contraindications for use in dental practice. Electrical anesthesia. Electroodontodiagnostics, fluctuorization, amplipulse therapy. Techniques and methods of conducting. | LW |
| High-frequency alternating current, electric and electromagnetic fields and their application in dentistry. | High frequency alternating current, electrical and electromagnetic fields, their application in dentistry. Diathermy, diathermocoagulation - physical and physiological action, therapeutic effects. Method of diathermocoagulation for pulpitis, periodontitis, granulation in the periodontal pocket. | LW |
| Phototherapy. Ultrasound therapy in dentistry. | Phototherapy and laser therapy in dentistry Laser therapy of dental diseases. Ultrasound therapy in dentistry. Therapeutic effects of ultrasound. Indications and contraindications for use. | LW |
| Physical methods in the diagnosis and treatment of diseases of hard tooth tissues. | Physical methods in the diagnosis and treatment of diseases of the hard tissues of the tooth. Physiotherapy of periodontal diseases Physiotherapy in the treatment of diseases of the mucous membrane of the oral cavity. | LW |
| The main algorithms for the use of physical factors in the treatment of various dental diseases. | Physiotherapy of inflammatory processes in the maxillary area. Physiotherapy of traumatic injuries of the PMO. Physiotherapy of neurostomatological diseases Physiotherapy of TMJ diseases. | LW |

| | | |
|--|---|--|
| | Physiotherapy of diseases of the salivary glands. | |
|--|---|--|

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

| Type of academic activities | Classroom equipment | Specialised educational / laboratory equipment, software, and materials for course study (if necessary) |
|------------------------------------|---|--|
| Lecture | A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations. | |
| Lab work | A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery. | List of specialised laboratory equipment, machinery, stands, etc. |
| Seminar | A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations. | List of specialised equipment, stands, visual posters, etc. |
| Computer Lab | A classroom for conducting classes, group and individual consultations, current and mid-term assessment, equipped with personal computers (in the amount of ____pcs), a board (screen) and technical means of multimedia presentations. | List of specialised software installed on computers for mastering the discipline |
| Self-studies | A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment. | |

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RECOMMENDED SOURCES for COURSE STUDIES

Main readings:

1. software_- there is Microsoft office 2012 software for practical training

2. resources of the information and telecommunication network "Internet":
3. EBS of RUDN University and third-party EBS to which university students have access on the basis of concluded agreements:
 - a. Electronic library system RUDN - EBS RUDN
<http://lib.rudn.ru/MegaPro/Web>
 - b. EBS "University Library Online" <http://www.biblioclub.ru>
 - c. EBS Yurayt <http://www.biblio-online.ru>
 - d. EBS "Student Consultant" www.studentlibrary.ru
 - e. EBS "Doe" <http://e.lanbook.com/>
4. Databases and search engines:
 - a. PUBMED
 - b. SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>
 - c. WHO Documentation Center <http://whodc.mednet.ru/>
5. Literature:
 - a. Аппаратные методы диагностики и лечения заболеваний зубов =
Device-assisted methods of diagnostics and treatment of tooth diseases :
учебное пособие / А. Г. Волков [и др.]. – Москва : РУДН, 2020. – 80 с. :
ил. ISBN 978-5-209-10585-5

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course “Physiotherapy of Dental Diseases”
2. The laboratory workshop (if any).on the course “Physiotherapy of Dental Diseases”
3. The guidelines for writing a course paper / project (if any) on the course “Physiotherapy of Dental Diseases”.
4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC- 8, PC – 2) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order)

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