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

**Institute of Medicine**

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

**COURSE SYLLABUS**

Neurology

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course title

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

31.05.03 Dentistry

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field of studies / speciality code and title

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

Dentistry

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course «**Neurology**» is to equip students with knowledge of stomatology students about basics of semiotics, topical diagnosis, nosology, additional methods of investigation, differential diagnosis and neurological treatment.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The mastering of the the course (module) «**Neurology**» is aimed at the development of the following competences /competences in part: General Professional Competences- (GPC)-5, 6: GPC -5.1, GPC -5.2, GPC - 5.5, GPC -5.8; GPC -6.1, GPC -6.4, GPC - 6.8.

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
GPC-5.	The ability to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing 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-5.5. Referring a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards

		GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.
GPC-6	The ability to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	<p>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>GPC-6.4. Providing medical care to a dental patient in emergency or urgent forms.</p> <p>GPC-6.8. Prescribing non-drug treatment taking into account the diagnosis, age and disease pattern 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>

### 3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course «Neurology »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*
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Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC-5.	The ability to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Faculty therapy	
GPC-6	The ability to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Faculty therapy	

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course «Neurology» is 3 credits (108 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			
		8			
<i>Contact academic hours</i>	<i>108</i>	<i>108</i>			
including:					
Lectures (LC)					
Lab work (LW)	48	48			
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	<i>60</i>	<i>60</i>			
<i>Evaluation and assessment (exam/passing/failing grade)</i>					
<b>Course workload</b>	academic hours	<b>108</b>			
	credits	<b>3</b>			

\* 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
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		<b>types</b>
Section 1. Introduction to neurology. Central and peripheral nervous systems. pyramid system. Extrapyramidal system and cerebellum	Anatomy and physiology of the pyramidal, extrapyramidal system, cerebellum. Study of the volume of active movements of muscle strength and tone, physiological and pathological reflexes. Signs of central and peripheral paralysis. Syndromes of lesions of the extrapyramidal system The method of studying the functions of the cerebellum and the symptoms of the lesion.	<b>LW</b>
Section 2 Sensitivity. Research methods, symptoms of damage and types of sensitivity disorders. Trigeminal system as part of general sensitivity.	Pathways of superficial and deep sensitivity. Methodology for the study of superficial and deep sensitivity. Symptoms of damage and types of disorders of sensitivity.	<b>LW</b>
Section 3 Cranial nerves. Research methods and clinical syndromes of lesions 1,2,3,4,5,6,8,11 CN	Anatomy and physiology 1,2,3,4,5,6,8,11 CN. Research methodology and symptoms of the lesion.	<b>LW</b>
Section 4. Trigeminal nerve system. Vegetative ganglia of the head. facial nerve. Caudal group of cranial nerves (9-12) and their symptoms.	Anatomy and physiology of the trigeminal nerve and autonomic ganglia of the head, research methods and symptoms of the lesion. Anatomy and physiology 7,9,10,12 CN, research methodology and symptoms of the lesion. Bulbar and pseudobulbar paralysis. Alternating syndromes	<b>LW</b>
Section 5. Autonomic nervous system. The main manifestations of disorders of the nervous system in the face and head. Innervation of salivation. Higher nervous activity. limbic system.	Autonomic nervous system. The main symptoms of damage to the ANS in the face and head. Innervation of salivation. Higher nervous activity. The study of speech, counting, memory, gnosis, praxis. Functional differences between the right and left hemispheres. Anatomy and physiology of the limbic system, symptoms of damage	<b>LW</b>

