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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. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
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
PC-4	Capable of organizing and conducting general preventive, targeted, and individual activities to counter the spread of terrorist ideology and neo-Nazi ideas	PC-4.1. Determines the content and forms of preventive work to counter the ideology of terrorism and neo-Nazism in accordance with current regulatory legal acts. PC-4.2. Organizes and conducts preventive activities in educational or social settings in accordance with established requirements and regulatory documents.

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 courses/modules*	Subsequent courses/modules*
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
PC-4	Capable of organizing and conducting general preventive, targeted, and individual activities to counter the spread of terrorist ideology and neo-Nazi ideas	-	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 educational work according to the periods of mastering the higher education program for FULL-TIME students

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. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
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
Designing and Creating Databases.	Creating Data Bases. Creation of the "Firm" database. Data selection using queries. Using forms in database. Drafting reports.	LC, S
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. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

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. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main Readings:

1. *Sovetov, B. Ya. Informazionnye tehnologii [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 tehnologii upravleniya [Information management technologies]. — Moscow: Yurayt, 2011. - 462 p.*

4. Melnikov P.P. *Komputernye tehnologii 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 EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

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

V.A. Ermakov

Position, educational department

Signature

Name, surname

HEAD OF EDUCATIONAL DEPARTMENT:

Deputy Head of the Applied

A.A. Ostrovskaya

Economics Department

Name of the educational department

Signature

Name, surname

Program Manager

Deputy Head of the Applied Economics Department

A.A. Ostrovskaya

position, name of the department

signature

Name, surname

Methodological guidelines for students on mastering the discipline (module)

The implementation of the course provides interactive lectures, practical classes (colloquiums) using multimedia equipment, preparation of autonomous creative projects and their subsequent presentations, testing, group discussions on the subject of the course, modern knowledge control technologies.

While studying the discipline, the student must attend a course of lectures, participate in the number of colloquiums provided by the course syllabus, study autonomously some topics of the course and confirm their knowledge during control activities.

The student's work in lectures consists in clarifying the basics of the discipline, briefly taking notes of the material, and clarifying issues that cause difficulties. The lecture notes are the basic educational material along with the textbooks recommended in the main list of readings.

The teaching of the main part of the lecture material involves usage of multimedia tools that facilitate the comprehension and consolidation of the material. Presentations are available for download from the RUDN website and can be freely used by students for educational purposes.

The student must master all the topics provided for by the educational and thematic plan of the discipline. Individual topics and training issues must be mastered autonomously. The student studies the recommended literature, briefly outlines the material, and clarifies the most difficult questions that require clarification during consultations. The same should be done with sections of the course that were skipped due to various circumstances.

For an in-depth study of the issue, the student should study the literature from the additional readings list and specialized websites. It is also recommended that students communicate in professional community forums.

Students study educational, scientific literature and periodicals on an autonomous basis. They have the opportunity to discuss what they have read with the teachers of the discipline during scheduled consultations, with other students at colloquiums, as well as at lectures, asking the professor questions.

The control of autonomous work is carried out by the professor in charge. Depending on the teaching methodology, the following forms of continuous assessment can be used: a short oral or written survey before the start of classes, tests, control papers, written homework, essays, etc.

The assessment toolkit for the midterm assessment of students in the discipline (module) (developed and issued in accordance with the requirements of the " Regulations for the Formation of Assessment Toolkit (FOS)", approved by the Rector's order No. 420 dated 05.05.2016).

The code of the controlled competence or its part	Controlled Discipline Section	Controlled Discipline Topic	Assessment Toolkit (forms of control of mastering the professional program)										Scores Topics	Section Scores	
			Classroom Work					Autonomous Work							
			Survey	Test	Colloquium	Control Paper	Discussion	Essay	Homework	Report	Creative Project	Course Paper / project	Exam/Test		
UC-1, UC-2, PC-3	Раздел 1: Section 1: Introduction to the Methodology of Designing and Working with Information Systems.	Section 1: Introduction to the Methodology of Designing and Working with Information Systems.							10						10
UC-1, UC-2, PC-3	Раздел 2: Section 2: Designing and Creating Databases.	Creating Data Bases.				20			10						30
UC-1, UC-2, PC-3	Section 3: Information Technologies in Professional Activity.	Methods of Solving Experimental Problems in Management.				10			10						20
UC-1, UC-2, PC-3		Report							20						20
UC-1, UC-2, PC-3		Credit with grade										20			20
		TOTAL				30			30	20			20		100

