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ФИО: Ястребов Олег Александрович
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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

Modern Strategic Analysis

course title

Recommended by the Didactic Council for the Education Field of:

38.04.02 Management

(field of studies / speciality code and title)

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

Engineering Management

(name (track/specialization) of professional program of higher education)

1. COURSE GOAL(s)

Possible wording

The goal of mastering the *Modern Strategic Analysis* discipline to build in students systematic mindset, theoretical and practical basis of system research in the analysis of problems and decision-making in a professional activity.

2. REQUIREMENTS FOR DISCIPLINE OUTCOMES

Possible wording

The mastering of the *Modern Strategic Analysis* 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
GPC-1.	Capability to solve professional tasks based on knowledge (at an advanced level) of economic, organizational and managerial theory, innovative approaches, generalization and critical analysis of management practices.	GPC-1.1 Has fundamental knowledge in management GPC-1.2 Can apply the fundamental knowledge of economic, organizational and managerial theory for the successful work GPC-1.3 Applies innovative approaches to solve management tasks, considering the generalization and critical analysis of best management practices GPC-1.4 Has the skills of an informed choice of methods for solving practical and research problems
GPC-2.	Capability to apply modern techniques and methods of data collection, advanced methods of their processing and analysis, including the use of smart information and analytical systems, in order to solve management and research tasks.	GPC-2.1 Masters modern techniques and methods of data collection, search, processing, analysis and evaluation of information for management problems solving GPC-2.2 Analyzes and simulates management processes in order to optimize the organization's activities GPC-2.3 Uses modern digital systems and methods in solving management and research problems solving
GPC-3.	Capability to make reasonable organizational and managerial decisions	GPC-3.1 Masters the methods of making the best possible management decisions in a dynamic business environment

Competence Code	Competence Descriptor	Competence Formation Indicators (within this discipline)
	independently, evaluate their operational and organizational efficiency, and social significance, ensure their implementation in terms of a complex (cross-cultural) and dynamic environment.	GPC-3.2 Makes reasonable organizational and managerial decisions GPC-3.3 Evaluates the operational and organizational efficiency and social significance of organizational and managerial decisions GPC-3.4 Ensures the implementation of organizational and managerial decisions in a complex (cross-cultural) and dynamic environment
		PC-1.3. Master: - ways to form efficient business communications;

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The *Modern Strategic Analysis* is a mandatory block formed by students of the B1 unit of the higher education program.

Students also master other disciplines and/or practices that contribute to achieving the planned results of mastering the *Modern Strategic Analysis* discipline.

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 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	Managerial Economics Methodology of Management Problems Research	Accounting in Engineering Management Master's Degree R&D Pre-graduation Practice
GPC-1.	Capability to solve professional tasks based on knowledge (at an advanced level) of economic, organizational and managerial theory, innovative approaches, generalization and critical analysis of management practices.	Managerial Economics Management Organization Theory	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis
GPC-2.	Capability to apply modern techniques and methods of data collection, advanced methods of their processing and	Modern Strategic Analysis	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis

	analysis, including the use of smart information and analytical systems, in order to solve management and research tasks.		
GPC-3.	Capability to make reasonable organizational and managerial decisions independently, evaluate their operational and organizational efficiency, and social significance, ensure their implementation in terms of a complex (cross-cultural) and dynamic environment.	Managerial Economics	Agile Project Management Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

Possible wording

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 Educational Work	TOTAL, academic hours.	Semester(s)			
		1	2	3	4
<i>Contact Work, academic hours.</i>	54		36		
Lectures (LC)	18		18		
Laboratory Work (LR)					
Practical/seminar classes (PC)	36		18		
<i>Autonomous Work of students, academic hours.</i>	27		54		
<i>Control (exam /graded credit), academic hours.</i>	27		18		
Total Workload of the Discipline	academic hours	108	108		
	credits	3	3		

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Name of the sections (subjects) of the discipline	Summary of the sections (subjects) of the discipline:	Type of Educational Work
Section 1. General information from the theory of systems. The concept of a system	Subject 1. Introduction to Systems Theory and System Analysis System concepts in practical activities	Lecture, self study

<p>approach and system analysis</p>	<p>Evolution of system representations. General definition of the system. Examples of systems. A brief description of the system. General properties of systems. Classification of systems. Ashby's Law of Requisite Variety. Signs of the system. Classification of systems. Types of system topology. The emergence of system analysis. The concept of a systematic approach. General System Theory (theory of systems) by Ludwig von Bertalanffy. Isomorphism of the laws governing the functioning of systems is the main idea of the General System Theory proposed by Bertalanffy.</p>	
	<p>Subject 2. General Patterns of Technical Systems Development</p> <p>Types of technical systems. Minimal technical system. The law of increasing the degree of the system ideality. The law of S-shaped development of technical systems. The law of dynamization. The law of completeness of the system parts. The law of the through passage of energy. The law of advanced development of the working body. The law of "mono — bi — poly" transition. The law of transition from the macro to the micro level.</p>	<p>Lecture, self study</p>
<p>Section 2. Description and modeling of systems. Typical tasks of system analysis and methods of their solution</p>	<p>Subject 3. Systems Description. Typical Tasks of System Analysis. The Concept of the System Model.</p> <p>Concepts of system analysis necessary to describe systems. Classifications of challenges – objects of system analysis:</p> <ul style="list-style-type: none"> - well structured; - unstructured; - poorly structured. <p>Classical formulation and formalization of the problem in</p>	<p>Lecture, self study</p>