Section 6 Trigeminal and glossopharyngeal neuralgia. Postherpetic trigeminal neuropathy. Glossalgia and dental plexalgia.	Trigeminal and glossopharyngeal neuralgia Glossalgia and dental plexalgia. Etiology, pathogenesis, clinic, diagnostics, differential diagnostics and treatment.	<b>LW</b>
Section 7. Myofascial pain dysfunctional syndrome of the face, Ganglionitis. Neuropathy of the facial nerve. Facial hyperkinesis	Myofascial pain dysfunctional syndrome of the face. Ganglionitis of the pterygopalatine, ciliary, submandibular, sublingual, nasociliary and ear-temporal, geniculate and upper cervical nodes. Neuropathy of the facial nerve. Facial hyperkinesis: hemifascial spasm, Meige syndrome, blepharospasm, oromandibular dystonia	<b>LW</b>
Section 8 Acute disorders of cerebral circulation. Closed traumatic brain injury	Stroke on ischemic and hemorrhagic type. Etiology, clinic, diagnostics. first aid measures at the prehospital stage, treatment, prevention. TBI, etiology, clinic, diagnosis, treatment	<b>LW</b>
Section 9 Inflammatory diseases of the central and peripheral nervous system, meningitis, meningoencephalitis, polyneuropathy, neuroAIDS, neurosyphilis, multiple sclerosis	Meningitis, meningoencephalitis, polyneuropathy, neuro-AIDS, neurosyphilis, multiple sclerosis. Etiology, clinical picture, diagnosis and treatment.	<b>LW</b>
Section 1.0 Syringomyelia, syringobulbia, brain tumors, epilepsy	Syringomyelia, syringobulbia, brain tumors, Etiology, clinical picture, diagnosis and treatment. Epilepsy: etiology, clinic, types of convulsive seizures, diagnosis, first aid at the prehospital stage, treatment.	<b>LW</b>

\* - 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*

<b>Type of academic activities</b>	<b>Classroom equipment</b>	<b>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</b>
Lab Work	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	Classroom for conducting lecture and seminar classes, group and individual consultations, current control and intermediate certification. A set of specialized furniture; technical means: ViewSonic PJD5153 multimedia projector, ACER EXTENSA EX2511G-31JN Core i3 136x768 laptop has Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams, Skype)
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	A set of specialized furniture; technical means: ViewSonic PX702HD multimedia projector, ACER EXTENSA EX2511G-31JN Core i3 136x768 laptop with Internet access. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams, Skype) a list of specialized equipment, stands, visual posters, etc.
Self-studies	An 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.	

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Neuroanatomy through clinical case by Hal.Blumenfeld, 2011.
2. Handbook of neurology edited by U.S. MARTINOV, MOSCOW 2000, 2013.

3. Guide to neurological history taking and examination. Garabova N.I., Burzhunova M.G., Strutsenko A.A., Nozdryukhina N.V. 2017
4. Glossary on neurology N.U. Nozdrukina, A.A. Strutsenko, N.I. Garabova, Burzhunova M.G.
5. Harrison's Principles of Internal Medicine. Neurology chapters.
6. Oxford Handbook of Neurology by Manji, H., [et al]. 2014.

*Additional readings:*

1. Textbook for dental students of medical faculties. Stepanchenko A.V., Puzin M.N., Tsunikov A.I., Trubina L.G., Nesterenko G.M. Neurological diseases: – Moscow., 2017.
2. Topical diagnosis in diseases of nervous system. Triumphov A.V. – SPb., 2014.
3. Bradleys neurology in clinical practice Daroff, R. B., [et al]. 2016.
4. Typical trigeminal neuralgia Stepanchenko A.V., Moscow, 2014.

*Internet (based) sources*

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:
  - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
  - ELS "University Library Online" <http://www.biblioclub.ru>
2. Databases and search engines:
  - electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
  - Google search engine <https://www.google.ru/>
  - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

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

The set of lectures on the course “Neurology”

\* 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-5, 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).

**DEVELOPERS:**

Associate Professor of the  
Department of Neurological  
diseases and Neurosurgery

N. V. Nozdrukhhina

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position, department

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signature

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name and surname

Head of the Department  
Neurological diseases and  
Neurosurgery

G.E. Chmutin

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position, department

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name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**

Neurological diseases and  
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G.E. Chmutin

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**HEAD  
OF HIGHER EDUCATION PROGRAMME:**

Deputy Director of  
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