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

Anatomy

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

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

General Medicine

higher education programme profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course "Anatomy" is to equip students with the knowledge of acquisition of the structure of the Human Body structure of organs and organ systems they topography and the development on the basis of modern achievements macro- and microscopic anatomy as well as formation of general professional medical competence in matters of structural organization of basic processes of living organism.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Anatomy" is aimed at the development of the following competences /competences in part: **GC-1.1; GPC-1.1; GPC-5.3.**

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

Competence code	**Competence descriptor**	**Competence formation indicators** (within this course)
GC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	GC-1.1. Analyzes scientific and technical literature and regulatory documents of medical organizations.
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	GPC -1.1. Be able to comply with moral and legal norms in professional activities.
GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	GPC-5.3. To be able to determine the morphofunctional, physiological states and pathological processes of the human body

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*
GC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	Biology	Topographic anatomy and operative surgery
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	Biology	Topographic anatomy and operative surgery; Propedeutics of internal diseases
GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	Biology	Topographic anatomy and operative surgery; Propedeutics of internal diseases; General surgery; Urology; Traumatology and orthopedics; Obstetrics and gynecology; Otorhinolaryngology

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course amounts to 12 credits (432 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		
			1	2	3
Contact academic hours		***306***	***102***	***102***	***102***
including:					
Lectures (LC)		68	34	17	17
Lab work (LW)		238	68	85	85
Seminars (workshops/tutorials) (S)					
Self-studies		*72*	*24*	*24*	*24*
Evaluation and assessment (exam/passing/failing grade)		*54*	*18*	*18*	*18*
Course workload	academic hours	**432**	**144**	**144**	**144**

Type of academic activities		Total academic hours	Semesters/training modules		
			1	2	3
	credits	12	4	4	4

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
1. Somatology	**Topic 1.1.** Bones and joints of trunk	LC, LW
	Topic 1.2. Bones and joints of the limbs	LC, LW
	Topic 1.3. Bones and joints of the skull	LC, LW
	Topic 1.4. Muscular system	LC, LW
2. Splanchnology	**Topic 2.1.** Digestive system	LC, LW
	Topic 2.2. Respiratory system	LC, LW
	Topic 2.3. Endocrine glands	LC, LW
	Topic 2.4. Urinary and Reproductive systems	LC, LW
3. Cardiovascular and lymphoid systems	**Topic 3.1.** Cardiovascular system	LC, LW
	Topic 3.2. Lymphoid system. Lymphatic drainage path	LC, LW
4. Nervous system and sense organs	**Topic 4.1.** Central nervous system	LC, LW
	Topic 4.2. Cranial nerves	LC, LW
	Topic 4.3. Spinal nerves and their derivatives	LC, LW
	Topic 4.4. The autonomic nervous system	LC, LW
	Topic 4.5. Sensory organs	LC, LW

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	Audience for lecture-type classes equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	Classroom for lectures and seminars, group and individual consultations, current monitoring and intermediate certification, equipped with a set of specialized furniture; technical means: a TOSHIBA X200 multimedia projector, an ASUS F9E Core 2 DUO T5750 laptop, Internet access is available. Software: Microsoft products (OS, office

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		application package, including MS Office/ Office 365, Teams, Skype)
Lab work	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	
Seminar	An auditorium for Seminars, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	Classroom for Seminars, group and individual consultations, current monitoring and intermediate certification, equipped with a set of specialized furniture; technical means: a TOSHIBA X200 multimedia projector, an ASUS F9E Core 2 DUO T5750 laptop, Internet access is available. Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Teams, Skype); a set of thematic anatomical models.
Computer Lab	A computer class for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers (in the amount of 15), a board (screen) and technical means of multimedia presentations.	A set of specialized furniture; technical means: a TOSHIBA X200 multimedia projector, an ASUS F9E Core 2 DUO T5750 laptop, Internet access is available. Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Teams, Skype)
Self-studies	An auditorium for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	A set of specialized furniture; a set of thematic anatomical models.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Sapin M.R. Textbook of Human Anatomy: For Medical Students [Text] : In 2 volumes. Volume 2 / M.R. Sapin, L.L. Kolesnikov, D.B. Nikitjuk; Edited by M.R.Sapin. - Книга на английском языке. - Moscow : New Wave Publishing Agency, 2018. - 479 p. : il. - ISBN 978-5-7864-0211-8 : 3608.46.

2. Sapin M.R. Textbook of Human Anatomy: For Medical Students [Text] : In 2 volumes. Volume 1 / M.R. Sapin, L.L. Kolesnikov, D.B. Nikitjuk; Edited by M.R.Sapin. - Moscow : New Wave Publishing Agency, 2018. - 416 p. : il. - ISBN 978-5-7864-0210-1 : 3590.45.

Additional readings:

1. Human anatomy: the textbook in 2 v./ M.Prives, N.Lysenkov, V.Bushkovich. – M.,Mir Publishers, 1989.

2. Hansen J.T. Netter's Clinical Anatomy / J.T. Hansen, F.H. Netter. - 4th Edition ;. - Philadelphia : Elsevier, 2019. - 588 p. : il. - ISBN 978-0-323-53188-7 : 7642.32.

3. Textbook of Human Anatomy : In 3 vol. Vol. 1 : Locomotor apparatus / L.L. Kolesnikov [и др.]. - M. : Geotar-media, 2018.
- 288 p. - ISBN 978-5-9704-4038-4.

4. Drake R.L. Gray's Anatomy for Students / R.L. Drake, W.A. Vogl, Mitchell Adam W.M. - Third Edition ; - Philadelphia : Elsevier, 2015. - 1161 p. : il. - ISBN 978-0-7020-5131-9 : 8197.77.

5. Netter F.H. Atlas of human anatomy [Text] / F.H. Netter. - 6th ed. ; Книга на английском языке; International edition. - Philadelphia : Saunders : Elsevier, 2014. - 591 p. : il. - ISBN 978-1-4587-0418-7 : 5115.00.

Internet-(based) sources:

- Electronic libraries with access for RUDN students
  http://lib.rudn.ru/MegaPro/Web
  http://www.biblioclub.ru
  http://www.biblio-online.ru
  www.studentlibrary.ru
  http://e.lanbook.com/
- Databases and search engines
  http://docs.cntd.ru/
  https://www.yandex.ru/
  https://www.google.ru/
  http://www.elsevierscience.ru/products/scopus/

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

1. The set of lectures on the course “Anatomy”

* 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 (**GC-1.1; GPC-1.1; GPC-5.3.**) 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 of Human Anatomy		
position, department	signature	name and surname
Head of the Department Human Anatomy		V. I. Kozlov
position, department	signature	name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

Department Human Anatomy		V. I. Kozlov
name of department	signature	name and surname

HEAD
OF HIGHER EDUCATION PROGRAMME:

First Deputy Director of Medical Institute for academic affairs		I.V. Radysh
position, department	signature	name and surname