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ФИО: Ястребов Олег Александрович
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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 program developer

COURSE SYLLABUS

IMPLANTOLOGY AND RECONSTRUCTIVE SURGERY

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 program of
higher education:**

Dentistry

higher education program profile/specialization title

2025

1. COURSE GOAL(s)

The goal of the course «**Implantology and Reconstructive Surgery**» is to train a dentist capable of examining, diagnosing, and treating patients with precancerous conditions and tumor processes in the maxillofacial region.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Implantology and Reconstructive Surgery**» is aimed at the development of the following competences /competences in part: GPC-2, GPC-5, GPC-6, GPC-7, GPC-9, 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 results of given activities to prevent professional mistakes.	GPC-2.1. Analyzing the causes of professional errors, therapeutic failures and conflict situations.
		GPC-2.2. Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.
GPC-5	Able to examine a patient in order to establish a diagnosis while solving professional problems	GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
GPC-6	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	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
		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.
GPC-7	Able to organize work and make professional decisions in case of emergency, in emergencies, epidemics and in outbreaks of mass destruction	GPC-7.1. Being able to use the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction.
		GPC-7.2. Identifying conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and acute respiratory failure.

GPC-9	Able to assess morphological and functional states and pathological processes in the human body to solve professional problems	GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks
		GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.
PC-1	Able to diagnose children and adults with dental diseases, making a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.
		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.
PC-2	Able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.1. Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the patient's life.
		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-3	Able to prescribe and conduct treatment of children and adults with dental diseases, monitoring its effectiveness and safety	PC-3.1. Providing qualified medical care in the specialty using modern rehabilitation methods approved for use in medical practice.
		PC-3.2. Drawing up an individual rehabilitation plan for a patient with diseases of the maxillofacial area.
PC-5	Able to make medical examinations to children and adults with dental diseases	PC-5.1. Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits.
		PC-5.2. Promoting positive behavior so that patients (their relatives/legal representatives) maintain and improve their level of 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 analyse the results of their own professional activity to prevent professional errors	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint
GPC-5.	Able to examine patients to determine a diagnosis when solving professional tasks	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant
GPC-6.	Able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Pharmacology, Histology, Embryology, Cytology – Oral histology, Microbiology, Virology – Oral microbiology, Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Clinical Pharmacology Practice: manufacturing practice dental assistant

GPC-7.	Able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction	Public Health, Healthcare, Health and wellness, Epidemiology, Emergency medicine, Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant
GPC-9.	Able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant
PC-1.	Able to make an examination of a patient in order to determine a diagnosis.	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant

PC-2.	Able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant
PC-3.	Able to provide emergency medical treatment	Public Health, Healthcare, Health and wellness, Epidemiology, Emergency medicine,	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional
		Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant	diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant
PC-5.	Able to make medical examinations to children and adults with dental diseases	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics, Forensic Sciences Practice: manufacturing practice dental surgeon assistant	Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant

* 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
			10 (A)
Contact academic hours		51	51
including:			
Lectures (LC)			
Lab work (LW)		51	51
Seminars (workshops/tutorials) (S)			
Self-studies, ac.h.		15	15
Evaluation and assessment (exam or pass/fail grading), ac.h.		6	6
Total workload of the discipline	ac.h.	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 Anomalies and defects of maxillofacial region	1.1 Surgical treatment for anomalies and defects of the upper and lower jaws. Operative intervention.	LW
Module 2 Periodontology	2.1 Surgical preparation of the oral cavity for prosthetics (bone grafting).	LW
	2.2 Operations on the soft tissues of the oral cavity.	LW
	2.3 Surgical methods in the complex treatment of periodontal diseases	LW
Module 3 Dental and maxillofacial implantation	3.1 Dental and maxillofacial implantation.	LW
	3.2 Types of implantation. Indications, contraindications, diagnostics, preparation for surgery, methods of surgery.	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	An auditory for conducting laboratory work, individual consultations, ongoing assessments, and interim certification, equipped with a set of specialized furniture and equipment.	Set of specialized furniture; Interactive system: Epson projector EB680Wi (V11H742041). Made in Finland ,Monobloc, Dell Optiplex 7780 512 Г6+1 Т6., Presenter Logitech Wireless Presenter Professional R700; Microsoft (Operating System, Office application suite, including MS Office) MS Office/ Office 365, Teams); magnetic whiteboard 100x150 cm.; Simulators : dental phantoms PHT, GF dental, Table-edge mount for phantom head, , GF dental, Model of the upper and lower jaw for practicing manipulations in dental surgery

