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Информация о владельце:
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Должность: Ректор
Дата подписания: 21.05.2025 17:51:47
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

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

Higher School of Management

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

COURSE SYLLABUS

Enterprise Management Information System

course title

Recommended by the Didactic Council for the Education Field of:

38.04.02 Management

field of studies / speciality code and title

The study of the discipline is conducted as part of the professional program of higher education.

Engineering Management

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of mastering the *Enterprise Management Information System* discipline to build and develop the future managers' theoretical knowledge and practical skills for the optimal organization of information processes, the use of information technologies and information systems in legal activities.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The mastering of the *Enterprise Management Information System* discipline envisages building the following competencies (parts of competencies) in students:

Table 2.1. The list of competencies acquired by students in the course of the discipline (outcomes of the discipline)

Competence Code	Competence Descriptor	Competence Formation Indicators (within this discipline)
GC-1	Ability to perform critical analysis of problematic situations based on the systemic approach and to develop a plan of action	GC-1.1 Analyzes the task and singles out its basic components GC-1.2 Defines and prioritizes the information needed to solve the task GC-1.3 Searches the information to solve the task by various types of queries GC-1.4 Offers solutions to the problem, analyzes the possible consequences of their use GC-1.5 Analyzes the ways of solving problems of worldview, moral and personal nature based on the use of fundamental philosophical ideas and categories in their historical development and socio-cultural context
GC-2	Ability to manage a project at all lifecycle stages	GC-2.1 Specifies a problem, the solution of which is linked to the achievement of the project goal GC-2.2 Defines the links between the tasks set and the expected outcomes of their solution GC-2.3 Determines the available resources and limits, the valid legal norms within the framework of the tasks GC-2.4 Analyzes the project implementation schedule and chooses the best way to solve the tasks, based on the current legal norms and available resources and limitations GC-2.5 Monitors the progress of the project, adjusts the schedule in accordance with the results of the control
PC-3	Ability to manage organizations, departments, groups (teams) of employees, projects and networks	PC-3.1 Applies various organization management techniques existing in Russia and abroad PC-3.2. Uses generally accepted standards for effective interaction within the organization

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The *Enterprise Management Information System* is an elective block formed by students.

Within the higher education program students also take other disciplines and / or internships that contribute to the achievement of the expected learning outcomes as results of mastering the "*Enterprise Management Information System*" program.

Table 3.1. The list of the higher education program components that contribute to the achievement of the expected learning outcomes as the disciplines results.

Competence Code	Competence Descriptor	Previous Disciplines/Modules, Practices*	Subsequent Disciplines/Modules, Practices*
GC-1	Ability to perform critical analysis of problematic situations based on the systemic approach and to develop a plan of action	Economics and Management of Energy & Environment Engineering Innovations	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis
GC-2	Ability to manage a project at all lifecycle stages	Strategic Management in Industrial Companies	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis
PC-3	Capability to manage the efficiency of an investment project	Marketing and Competitiveness Management	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline is 3 credits.

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	4
<i>Contact academic hours</i>		36			36	
including:						
Lectures (LC)		18			18	
Lab work (LW)						
Seminars (workshops/tutorials) (S)		18			18	
<i>Self-studies</i>		63			63	
<i>Evaluation and assessment (exam/passing/failing grade)</i>		9			9	
Course workload	academic hours_	108			108	
	credits	3			3	

5. COURSE CONTENTS

Table 5.1. The content of the discipline (module) by type of academic work

No	Name of the Discipline Section	Content of the Section (topics)	Type of Educational Work
1.	Section 1: Introduction to the Methodology of Designing and Working with Information Systems.	General definitions. Set theory and logical operations in information systems. Data bases. Creating queries.	LC, S

2.	Designing and Creating Databases.	Creating Data Bases. Creation of the "Firm" database. Data selection using queries. Using forms in database. Drafting reports.	LC, S
3.	Information Technologies in Professional Activity.	Modern computer technologies in management. Office applications for effective optimization of manager's work. Calculations and special functions in Excel. Electronic document flow.	LC, S

