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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University
Institute of Medicine**

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

COURSE SYLLABUS

GNATHOLOGY AND TEMPORO-MANDIBULAR JOINT'SFUNCTIONAL DIAGNOSTICS

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 programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course «Gnathology and Temporo-Mandibular Joint's Functional Diagnostics» is to equip student with the knowledge of of orthopedic stage of complex treatment of patients with the diseases of the temporomandibular joint, taking into account the individual characteristics of the disease and the patient's age.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Gnathology and Temporo-Mandibular Joint's Functional Diagnostics**» is aimed at the development of the following competences /competences in part: **(CC)-1, (GPC)-5, 6, (PC)- 1,2,6.**

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
CC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	CC-1.1. Analyzing the problem situation as a system identifying its components and links between them.
GPC 5	Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analyzing the patient's complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p data-bbox="799 353 1481 472">GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.</p> <p data-bbox="799 640 1445 759">GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.</p>
GPC-6	GPC 6 Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	<p data-bbox="799 835 1481 1106">GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p> <p data-bbox="799 1458 1465 1653">GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.</p>
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases in order to make a preliminary diagnosis.</p> <p>PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.</p> <p>PC-1.4. Detecting if patients have risk factors for oncopathology (including various background processes, precancerous conditions) based on laboratory, instrumental and additional examinations in order to make a preliminary/final diagnosis.</p> <p>PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.</p>
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<p>PC-2.6. Providing orthopedic treatment for persons with defects in teeth, dentition within the temporization procedure, rehabilitation of single defects in the dentition, dental prostheses of up to three units (excluding dental implants prosthetics), partial and complete removable laminar denture using modern treatment methods approved for use in medical practice.</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-6	PC-6. Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	PC-6.1. Searching for medical information based on evidence-based medicine, interpreting data from scientific publications and/or preparing a presentation to make medical information, the results of scientific research public.

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*
CC1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics

GPC 5	Being able to examine patients to determine a diagnosis when solving professional tasks	Cariology and the disease of hard dental tissues. "Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics
GPC 6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Cariology and the disease of hard dental tissues. "Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics
PC 1	Being able to make an examination of a patient in order to determine a diagnosis	Cariology and the disease of hard dental tissues. "Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics

PC 2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Cariology and the disease of hard dental tissues. "Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics
PC 6	Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	Cariology and the disease of hard dental tissues. "Dentistry" (simple prosthetics) Prosthodontics of edentulous patient Prosthodontics (Complex Prosthetics)	Maxillofacial prosthetics

* 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 "Gnathology and Temporomandibular Joint's Functional Diagnostics" is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering

Type of academic activities	Total academic hours	Semesters/training modules
		10
Contact academic hours	45	45
<i>including:</i>		
Lectures (LC)		
Lab work (LW)	45	45
Seminars (workshops/tutorials) (S)		

Type of academic activities		Total academic hours	Semesters/training modules
			10
<i>Self-studies</i>		27	27
<i>Evaluation and assessment (exam/passing/failing grade)</i>			-
Course workload	academic hours_	72	72
	credits	2	2

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 Fundamentals of clinical gnathology (biomechanics of the dentition system). Functional analysis of the dentition system.	Fundamentals of clinical gnathology. Morphological and functional elements of the temporomandibular joint. Biomechanics of the masticatory apparatus. The occluders and articulators, face-bows. Methods of installing models in the articulator and adjusting it to the individual function of the patient.	LW
	Methods of determination and registration of central occlusion and jaw centric relation. Methods of registration of "Gothic angle". Axio - and functionography. Computer-based methods.	LW
	Costen's Syndrome. Methods of determining and registering the height of the lower face. Basics of occlusive diagnostics. "Factors of occlusion". Clinical, laboratory and instrumental methods of diagnostics of occlusive interrelation of dentition.	LW
Module 2 Functional state and diagnostics of dental system at defects of teeth and dentition, parodontal diseases.	Functional state of the dentition at the partial absence of teeth. Methods of determining a chewing function.	LW
	Functional state of the dentition at parodontal diseases. Methods of determining the functional state of the parodontium (Gnathodynamometry. Periotestometry. Parodontal rheography).	LW
Module 3 Diagnostics of pathology of the temporomandibular joint and masticatory muscles	Functional state of the dentition in diseases of the TMJ. Classification of TMJ diseases requiring orthopedic treatment. Clinical methods of diagnostics of muscle and joint dysfunction.	LW
	Functional state of the dentition in diseases of	LW

Course module title	Course module contents (topics)	Academic activities types
	TMJ. Hardware methods of examination of patients with TMJ diseases. Differential diagnostics.	
	Endocrine system	LW
	Digestive system	LW
	Respiratory system	LW
	Skin and its derivatives	LW
Module 4 Orthopedic treatment of patients with pathology of the temporomandibular joint and masticatory muscles	Basic principles of complex treatment of patients with diseases of the temporomandibular joint and masticatory muscles. Medical and diagnostic devices. The types of occlusal splints. Stages of complex treatment. Tactics of management of patients with pathology of occlusion, TMJ, masticatory muscles.	LW

