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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**

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

**COURSE SYLLABUS**

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**Maxillofacial and Orthognathic Surgery**

course title

**Recommended by the Didactic Council for the Education Field of:**

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**31.05.03 Dentistry**

field of studies / speciality code and title

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

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**Dentistry**

higher education programme profile/specialisation title

## 1. COURSE GOAL(S)

The goal of the course «**Maxillofacial and Orthognathic Surgery**» is to prepare the student for the examination, diagnosis and treatment of patients with traumatic injuries, diseases of the salivary glands, surgical care for patients with defects and deformities of tissues of the maxillofacial region, with diseases and injuries of the maxillofacial nerve, with diseases of the temporomandibular joint (hereinafter TMJ) and contractures of the lower jaw.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Maxillofacial and Orthognathic Surgery**» is aimed at the development of the following competences /competences in part: **GPC-2, GPC-5, GPC-6, GPC-7, GPC-9, GPC-12, PC-1, PC-2, PC-3, PC-5.**

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-2	Able to analyze the results of his/her own activities to prevent professional errors	GPC -2.1. Analyze the causes of professional errors, adverse treatment outcomes and conflict situations. The following is a summary of the results of the research and implementation of recommendations aimed at improving the medical and legal training of dentists and the prevention of professional errors, adverse outcomes and conflict situations.
GPC -5	Able to exam a patient in order to establish a diagnosis when dealing with professional tasks	GPC -5.1 Gather anamnesis, analyze patient complaints, conduct physical examination at dental appointments. Formulate a preliminary diagnosis and make a plan for laboratory and instrumental examinations of the dental patient.
GPC -6.	Able to prescribe, monitor the effectiveness and safety of non-medicinal and medication-assisted treatment for professional tasks	GPC -6.1. Develops a treatment plan for dental disease taking into account the diagnosis, age and clinical picture in accordance with the current procedures of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care. GPC -6.2 Selects medical devices (including dental materials) to make a comprehensive treatment plan for dental diseases. Supervises the further course of treatment of the patient.
GPC -7.	Aable to organize work and making professional decisions under emergency	GPC-7.1. Have an algorithm for first aid in emergencies, including in extreme conditions and mass destruction foci.

	conditions, emergencies, epidemics, and hotbeds of mass destruction	GPC -7.2 Identify conditions requiring emergency medical care, including clinical signs of sudden circulatory and respiratory arrest.
GPC-9.	Able to assess morphofunctional conditions and pathological processes in the human body to solve professional problems	GPC-9.1. Have an algorithm of clinical-laboratory and functional diagnostics when solving professional tasks. Assess the results of clinical-laboratory and functional diagnostics when solving professional tasks.
GPC-12	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	GPC-12.2 Applies comprehensive rehabilitation methods for patients with dental diseases, taking into account the general condition of the body and the presence of concomitant pathology;
PC -1	Able to diagnose children and adults with dental diseases, establish a diagnosis	PC-1.1. Conducts initial and/or follow-up examinations of a patient to establish a preliminary diagnosis.
		PC-1.2. Receives information from patients (their relatives/legal representatives), conducts patient questionnaires on general health status, identification of comorbidities in order to establish a preliminary diagnosis.
PC-2	Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety	PC-2.1. Organizes medical care in emergency and urgent forms for acute dental diseases, conditions, exacerbation of chronic diseases that are life-threatening to the patient or without clear signs of life-threatening to the patient.
		PC-2.2. selects medications and medical devices (including dental materials) for the treatment of dental diseases, evaluating the possible side effects of taking medications.
PC-3	Able to provide medical care in an emergency and urgent form	PC-3.1 Provides qualified medical care in their specialty using modern rehabilitation methods approved for use in medical practice.
		PC-3.2 Make an individual rehabilitation plan for a patient with maxillofacial diseases.
PC-5	Able to conduct medical examinations of children and adults with dental diseases	PC-5.1. Motivates patients (their relatives/legal representatives) to lead a healthy lifestyle and give up harmful habits.
		PC-5.2. develops positive behavior in patients (their relatives/legal representatives) aimed at preserving and improving health.

