Документ подписан простой электронной подписью Информация о владельце:

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Уникальный программный ключ:NAMED AFTER PATRICE LUMUMBAca953a0120d891083f939673078ef1a989dae18aPUDN University

RUDN University

Institute of Medicine
educational division (faculty/ <u>institute</u> /academy) as higher education program developer
COURSE SYLLABUS
TELEMEDICINE course title
course title
Recommended by the Didactic Council for the Education Field of:
Recommended by the Didactic Council for the Education Field of.
31.05.03 Dentistry
The course instruction is implemented within the professional education
program of higher education:
Dontistm
Dentistry

1. COURSE GOAL(s)

The goal of the course "Telemedicine" is to equip students with the knowledge in the field of information technology, namely the use of remote technologies in healthcare practice with:

- emergency and planned teleconsultative and medical assistance to patients who are at a considerable distance from the consultant doctor, including during emergency response,
- tele-education and advanced training of medical personnel,
- patronage of pregnant women and patients with chronic diseases,
- monitoring of patients in a distributed home hospital,
- supervising mobile patients with personal life support equipment.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Telemedicine" is aimed at the development of the following competences /competences in part: GPC-13

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-13	GPC-13. Being able to understand the operation principles of modern IT and use them to solve the professional tasks	GPC-13.1. Using information technology in professional activity and observing the information security rules. Information and communication media and technology in professional activity.
		GPC-13.2. Observing the information security rules in professional activity.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/<u>variable</u>/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*
CDC 10		Medical informatics, Obstetrics and	OVP
GPC-10	operation principles of		OVP
	modern IT and use	Therapy, Surgery,	

them	to	solve	Public	health	and	
profession	nal task	S	healthca	are,]	Health	
			Econon	nics		

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Telemedicine" is 1 credit (36 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	Semesters/training modules			
	hours	12				
Contact academic hours		32	32			
including:		-	-	-	-	
Lectures (LC)		-	-	-	-	-
Lab work (LW)		32	32			
Seminars (workshops/tutorials) (S)						
Self-studies	4	4				
Evaluation and assessment (exam/passir						
grade)						
Course workload	academic hours_	72	72			
	credits	1	1			

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities type

Course module title	Course module contents (topics)	Academic activities types
Section 1 Introduction to telemedicine	Topic 1.1 Basic term. the goals of telemedicine today	S
	Topic 1.2 The telemedicine as a new form of healthcare organization	S
Section 2 technological equipment of telemedicine activities.	Topic 2.1 Practical experience of leading telemedicine centers.	S
	Topic 2.2 An encoding and decoding information standards	S
Section 3 scenarios of telemedicine activities	Topic 3.1 Ethical and deontological aspects of telemedicine	S
		S

3.2	Topic
Ha	3.2 Ha icine

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Table 6.1. Classroom equipment and technology support requirements							
Type of		Specialised educational /					
academic	Classroom equipment	laboratory equipment, software,					
activities	7	and materials for course study					
activities		(if necessary)					
Lecture	An auditorium for lecture-type classes,	Hardware and software:					
	equipped with a set of specialized	Videoconferencing complex.					
	furniture; board (screen) and technical	Collaborate Pro900					
	means of multimedia presentations.	communications; Notebook Asus					
	1	K756UJ90NB0A21M00890;					
		Eaton 9130RM 1500BA					
		uninterruptible power supply;					
		LCD monitors ASUS VX279H					
		Black; professional A3 scanner					
		for graphics Microtek ScanMaker					
		9800XL; Document camera on a					
		1					
		platform with a built-in light					
		tablet AVerVision PL50; D-Link					
		DCS-2230 Wireless Full HD					
		Night Camera; ASUS RT-N66U					
		802.11n router; Tablet Apple iPad					
		Air 2; NEC MultiSync E425 LCD					
		Panel + Kromax TV Wall Mount;					
		Acoustic system included					
		(ceiling-mounted acoustic system					
		LS6CT-5.					
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 conducting seminar-						
Schillar	type classes, group and individual						
	1 7 2						
	consultations, current control and						
	intermediate certification, equipped with						
	a set of specialized furniture and						
	technical means for multimedia						
C	presentations.	II I M 11 1 A					
Computer lab	A computer class for conducting	Hardware Monoblock Acer					
	classes, group and individual	Aspire C24-865 (UV-					
	consultations, current control and	00000000006520-6534);					
	intermediate certification, equipped with	Multimedia projector Epson EB-					
	personal computers (in the amount of	965H; SMART Board SBM685					
	15), a board (screen) and technical	interactive whiteboard					
	means of multimedia presentations.						

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams, Skype)

7. RECOMMENDED SOURSES for COURSE STUDIES

Main readings:

- 1. V.Stolyar, M.Amcheslavskaya, V.Fedorov Remote interactive training for doctors based on video conference solutions: 20-years experience Proc. 9 IEEE International conference on Ubi-Media Computing Moscow, p.360-362, ISBN 978-5-88835-045-4. 2016
- 2. Stolyar V.L. Amcheslavskaya Textbook "Telemedicine: tasks, technologies, prospects" Moscow RUDN University 2020
- 3. Stolyar V.L. Amcheslavskaya Tutorial "Lecture course on the basics of telemedicine" Moscow 96 with RUDN University 2017
- 4. Amcheslavskaya M.A. Stolyar V.L. Educational and methodological manual "Methodological recommendations for conducting a video consultation" Moscow 7 with RUDN University 2017

Addititonal readings:

- 1. Amcheslavskaya M.A. Stolyar V.L. Arctic telemedicine Materials of the II International scientific and practical conference "Distance training of doctors based on video conferencing" pp. 6-11 Naryan-Mar, Nenets Autonomous Okrug, Russian Federation 2016 2. Stolyar V.L. Telemedicine network in the healthcare system of Russian Railways. Medical science and practice. No. 1, 2008. P. 56.
- 3. Fedorov V.F., Stolyar V.L. Problems of Russian telemedicine and ways to solve them (brief expert assessment). Physician and Information Technologies, No. 5, 2008, pp. 43-51.
- 4. Selkov A.I., Stolyar V.L., Atkov O.Yu., Selkova E.A., Chueva N.V. Experience in creating a teleconsultation network in remote regions of Russia and the concept of developing e-diagnostic centers in medical institutions in small towns and villages. In: International conference Fundamental Space Research Recent development in Geoecology Monitoring of the Black Sea Area and their Prospects. Conference Proceedings/Editor Malina Jordanova. Sunny Beach, Bulgaria, September 22-27, 2008. ISBN 978-954-322-316-9. p.p. 316 319.

Resources of the information and telecommunications network "Internet":

- 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
- ELS "Student Consultant" www.studentlibrary.ru

- EBS "Lan" http://e.lanbook.com/
- -Telecommunication educational and information system http://esystem.rudn.ru/
- 2. Databases and search engines:
- Yandex search engine https://www.yandex.ru/
- Google search engine https://www.google.ru/
- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/
- -WHO documentation center http://whodc.mednet.ru/

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

- 1. The set of lectures on the course "Telemedicine"
- 2. The laboratory workshop (if any).on the course "Telemedicine"
- 3. The guidelines for writing a course paper / project (if any) on the course "Telemedicine".
- * 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-13) 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:

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