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Информация о владельце:

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Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18a

Дата подписания: 19.05.2023 16:30:35 **PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA RUDN University**

Agrarian and Technological Institute

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

COURSE SYLLABUS

Computer science course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

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

36.05.01 Veterinary

higher education programme profile/specialisation title

1. GOALS AND OBJECTIVES OF THE COURSE

The aim of mastering the course "Computer science" is the formation and development of competencies aimed at using modern computer technologies, familiarizing students with the basics of modern information technologies, their development trends, teaching students the principles of building information models, analyzing the results obtained, using modern information technologies.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Computer science**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competencies formed by students during the development of the course (results of the development of the course)

Competence	Competence descriptor	Indicators of competence
code		accomplishment (within the course)
	Is able to critically analyze	GC-1.3 Searches for information to
~~.	problem situations based on a	solve a given problem using various
GC-1	systematic approach, to	types of queries;
	develop a strategy of action	
	The ability to search for the	GC-12.2 Evaluates information, its
	right sources of information	reliability, builds logical conclusions on
	and data, to perceive, analyze,	the basis of incoming information and
	remember and transmit	data.
	information using digital	
	tools, as well as using	
	algorithms when working	
GC-12	with data obtained from	
	various sources to effectively	
	use the information to solve	
	problems; to assess	
	information, its reliability, to	
	build logical conclusions on	
	the basis of incoming	
	information and data.	
	Is able to understand the	GPC-7.1 Understands the principles of
	principles of modern	modern computer technology and
GPC-7	information technologies and	telecommunications and is able to use
	use them to solve problems of	them to solve professional problems
	professional activity	

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "Computer science" refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other courses and /or practices that contribute to achieving the planned results of mastering the course "**Computer science**".

Table 3.1. List of Higher Education Program components courses that contribute to expected learning outcomes

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GC-1	Is able to critically analyze problem situations based on a systematic approach, to develop a strategy of action		Maths Interdisciplinary module Study practice Preparation for and passing the state exam
GC-12	The ability to search for the right sources of information and data, to perceive, analyze, remember and transmit information using digital tools, as well as using algorithms when working with data obtained from various sources to effectively use the information to solve problems; to assess information, its reliability, to build logical conclusions on the basis of incoming information and data.		Biometrics in veterinary medicine Study practice Preparation for and passing the state exam
GPC-7	Is able to understand the principles of modern information technologies and use them to solve problems of professional activity		Study practice Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Computer science" is 2 credits.

Table 4.1. Types of academic activities during the period of the HE program

mastering for **full-time** study

Types of academic activities		HOURS	Semesters			
			2	-	-	-
Contact academic hours		54	54	-	-	-
including						
Lectures	18	18	-	-	-	
Lab work	36	36	-	-	-	
Seminars (workshops/tutorials)	-	-	-	-	-	
Self-study	8	8	-	-	-	
Evaluation and assessment (exam/pass/fail		10	10	-	-	-
grading)						
	Academic	72	72	-	-	-
Course workload	hour					
	Credit unit	2	2	-	-	_

5. COURSE CONTENTS

Table 5.1 Content of the course (module) by type of academic work

Modules	Content of the modules (topics)	Types of	
		academic	
		activities	
Module 1. Office365	Topic 1.1. Service architecture, General	Lectures, Lab	
corporate service	settings, Access policies	work.	
	Outlook, Calendar, Users		
	OneDrive, Teams		
Module 2. Microsoft	Topic 2.1. General settings	Lectures, Lab	
Word 2016 text editor	Typing rules	work.	
	Page Setup		
	Paragraph formatting		
	Bullets, lists, and numbers		
	Graphic Objects		
	Tables		
	Patch and annotations		
	Templates		
	Styles, Headings, Table of contents		
	References		
	Document Merging		
Module 3. Microsoft	Topic 3.1. General Information	Lectures, Lab	
Excel 2016 spreadsheet	Cell format	work.	
processor	Addressing		
	Formulas and functions		
	Diagrams		
	Sorting		
	Filters		
	Summary tables		
	Connecting to External Sources		

Module 4.	Microsoft	Topic 4.1. General Information	Lectures,	Lab
PowerPoint	2016	Slide options	work.	
Presentation	Preparation	Images		
Software		SmartArt		
		Tables		
		Animations		
		Recommendations		

6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the course

Classroom for Academic Activity Type	Equipping the classroom	Specialized educational/laboratory equipment, software and materials for the development of the course (if necessary)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	-
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	-
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 an electronic information and educational environment.	-

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main readings:

- 1. Isaac, M.P. Calculations, graphs and data analysis in Excel 2010. Samouchetel / M.P. Isaak. SPb.: Science and Technology, 2013. 352 c.
- 2. Bill Jelen, Michael Alexander. Summary tables in Microsoft Excel 2013. Williams Publishers, 2017.-448 p.
- 3. Kozlov, A. Yu. Statistical data analysis in MS Excel: Tutorial / A.Yu. Kozlov, V.S. Mkhitaryan, V.F. Shishov. M.: INFRA-M, 2013. 320 c.
- 4. Konrad Karlberg. Business analysis using Excel. Williams Publishers, 2015.- 576 p.
- 5. Mirkin B.G. Introduction to data analysis: Textbook and workshop / B.G. Mirkin. Lyubertsy: Yurait, 2016. 174 c.
- 6. Kuleshova O.V., Microsoft Excel 2010. Extended possibilities. The solution of practical tasks. Computer Training Center "Specialist", 2012.

Additional Readings:

- 1. Goryainova E.R. Applied methods of statistical data analysis: Textbook / E.R. Goryainova, A.R. Pankov, E.N. Platonov. MOSCOW: GU HSE INSTITUTE. 2012. 310 c.
- 2. Leskovets, Y. Leskovets, A. Rajaraman. M.: DMC, 2016. 498 c.
- 3. Tyurin Y.N. Data Analysis on the Computer: Tutorial / Y.N. Tyurin, A.A. Makarov; Ed. by V.E. Figurnov. MOSCOW: ID FORUM, 2013. 368 c.

Internet sources

- 1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:
 - RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
 - EL "University Library Online" http://www.biblioclub.ru
 - EL "Yurayt" http://www.biblio-online.ru
 - EL "Student Consultant" www.studentlibrary.ru
 - EL "Lan" http://e.lanbook.com/
 - EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-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 work of students during the development of the course/ module*:

- 1. A course of lectures on the course "Computer science".
- 2. Laboratory workshop on the course " **Computer science** ".
- * The training toolkit and guidelines for the internship are placed on the internship 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 AS COURSE RESULTS

The assessment toolkit and the grading system* to evaluate the level of competences (competences in part) formation as the course results 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:

Assistant of the Department of Information Technologies
in Continuing Education

Position, Basic curriculum

Lapshenkova Yu.E..

Full name.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Information Technology in Continuing Education

Name Basic Curriculum Shevtsov V.V. Full name. Signature **HEAD OF EDUCATIONAL DEPARTMENT:** Director of the Department of Veterinary Medicine
Position, Basic curriculum Vatnikov Yu.A.

Signature