6. EQUIPMENT AND TECHNOLOGICAL SUPPORT OF THE DISCIPLINE

Table 6.1. Equipment and technological support of the discipline

Classroom Type	Equipment of the Classroom	Specialized Educational/Laboratory Equipment, Software and Materials for the Discipline (if necessary)
Lecture Hall	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	21 workplaces: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector
Colloquium	A classroom for conducting colloquium-type classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with a set of specialized furniture and multimedia presentation equipment.	21 workplace: Celeron system unit/2600 MHz/1280 MB/ 40 GB/DVD ROM/ LCD monitor 17"+ 1 projector + WiFi access point
Computer Class	A computer classroom for conducting classes, group and individual consultations, continuous control and midterm assessment, equipped with personal computers (___ pcs.), a blackboard (screen) and multimedia presentation technical means.	21 workplace: Celeron system unit/2600 MHz/1280 MB/ 40 GB/DVD ROM/ LCD monitor 17"+ 1 projector + WiFi access point
Autonomous Work of Students	A classroom for autonomous work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIEE.	21 workplaces: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector

7. INFRASTRUCTURE AND INFORMATIONAL SUPPORT NECESSARY FOR THE DISCIPLINE

a) Main Readings:

1. *Sovetov, B. Ya. Informazionnye tehnologhii [Information technologies]: textbook for universities / B. Ya. Soviets, V. V. Tsekhanovsky. — 7th ed., reprint. and add. — Moscow : Yurayt Publishing House, 2025. — 327 p. — (Higher education). — ISBN 978-5-534-00048-1. — Text: electronic // EBS Yurayt [website]. — URL: <https://urait.ru/bcode/449939>*

2. *Sovetov, B. Ya. Databases : textbook for universities / B. Ya. Soviets, V. V. Tsekhanovsky, V. D. Chertovskoy. — 3rd ed., reprint. and add. — Moscow : Yurayt Publishing House, 2025. — 420 p. — (Higher education). — ISBN 978-5-534-07217-4. — Text: electronic // EBS Yurayt [website]. — URL: <https://urait.ru/bcode/468635> (accessed: 06/20/2021).*

b) Additional Readings:

1. Anikin P.V. et al. Informazionnye sistemy v ekonomike [Information systems in economics]. – M.: KnoRus, 2008. - 254 p.

2. Badmaev B.G. ConsultantPlus. Moscow: Higher School, 2011.

3. Vendelova M.A., Vertakova Yu.R. Informazionnye tehnologhii upravleniya [Information management technologies]. – Moscow: Yurayt, 2011. - 462 p.
4. Melnikov P.P. Komputernye tehnologhii v ekonomike [Computer technologies in economics]. – M.: KnoRus, 2009. - 224 p.

BiblioRossika An electronic library for students, professors and researchers.
<http://www.bibliorossica.com/individuals.html?ln=ru>

Resources of the Internet information and telecommunication network:

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

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/>

The following training toolkit for the student's autonomous work is envisaged as part of mastering the discipline/module*:

1. A course of lectures on the *Enterprise Management Information System* discipline.
2. Laboratory workshop on the *Enterprise Management Information System* discipline (if laboratory work is available).
3. Methodological guidelines for drafting and formatting the course paper / project on the *Enterprise Management Information System* discipline (if there are ones).

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR COMPETENCES LEVEL EVALUATION

The assessment materials and the grading system* to evaluate the graduate's level of competences (part of competences) formation as the results of the *Enterprise Management Information System* discipline are specified in the Appendix to course syllabus.

DEVELOPERS:

Associate Professor of the
Applied Economics Department

Position, educational department

V.A. Ermakov

Signature

Name, surname

HEAD OF EDUCATIONAL DEPARTMENT:

Deputy Head of the Applied

Economics Department

A.A. Ostrovskaya

Name of the educational department

Signature

Name, surname

Program Manager

Deputy Head of the Applied Economics Department

position, name of the department

signature

A.A. Ostrovskaya
Name, surname

