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Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University

Academy Of Engineering

(educational division (faculty/institute/academy) as program developer)

Department of Innovation Management in Industries

(department realizing the PhD program)

COURSE SYLLABUS

Management in Organizational Systems

(course title)

Scientific specialty:

2.3.4. Management in Organizational Systems

(scientific specialty code and title)

The course instruction is implemented within the PhD program:

Management in Organizational Systems

(PhD program title)

1. DISCIPLINE (MODULE) GOAL

The purpose of mastering the discipline «Management in Organizational Systems» is to acquire knowledge, skills and abilities in conducting research activities, as well as to prepare for candidate exams.

2. REQUIREMENTS TO PHD-STUDENTS ON FINISHING THE COURSE

As a result of mastering the discipline, a graduate student should gain knowledge, skills and abilities in setting and solving scientific problems in the areas of research of the passport of scientific specialization 2.3.4. Management in Organizational Systems.

3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The total labor intensity of the discipline «Management in Organizational Systems» is 4 credits (144 academic hours).

Types of activities		TOTAL	Semester 3
Contact work, ac. hrs.		60	60
including:			
Lectures (LC), ac. hrs.		30	30
Seminar Classes (S), ac. hrs.		30	30
Independent Work of Students (AW), ac. hrs.		48	48
Intermediate certification (exam), ac. hrs.		36	36
Overall workload	ac. hrs.	144	144
	credits	4	4

4. CONTENT OF THE DISCIPLINE

Name of the discipline section	Contents of the section (topic)	Type of study work
Section 1. Mathematical and Instrumental Methods in Economics	Topic 1.1. Modeling as a Method of Scientific Cognition.	LC, S, AW
	Topic 1.2. Econometrics: Basic Concepts, Tools, Time Series Analysis. Fundamentals of Systems Theory and System Analysis.	LC, S, AW
	Topic 1.3. Information and data. Information systems. Design of information systems. Intelligent information systems. Optimization Methods for Solving Economic Problems.	LC, S, AW
Section 2. Statistical Methods in Economics	Topic 2.1. Fundamentals of Economic and Statistical Analysis. A priori analysis and its place in the study of socio-economic phenomena. Multiple correlation and regression analysis. Component analysis. Factor analysis. Cluster analysis. Discriminant Analysis.	LC, S, AW
	Topic 2.2. Applied Statistical Programs in the Analysis of Socio-Economic Processes. Multivariate econometric models. Computer Technologies for Multivariate Statistical Analysis.	LC, S, AW
	Topic 2.3. Technology for preliminary analysis, analytical alignment and forecasting of time series levels. Adaptive Models for Predicting Time Series Levels and Their Implementation in Application Packages.	LC, S, AW

5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture room	Lecture-type classroom equipped with a set of specialized furniture; whiteboard (screen) and technical means of multimedia presentations	no
Seminar room	Auditorium for seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means of multimedia presentations	no
Computer	Computer class for classes, group and individual consultations, current	no

class	control and intermediate certification, equipped with personal computers (in the amount of 25 pcs.), a whiteboard (screen) and technical means of multimedia presentations	
Room for independent work	Classroom for independent work of PhD students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS	no

6. METHODOLOGICAL SUPPORT AND LEARNING MATERIALS

Main readings:

- 1) Passport of a scientific specialty 2.3.4. Management in Organizational Systems.
- 2) Шарапова Т.В. Основы теории управления: учебное пособие для вузов / М.: Юрайт, 2024. 148 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/532338>.
- 3) Бусов В.И., Лябах Н.Н. [и др.], Теория и практика принятия управленческих решений: учебник и практикум для вузов / М.: Юрайт, 2024. 276 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/536205>.
- 4) Набатова Д.С. Математические и инструментальные методы поддержки принятия решений: учебник и практикум для вузов / М.: Юрайт, 2023. 292 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/511200>.

Additional readings:

- 1) Подиновский В.В. Многокритериальные задачи принятия решений: теория и методы анализа: учебник для вузов / М.: Юрайт, 2024. 486 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/544714>.
- 2) Тавасиевой З.Р., Тогужовой И.З., Гуриевой Л.К. Управление социально-экономическими системами: учебное пособие для вузов / М.: Юрайт, 2024. 137 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/542612>.
- 3) Кравченко Т.К., Исаев Д.В. Системы поддержки принятия решений: учебник и практикум для вузов / 2-е изд., перераб. и доп. М.: Юрайт, 2024. 327 с. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/508087>.
- 4) Светульников И.С., Светульников С.Г. Методы социально-экономического прогнозирования в 2 т. Т. 1 Теория и методология: учебник и практикум для вузов / М.: Издательство Юрайт, 2022. 351 с. ISBN 978-5-534-02801-0. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/469228>.
- 5) Подиновский В.В. Многокритериальные задачи принятия решений: теория и методы анализа: учебник для вузов / М.: Издательство Юрайт, 2024. 486 с. ISBN 978-5-534-15673-7. Образовательная платформа Юрайт [сайт]. URL: <https://urait.ru/bcode/544714>.

Internet sources:

Electronic Library Systems (ELS) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- ELS of RUDN University <http://lib.rudn.ru/MegaPro/Web>;
- ELS University Library Online <http://www.biblioclub.ru>;
- EBS Urayt <http://www.biblio-online.ru>;
- ELS Student Consultant <http://www.studentlibrary.ru>;
- EBS Lan <http://e.lanbook.com>;
- EBS Trinity Bridge <http://www.trmost.ru>.

Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search system [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search system <https://www.google.ru/>
- Scopus reference database <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for students' self-work studying the discipline / module:
A course of lectures on the discipline «Management in Organizational Systems».

7. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR MIDTERM ATTESTATION OF STUDENTS IN THE DISCIPLINE (MODULE)

Evaluation materials and a point-rating system for assessing the mastery of the discipline are presented on the TUIS platform.

DEVELOPER:

Head of Department of Innovation Management
in Industries

position, educational department

signature

O.E. Samusenko
name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

Head of Department of Innovation Management
in Industries

educational department

signature

O.E. Samusenko
name and surname