	<p>applied system analysis. The criterion of the problem solution quality. An indicator of the problem solution quality.</p> <p>Internal and external description of systems</p> <p>Definition of the model.</p> <p>Classification of modeling methods</p> <p>Model Requirements</p>	
	<p>Subject 4. Fundamentals of the Theory of Choice and Decision-Making. Analytical Hierarchical Decision-making Process (ANR) by T.Saati</p> <p>Choice as the realization of the systems purpose.</p> <p>Criterion language of choice description</p> <p>Formulation of optimization problems and their classification.</p> <p>Fundamentals of the analytical hierarchical process</p> <p>The ANR three main functions</p> <p>Axioms of ANR</p>	Lecture, self study
	<p>Subject 5. Conditional Optimization. Mathematical Programming</p> <p>Example of setting an optimization challenge</p> <p>Linear Programming (LP). Geometric method. The Symplex method</p> <p>Methods to solve nonlinear software problems. Geometric interpretation</p> <p>Nonlinear programming</p>	Lecture, self study
	<p>Subject 6. Choosing Alternatives in Multi-Criteria Tasks</p> <p>Reducing a multi-criteria task to a single-criteria one</p> <p>Conditional maximization</p> <p>Search for an alternative with the specified properties</p> <p>Finding the Pareto set</p>	Lecture, self study

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

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.	no
Laboratory	A classroom for laboratory work, individual consultations, continuous control and midterm certification, equipped with a set of specialized furniture and equipment.	no
Colloquium	A classroom for conducting colloquium-type classes, group and individual consultations, continuous control and midterm certification, equipped with a set of specialized furniture and multimedia presentation equipment.	no
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.	no
Autonomous Work of Students	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIEE.	419

* - the room for autonomous work of students **MUST BE** indicated!

Electronic educational materials used in the teaching process, multimedia presentations, a bank of test tasks, etc. are provided on the Web-local portal.

The following equipment is used for conducting classes:

- classroom whiteboard – 1 pc.;
- multimedia projector – 1 pc.;
- screen – 1 pc.;
- personal computers (laptops, tablets) for practical training.

Description of the classrooms where classes are held

No	Actual address of classrooms and facilities	List of main equipment
1.	Miklukho-Maklay st., 6, room 419	multimedia projector, screen, classroom whiteboard

7. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main Readings:

1. Kazakova, N. A. Sovremenny strategichesky analiz [Modern strategic analysis]: textbook and workshop for universities / N. A. Kazakova. — 3rd ed., reprint. and add. — Moscow : Yurayt Publishing House, 2023. - 469 p. — (Higher education). — ISBN 978-5-534-11138-5. — Text : electronic // Yurayt Educational Platform [website]. — URL: <https://urait.ru/bcode/511185>

2. Otvarukhina, N. S. Sovremenny strategicheskyy analiz [Modern strategic analysis] : textbook and workshop for universities / N. S. Otvarukhina, V. R. Vesnin. — Moscow : Yurayt Publishing House, 2023. - 463 p. — (Higher education). — ISBN 978-5-534-14975-3. — Text : electronic // Yurayt Educational Platform [website]. — URL: <https://urait.ru/bcode/511127>

b) Additional Readings:

3. Belov, P. G. Upravlenie riskami, sistemny analiz i modelirovanie za 3 chasa [Risk management, system analysis and modeling in 3 hours]. Part 1 : textbook and workshop for universities / P. G. Belov. — Moscow : Yurayt Publishing House, 2023. — 211 p. — (Higher education). — ISBN 978-5-534-02606-1. — Text : electronic // Yurayt Educational Platform [website]. — URL: <https://urait.ru/bcode/512634>

4. Belov, P. G. Upravlenie riskami, sistemny analiz i modelirovanie za 3 chasa [Risk management, system analysis and modeling in 3 hours]. Part 2 : textbook and workshop for universities / P. G. Belov. — Moscow : Yurayt Publishing House, 2023. — 250 p. — (Higher education). — ISBN 978-5-534-02608-5. — Text : electronic // Yurayt Educational Platform [website]. — URL: <https://urait.ru/bcode/512635>.

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 **Modern Strategic Analysis** discipline are specified in the Appendix to course syllabus.

* - The assessment materials and the grading system are formed on the basis of the requirements of the relevant local regulation of RUDN University.

95-100	Excellent A
86-94	Excellent B
69-85	Good C
61-68	Satisfactory D
51-60	Satisfactory E
31-50	Conditionally unsatisfactory FX
0-30	Unsatisfactory F

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

Name of the educational department

A.A. Ostrovskaya

Signature

Name, surname

Program Manager

Deputy Head of the Applied

Economics Department

position, name of the department

A.A. Ostrovskaya

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.

GPC-1, GPC-2, GPC-3	Making. Analytical Hierarchical Decision-making Process (ANR) by T.Saati	Criterion language of choice description												
		Formulation of optimization problems and their classification. Fundamentals of the analytical hierarchical process The ANR three main functions Axioms of ANR	2										2	
GC-1 GPC-1, GPC-2, GPC-3	Subject 5. Conditional Optimization. Mathematical Programming	Example of setting an optimization challenge Linear Programming (LP). Geometric method. The Symplex method					2						2	4
		Methods to solve nonlinear software problems. Geometric interpretation Nonlinear programming					2						2	
GC-1 GPC-1, GPC-2, GPC-3	Subject 6. Choosing Alternatives in Multi-Criteria Tasks	Reducing a multi-criteria task to a single-criteria one					2						2	10
		Conditional maximization Search for an alternative with the specified properties					6						6	
		Finding the Pareto set					2						2	
GC-1 GPC-1, GPC-2,		Milestone Certification (Control Paper)					20							20

GPC-3															
GC-1 GPC-1, GPC-2, GPC-3		Exam											30		30
		TOTAL	25	10		20	10		15	10			30		100