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

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)
Classrooms for lecture classes, seminars, laboratory classes, independent work course design (coursework), group and individual counseling, monitoring and interim certification, as well as rooms for independent work	Specialized furniture and technical equipment for the presentation of educational information, sets of educational and visual aids, providing thematic illustrations.	Multimedia projector, laptop, screen, board; Dental instruments: occluders, articulators, facial bow, Larin apparatus.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Orthopedic dentistry [Electronic resource]: Textbook / Ed. I.Yu. Lebedenko, E.S. Kalivrajiyan. - M.: GEOTAR-Media, 2016. - 640 p. - ISBN 978-5-9704-3722-3.
2. Prosthetic technique [text]: Textbook for universities / Ed. M.M.Rasulova, T.I.Ibragimova, I.Yu.Lebedenko, . - M.: MIA, 2005. - 448 p.: ill. - ISBN 5-89481-311-5: 320.00.

3. Lebedenko Igor Yulievich. Functional and hardware research methods in orthopedic dentistry [Text]: Textbook for universities / I.Yu. Lebedenko, T.I. Ibragimov, A.N. Ryakhovsky. - M.: Medical Information Agency, 2003. - 128 p.: ill. - ISBN 5-89481-135-H: 260.00.
4. Orthopedic dentistry [Text]: Textbook / V.N. Kopeikin [and others]; The pod is red. V.N. Kopeikin, M.Z. Mirgazizova. - 2nd ed., add. - M.: Medicine, 2001. - 624 p.: ill. - (Educational literature for students of dental faculties of medical universities). - ISBN 5-225-04598-7: 276.00.
5. Gavrilov Evgeny Ivanovich. Orthopedic dentistry [Text]: Textbook / E.I. Gavrilov, A.S. Shcherbakov. - 3rd ed. revised I add. - M.: Medicine, 1984. - 576 p.: ill. - 1.70.
6. Orthopedic dentistry [Electronic resource]: Textbook / Ed. I.Yu. Lebedenko, E.S. Kalivrajiyan. - M.: GEOTAR-Media, 2016. - 640 p. - ISBN 978-5-9704-3722-3.

Additional readings

1. Bulgakov Vsevolod Sergeevich. The role of medical examination to the clinic of orthopedic dentistry in prosthetics using implants / V.S. Bulgakov, T.V. Lukyanova, I.I. Shakerov // Bulletin of the Peoples' Friendship University of Russia: Medicine. - 2010. - No. 1. - S. 125 - 129.
2. Examination of the patient in the clinic of orthopedic dentistry. Tests [Text]: Teaching aid / RUDN University; Comp. V.S. Bulgakov, Sh.Kh. Sahakyan. - M.: Publishing House of RUDN University, 2007. - 20 p.
3. Prokhonchukov Alexander Alekseevich. Functional diagnostics in dental practice [Text] / A.A. Prokhonchukov, N.K. Loginova, N.A. Zhizina. - M.: Medicine, 1980. - 272 p.: ill. - (Library of a practitioner. Important issues of dentistry). - 0.80.
4. Guide to orthopedic dentistry [Text] / Under the general. red. A.I. Evdokimova. - M.: Medicine, 1974. - 568 p.: ill. - 3.54.
5. Kurlyandsky Veniamin Yurievich. Dictionary-reference book of orthopedic dentistry / V.Yu. Kurlyandsky, D.E. Kalontarov. - Tashkent: Medicine, 1970. - 327 p.: ill. - 1.75.
6. Bulgakov V.S. Craniomandibular pain in the clinic of orthopedic dentistry: clinic, diagnosis, treatment [text] / V.S. Bulgakov, Kh.S. Shokokat, S.N. Razumova // Bulletin of the Peoples' Friendship University of Russia: Medicine. - 2011. - No. 3. - S. 131-135.

Internet sources

- 1. Electronic libraries with access for RUDN students:
 - Electronic library of RUDN – EL RUDN <http://lib.rudn.ru/MegaPro/Web>
 - EL «University Library online» <http://www.biblioclub.ru>
 - EL Urait <http://www.biblio-online.ru>
 - EL «Student Advisor» www.studentlibrary.ru
 - EL «Lan» <http://e.lanbook.com/>
- 2. Databases and search engines:
 - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
 - search system Yandex <https://www.yandex.ru/>
 - search system Google <https://www.google.ru/>
 - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

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

1. The set of lectures on the course "Gnathology and Temporo-Mandibular Joint's Functional Diagnostics

* 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 (CC)-1, (GPC)-5, 6, (PC)- 1,2,6) 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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