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Информация о владе Tederal State Autonomous Educational Institution for Higher Education

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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
Code		(within this discipline) 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
	Ability to perform critical	Searches the information to solve the task by various
	analysis of problematic	types of queries
GC-1	situations based on the	GC-1.4
	systemic approach and to	Offers solutions to the problem, analyzes the possible
	develop a plan of action	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
	Capability to solve	GPC-1.1 Has fundamental knowledge in
	professional tasks based on	management
	knowledge (at an advanced	GPC-1.2 Can apply the fundamental knowledge of
	level) of economic,	economic, organizational and managerial theory for
GPC-1.	organizational and	the successful work
GFC-1.	managerial theory,	GPC-1.3 Applies innovative approaches to solve
	innovative approaches,	management tasks, considering the generalization
	generalization and critical	and critical analysis of best management practices
	analysis of management	GPC-1.4 Has the skills of an informed choice of
	practices.	methods for solving practical and research problems
	Capability to apply modern	GPC-2.1 Masters modern techniques and methods
	techniques and methods of	of data collection, search, processing, analysis and
	data collection, advanced	evaluation of information for management problems
CDC 4	methods of their processing	solving
GPC-2.	and analysis, including the	GPC-2.2 Analyzes and simulates management
	use of smart information	processes in order to optimize the organization's
	and analytical systems, in	activities
	order to solve management	GPC-2.3 Uses modern digital systems and methods in
	and research tasks.	solving management and research problems solving
CDC 2	Capability to make	GPC-3.1 Masters the methods of making the best
GPC-3.	reasonable organizational	possible management decisions in a dynamic business environment
	and managerial decisions	OUSINGSS CHVITOHIICHT

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

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

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,		Semes	ster(s)	
		academic hours.	1	2	3	4
Contact Work, academic hours.		54		36		
Lectures (LC)		18		18		
Laboratory Work (LR)						
Practical/seminar classes (PC)		36		18		
Autonomous Work of students, academic hours.		27		54		
Control (exam/graded credit), academic hours.		27		18		
	academic	108		108		
Total Workload of the Discipline	hours	100		100		
_	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	Subject 1. Introduction to	Lecture, self study
information from the	Systems Theory and System	
theory of systems. The	Analysis	
concept of a system	System concepts in practical	
	activities	

approach and system	Evolution of system	
analysis	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.	
	Subject 2. General Patterns	Lecture, self study
	of Technical Systems	Becture, sen study
	Development	
	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.	
Section 2. Description	Subject 3. Systems	Lecture, self study
and modeling of	Description. Typical Tasks of	Lecture, seri study
systems. Typical tasks	System Analysis. The Concept	
of system analysis and	of the System Model.	
methods of their	Concepts of system analysis	
solution	necessary to describe systems.	
Solution	Classifications of challenges –	
	objects of system analysis:	
	- well structured;	
	- wen structured; - unstructured;	
	- poorly structured.	
	Classical formulation and	
	formalization of the problem in	
1	TOTHIANZAUON OF THE PRODUCIN III	

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applied system analysis. The	
criterion of the problem solution	
quality. An indicator of the	
problem solution quality.	
Internal and external	
description of systems	
Definition of the model.	
Classification of modeling	
methods	
Model Requirements	
	16 4 1
Subject 4. Fundamentals of	Lecture, self study
the Theory of Choice and	
Decision-Making. Analytical	
Hierarchical Decision-making	
Process (ANR) by T.Saati	
Choice as the realization of	
the systems purpose.	
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	
Subject 5. Conditional	Lecture, self study
Optimization. Mathematical	,
Programming	
Example of setting an	
optimization challenge	
Linear Programming (LP).	
Geometric method. The Symplex	
method	
Methods to solve nonlinear	
software problems. Geometric	
interpretation	
Nonlinear programming	
Subject 6. Choosing	Lecture, self study
Alternatives in Multi-Criteria	, , , , , , , , , , , , , , , , , , ,
Tasks	
Reducing a multi-criteria task	
to a single-criteria one	
Conditional maximization	
Search for an alternative with	
the specified properties	
Finding the Pareto set	
Hinding the Pareto cet	

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	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 <u>MUST BE</u> 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

	Description of the	Classicollis Where Classes are note
No	Actual address of	List of main equipment
	classrooms and facilities	
1.	Miklukho-Maklay st., 6,	multimedia projector, screen, classroom whiteboard
	room 419	

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 strategichesky 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 0-30	Conditionally unsatisfactory FX Unsatisfactory F

DEVELOPERS:

position, name of the department

Associate Professor of the Applied Economics Department		V.A. Ermakov	
Position, educational department	Signature	Name, surname	
HEAD OF EDUCATIONAL DEPAR Deputy Head of the Applied Economics Department	ETMENT:	A.A. Ostrovskaya	
Name of the educational department	Signature	Name, surname	_
Program Manager Deputy Head of the Applied Economics Department	A.A. Ost	trovskaya	

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.

12. The 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).

	Assessment Toolkit (forms of control of mastering the professional program)							ing Score Topic		Section Scores					
_			Classroom Work			Autonomous Work						Topics	Scores		
The code of the controlled competence or its part	Controlled Discipline Section	Controlled Discipline Topic	Survey	Test	Colloquium	Control Paper	Discussion	Essay	Homework	Report	Creative Project	Course Paper / project	Exam/Test		
GC-1 GPC- 1, GPC- 2, GPC- 3	Subject 1. Introduction to Systems Theory and System Analysis	System concepts in practical activities 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.					1							1	8
		Signs of the system. Classification of systems. Types of system topology.					4		2					6	
		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					1							1	

		of the General System Theory proposed by Bertalanffy.								
GC-1 GPC- 1,	Subject 2. General Patterns of Technical Systems Development	Types of technical systems. Minimal technical system.	4						4	
GPC- 2, GPC- 3		The law of increasing the degree of the system ideality. The law of S-shaped development of technical systems. The law of dynamization.				4			4	
		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.	2						2	10
GC-1 GPC- 1, GPC- 2,	Subject 3. Systems Description. Typical Tasks of System Analysis. The Concept of the System Model.	Choice as the realization of the systems purpose. Criterion language of choice description Formulation of optimization problems and their classification. Fundamentals of the analytical				2			2	6
GPC-3		hierarchical process The ANR three main functions Axioms of ANR				4			4	
GC-1	Subject 4. Fundamentals of the Theory of Choice and Decision-	Choice as the realization of the systems purpose.			6	4			10	12

GPC- 1, GPC-	Making. Analytical Hierarchical Decision-making Process (ANR) by T.Saati	Criterion language of choice description								
2, GPC- 3		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-	Subject 5. Conditional Optimization. Mathematical Programming	Example of setting an optimization challenge Linear Programming (LP). Geometric method. The Symplex method			2				2	4
2, GPC- 3		Methods to solve nonlinear software problems. Geometric interpretation Nonlinear programming			2				2	
GC-1 GPC-		Reducing a multi-criteria task to a single-criteria one			2				2	
1, GPC- 2, GPC-	Subject 6. Choosing Alternatives in Multi-Criteria Tasks	Conditional maximization Search for an alternative with the specified properties			6				6	10
3		Finding the Pareto set			2				2	
GC-1 GPC- 1, GPC- 2,		Milestone Certification (Control Paper)		2	0					20

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