### 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*
GPC-2.	Able to analyze the results of his/her own activities to prevent professional errors	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Internship:</b> internship assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -5.	Able to exam a patient in order to establish a diagnosis when dealing with professional tasks	Local anesthesia and anesthesiology in dentistry, Oral surgery,	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases,
GPC -6.	Able to prescribe, monitor the effectiveness and safety of non-medicinal and medication-assisted treatment for professional tasks	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -7.	Able to organize work and making professional decisions in case of emergencies, epidemics, and hotbeds of mass destruction	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Internship:</b> internship assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -9.	Is able to assess morphofunctional conditions and pathological processes in the human body to solve professional problems	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases,

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		<b>Practice:</b> industrial practice assistant dentist surgeon	Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC-12	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient		
PC-1.	Able to diagnose children and adults with dental diseases, establish a diagnosis	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
PC-2.	Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint
PC-3.	Able to provide medical care in an emergency and urgent form	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist

PC-5.	Able to conduct medical examinations of children and adults with dental diseases	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
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\* 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 6 credits (216 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		
		8	9	10
<i>Classroom learning, ac.h.</i>	150	51	51	51
Including:				
Lectures (LC)				
Lab work (LW)	150	51	51	51
Seminars (workshops/tutorials) (S)				
<i>Self-studies</i>	57	15	25	18
<i>Evaluation and assessment (exam/passing/failing grade)</i>	15	6	6	3
<b>Course workload</b>				
academic hours	<b>216</b>	<b>72</b>	<b>72</b>	<b>72</b>
credits	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

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

#### 5. COURSE CONTENTS

Course module title	Course module contents (topics)	Academic activities types
<b>Module 1</b> Infectious inflammatory diseases of the maxillofacial region	1.1 Actinomycosis of the maxillofacial region. Tuberculosis, syphilis of the maxillofacial region.	LW
	1.2 Boils, facial carbuncles. Rust infection	LW
<b>Module 2</b> Diseases and injuries of the salivary glands	2.1 Anatomy of salivary glands. Reactive-dystrophic changes (sialosis).	LW
	2.2 Inflammatory diseases of the salivary glands.	LW

	Salivary gland disease. Damage to the salivary glands.	
<b>Module 3</b> Traumatic injuries of the maxillofacial region.	3.1 Statistics and classification of injuries of the maxillofacial region. Classification. Damage to the soft tissues of the face.	LW
	3.2 Non-gunshot injuries of the facial skull bones and teeth. Dislocations and fractures of teeth. Fractures of the alveolar process. Fractures of the upper and lower jaw	LW
	3.3 Methods of immobilization in jaw fractures. General methods of treatment and care of patients with jaw fractures.	LW
	3.4 Fractures of the zygomatic bone and arch. Fractures of the nasal bones.	LW
<b>Module 4</b> Diseases of the trigeminal and facial nerves	4.1 Neuritis and trigeminal neuralgia	LW
	4.2 Lingual Pharyngeal Nerve Neuralgia	LW
	4.3 Facial Nerve Damage	LW
<b>Module 5</b> Diseases of the temporomandibular joint	5.1 Inflammatory diseases of the temporomandibular joint	LW
	5.2 Dystrophic diseases of the temporomandibular joint	LW
	5.3 Temporomandibular joint ankylosis Lower jaw contracture	LW
	5.4 Internal Disorders of the Temporomandibular Joint	LW
<b>Module 6</b> Military field surgery	6.1 Organization of military maxillofacial surgery. Peculiarities of gunshot wounds. Firearm injuries of soft tissues of the face. PCS of wounds.	LW
	6.2 Gunshot injuries of facial bones. Combined injuries of the maxillofacial region.	LW
	6.3 Facial burns (thermal, electric burns, chemical burns, frostbites). Combined radiation lesions of the face and oral tissues.	LW
	6.4 Complications of gunshot and radial injuries. Methods of treatment of victims in emergency conditions.	LW
<b>Module 7</b> Restorative surgery of the maxillofacial region	7.1 Goals and objectives of reconstructive surgery. Planning of reconstructive surgery. Plastics with local tissues.	LW
	7.2 Plastics with stem flaps. Plastics with Filatov's stem flap	LW
	7.3 Free tissue grafting. Surgical treatment of jaw deformities.	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)
Lab-work	Auditorium for laboratory work, individual consultations, current monitoring and interim certification, equipped with a set of specialized furniture and equipment. (FGSN 286, CDC classroom 2)	PC, Microsoft Products (OS, office applications package), Projector. Medicaid tables. Photographs of optical patients. Videos with operational interventions A set of radiographs and computed tomograms. Broadcasting operations from the operating room to the screen in the training room in online mode. Macro preparations, models, training phantoms. Surgical instrument sets for tooth extraction, dental implants, and various types of sutures.
Self-studies	Auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS. (FGSN 286, CDC Auditorium 2, Main Building Lecture Hall)	Microsoft products (OS, office applications package) Medical textbook tables, PC, projector, Photos of thematic patients. Videos with surgical interventions A set of radiographs and computed tomograms. Broadcasting operations from the operating room to the screen in the training room in online mode. Macro preparations, models, training phantoms. Surgical instrument sets for tooth extraction, dental implant placement, splinting of teeth and jaws, cheekbone repositioning, different types of sutures.