Type of auditory	Auditorium equipment	Specialized teaching/laboratory equipment, software, and materials for mastering the discipline (if necessary)
		(manufacturer: Dental Store, Republic of Italy (Italy)), Portable surgical dental implant unit Implantmed SI-923. Manufacturer: W&H Dental.Werk Bürmoos GmbH" / Republic of Austria, Surgical dental handpiece S-9 LG (1:1 (manufacturer: W&H Dentalwerk Burmoos GmbH/ W&H Dental.Werk Bürmoos GmbH" / Republic of Austria, Skull model consisting of 10 parts with color markings, GF Dental; Set of instruments: double-ended medium curette (surgical spoon #11), needle holder, 14 cm (121-315) (Medenta), straight anatomical forceps 150 x 2.5 mm. (Sammarlnt.), Kidney-shaped tray LMP - "MEDIKON", 200x120x30 mm (V = 0.3 L) (Medikon); Curved dental tweezers Psi type (150x0.8 mm) (MMIZ). Teeth extraction forceps, Elevator, set of 10. (Asa Dental)

Self-studies	An auditory for independent student work (which may also be used for conducting seminars and consultations), equipped with specialized furniture and computers with access to the electronic information and educational environment (EIOS).	Set of specialised furniture; Interactive complex: Projector Set of specialised furniture; Interactive complex: Projector Epson EB680Wi (V11H742041). Made in Finland Monobloc Dell Optiplex 7780 512 Γ6+1 T6.,Presenter Logitech Wireless Presenter Professional R700; Software products Microsoft (Operating System, Office application suite, including MS Office/ Office 365, Teams); Magnetic Whiteboard 100x150 cm.; Simulators: Dental phantoms PHT, GF dental, Table-edge mount for phantom head, GF dental, Upper and lower jaw models for practicing surgical dentistry procedures (manufacturer: Dental Store, Italian Republic (Italy)); Portable surgical dental implant unit Implantmed SI- 923. Manufacturer: W&H Dentalwerk Bürmoos GmbH / Republic of Austria; Surgical handpiece S-9 LG (1:1 Manufacturer: W&H Dentalwerk Burmoos GmbH / "W&H Dentalwerk Burmoos GmbH", Republic of Austria. Skull model consisting of 10 parts with color coding, GF Dental; Instrument set: Medium double-ended curette (curettage spoon No. 11). Needle holder, 14 cm (121- 315) (Medenta); Anatomical straight forceps, 150 x 2.5 mm (Sammarlnt.);
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Kidney-shaped tray LMP - "MEDIKON", 200 x 120 x 30 mm (V=0.3 L) (Medikon); Curved dental forceps Psi, 150 x 0.8 mm (MMIZ); Tooth extraction forceps and elevators, set of 10 pieces (Asa Dental).

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Maxillofacial Surgery: Textbook / Edited by A.Yu. Drobyshev, O.O. Yanushevich. — Moscow: GEOTAR-Media, 2021. — 880 pages. — ISBN 978-5-9704-5971-3.
2. Bone Grafting Prior to Dental Implantation: Study Guide / A.A. Kulakov, R.Sh. Gvetadze, T.V. Braylovskaya, S.V. Abramyan. — Electronic text data. — Moscow: GEOTAR-Media, 2023. — 112 pages. — ISBN 978-5-9704-7426-6.
3. Radiological Studies in Dentistry and Maxillofacial Surgery: Atlas / A.P. Arzhantsev. — Moscow: GEOTAR-Media, 2016. — 320 pages. — ISBN 978-5-9704-3773-5.

Additional readings:

1. Surgical Dentistry: Textbook / S.V. Tarasenko, E.A. Morozova, I.V. Bondarenko [et al.]; edited by S.V. Tarasenko. — Electronic text data. — Moscow: GEOTAR-Media, 2021. — 672 pages. — ISBN 978-5-9704-6211-9.
2. Topographic Anatomy and Operative Surgery: Textbook in 2 volumes. Vol. 1 / V.I. Sergienko, E.A. Petrosyan, I.V. Frauchi; edited by Yu.M. Lopukhin. — 3rd edition, revised; Electronic text data. — Moscow: GEOTAR-Media, 2023. — 832 pages. — ISBN 978-5-9704-7234-7.

Information and Telecommunication Network Resources of the Internet:

1. RUDN Electronic Library System (ELS/ЭБС) and third-party ELS resources accessible to university students under existing agreements:
 - RUDN Electronic Library System – ELS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - ELS "University Online Library" <http://www.biblioclub.ru>
 - ELS Yurayt <http://www.biblio-online.ru>
 - ELS "Student Consultant" www.studentlibrary.ru
 - ELS "Troitsky Bridge"
2. Databases and Search Engines
 - Electronic fund of legal and regulatory-technical documentation <http://docs.cntd.ru/>
 - Yandex search engine <https://www.yandex.ru/>
 - Google search engine <https://www.google.ru/>
 - SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent student work in mastering the

Discipline/Module:*

Lecture course on the discipline “Implantology and Reconstructive Oral Surgery.”

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**

position, department

signature

V.D. Trufanov

name and surname

HEAD OF EDUCATIONAL DEPARTMENT: of the Department maxillofacial

surgery and surgical dentistry

name of department

signature

S.Yu. Ivanov

name and surname

HEAD OF HIGHER EDUCATION PROGRAMME:

**Deputy Director MI RUDN
by specialty Dentistry**

position, department

signature

S. N. Razumova

name and surname