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

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### Main readings:

1. Maxillofacial Surgery : textbook / edited by A.Yu. Drobyshev, O.O. Yanushevich. - Moscow : GEOTAR-Media, 2018. - 880 c. - ISBN 978-5-9704-4081-0.
2. Surgical Dentistry : textbook / ed. by V.V. Afanasiev. Afanasiev. - 3rd ed. revised. - M. : GEOTAR-Media, 2016. - 400 c. - ISBN 978-5-9704-3704-9.
3. Surgical Dentistry and Maxillofacial Surgery : National Guide / edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeev. - Moscow : GEOTAR-Media, 2015. - 928 c. - (National guidelines). - ISBN 978-5-9704-3727-8.
4. Zandelov V.L., Gunko V.I. et al. "Sialolithiasis. Etiopathogenesis, clinic, features of diagnostics, treatment methods". tutorial. - Moscow: RUDN, 2007.

5. Gunko V.I., Zandelov V.L., Trufanov V.D. et al. A brief guide to the specialty "Maxillofacial Surgery" PFUR. Moscow, 2008. 76p.
6. Zandelov V.L., Gunko V.I. Do Minh F. Odontogenic and neodontogenic cysts of the jaws. - Moscow: PFUR, 2013.
7. Zandelov V.L., Gunko V.I. Shabaev M.M. Congenital cysts and fistulas of the face and neck. - Moscow: PFUR, 2013.
8. Zandelov V.L., Gunko V.I. , Grishkov A.S., Boichevskaya V.A. Inflammatory diseases of salivary glands. Sialosis and sialoadenopathy. - Moscow: PFUR, 2014.

*Additional readings:*

1. Surgical Dentistry. Inflammatory and dystrophic diseases of salivary glands: textbook / A.M. Panin, I.V. Gaiduk, V.I. Vasiliev [et al]; edited by A.M. Panin. - 2nd ed., revised and extended ; Electronic textual data. - Moscow : Literra, 2020. - ISBN 978-5-4235-0354-3.
2. Peculiarities of treatment of odontogenic cystic neoplasms of the lower jaw by cystotomy / B.Y. Asnin, S.A. Asnina, A.Yu. Drobyshev [et al.] // Stomatology. - 2020. - № 7. 99 (6). - С. 33 - 37.
3. Diseases of teeth and oral cavity : textbook / I.M. Makeeva, S.T. Sokhov, M.Y. Alimova [et al.]  
- Electronic text data. - Moscow : GEOTAR-Media, 2020. - 256 c. : ill. - ISBN 978-5-9704-5675-0.
4. Nerobeev A.I. Restoration of head and neck tissues by complex arterialized flaps//Monograph.Moscow: Medicine, 1988. 269 c.
5. Khitrov F.M. Atlas of plastic surgery of face and neck. Moscow, 1984.203 p.
6. Bezrukov V.M. N.A. Rabukhina, V.I. Gunko, et al. Deformities of the facial skull. M. MedicalInformation Agency. 2005. 304 c.

*Internet (based) sources*

1. Electronic libraries with access for RUDN students:  
PFUR Libraries and third-party Libraries, to which university students have access on the basis of contracts:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- University Library Online Libraries <http://www.biblioclub.ru> - Yurite Libraries <http://www.biblio-online.ru>
- Student's Consultant EBS [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EBS "Lan" <http://e.lanbook.com/>

2. Databases and search engines:

- electronic collection of legal and regulatory and technical documentation <http://docs.cntd.ru/>
- SCOPUS abstract database [http://www.elsevier.com/locate/scopus/](http://www.elsevier.com/locate/scopus)
- WHODocumentation Center <http://whodc.mednet.ru/>
- Surgery Digital Library <http://surgerylib.ru/>

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

1. The set of lectures on the course «**Maxillofacial and Orthognathic Surgery**»
2. The laboratory workshop (if any).on the course «**Maxillofacial and Orthognathic Surgery**»
3. The guidelines for writing a course paper / project (if any) on the course «**Maxillofacial and Orthognathic Surgery**».
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-2, GPC-5, GPC-6, GPC-7, GPC-9, PC-1, PC-2, PC-3, PC-5) 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).

### **DEVELOPERS:**

**Associate Professor of the  
Department maxillofacial  
surgery  
and surgical dentistry**

**V.D. Trufanov**

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position, department

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signature

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name and surname

### **HEAD OF EDUCATIONAL DEPARTMENT:**

**Department maxillofacial  
surgery and surgical dentistry**

**S.Yu. Ivanov**

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name of department

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signature

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name and surname

### **HEAD**

### **OF HIGHER EDUCATION PROGRAMME:**

**Deputy Director of  
Institute of Medicine for  
the field Dentistry**

**S.N. Razumova**

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position, department

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signature

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name and surname