



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION
Federal State Budgetary Educational Institution of Higher Education
«KAZAN STATE POWER ENGINEERING UNIVERSITY»
(FSBEI HE «KSPEU»)

APPROVED

Director of the Institute of Digital
Technologies and Economics

_____ Zainullin R.R.

«24» _____ February _____ 2026

WORK PROGRAM FOR THE DISCIPLINE

B1.V.ED.01.01.03 Management decision-making methods

Field of training

38.03.02 Management

Qualification

Bachelor's Degree

Program developed by:

Department name	Position, academic degree, academic title	Full name Developer
Management	Ph.D. in Sociology, Associate Professor	Ibragimova A.A.

Approval	Name of department	Date	Minutes No.	Signature
Approved	Management	10.02.2026	Protocol №5	_____ Head of Department, Doctor of Social Sciences, Professor Makhyanova A.V.
Agreed	Management	10.02.2026	Protocol №5	_____ Head of the Department., Doctor of Social Sciences, prof.Makhyanova A.V.
Agreed	Educational and Methodological Council of IDTE	24.02.2026	Protocol №6	_____ Director, Ph.D., Associate Professor, Zainullin R.R..
Approved	Scientific Council of IDTE	24.02.2026	Protocol №6	_____ Director, Ph.D., Associate Professor, Zainullin R.R.

1. The purpose, tasks and planned results of the of training by discipline

The goal of mastering the discipline «Management Decision Making Methods» is to master the future bachelor's knowledge in the field of management, which determines his rational behavior and direct practical application of this knowledge in your professional activities; studying practical methods that ensure management decision-making.

Tasks disciplines are:

- study the main ones methods acceptance management decisions in conditions of uncertainty and risk;
- study the main ones methods acceptance optimal management decisions under conditions of certainty.

Competencies and indicators, formed u students:

Code and name competencies	Code and name i n d i c a t o r
PC-3 Able to use advanced domestic and foreign experience in the field of organizational management to prepare balanced management decisions, taking into account the influence of the modern socio-economic environment.	PC-3.1 Analyzes advanced domestic and foreign experience in the field of organizational management.

2. Place disciplines in the structure OP

Previous disciplines (modules), practices, research, etc. all disciplines Mandatory parts of the educational plan (except for disciplines «Software and programming in professional activities») and Parts formed by participants in educational relations, educational practice (research work (obtaining primary skills in research work)), industrial practice (technological), industrial practice (design and design) technological).

Subsequent disciplines (modules), practices, NIR, dr. production practice (pre-degree practice).

3. Structure and contents disciplines

3.1. Structure disciplines

For the full-time forms of training

View educational works	Total ZE	Total hours	Semester (s)	
			7	8
GENERAL LABOUR INTENSIVE DISCIPLINES	8	288	144	144
CONTACT WORK	-	112	59	53
CLASSROOM WORK	2.22	80	44	36

Lectures	0.72	26	14	12
Practical (seminar) classes	1.5	54	30	24
Laboratory works	-	0	0	0
INDEPENDENT WORK THE STUDENT	5.78	208	100	108
Elaboration educational material	3.78	136	64	72
Coursework project	-	0	0	0
Coursework work	-	0	0	0
Preparation k intermediate certifications	2	72	36	36
Intermediate attestation:			E	E

For the part-time forms of training

View educational works	Total ZE	Total hours	Semester (s)	
			B	C
GENERAL LABOUR INTENSIVE DISCIPLINES	8	288	108	180
CONTACT WORK	-	136	52	84
CLASSROOM WORK	3.06	110	46	64
Lectures	1.33	48	16	32
Practical (seminar) classes	1.72	62	30	32
Laboratory works	-	0	0	0
INDEPENDENT WORK THE STUDENT	4.94	178	62	116
Elaboration educational material	4.58	165	58	107
Coursework project	-	0	0	0
Coursework work	-	0	0	0
Preparation k intermediate certifications	0.36	13	4	9
Intermediate attestation:			Z	E

3.2. Contents disciplines, structured by sections and types of activities

Sections of discipline	Total hours	Labour intensity distribution by species educational works				Shapes and appearance	Indices indicators formed
		lectures	lab. slave.	ave. zan.	by myself		
						control	competencies
Section 1	108	14		30	64	TK1	PC-3.1.Z, PC-3.1.UH,

							PC-3.1.IN THE
Exam	36				36	OM 1	PC-3.1.Z, PC-3.1.UH, PC-3.1.IN THE
Total for 7 semester	144	14		30	100		
Section 2	108	12		24	72	TK2	PC-3.1.Z, PC-3.1.UH, PC-3.1.IN THE
Exam	36				36	OM 2	PC-3.1.Z, PC-3.1.UH, PC-3.1.IN THE
Total for 8 semester	144	12		24	108		
TOTAL	288	26		54	208		

3.3. Contents disciplines

Section 1. Basic methods of making management decisions in conditions of uncertainty and risk.

Topic 1.1. Making management decisions using matrix game theory

Basic concepts of matrix game theory. Decision criteria under uncertainty (Wald, Savage, Hurwitz, maximal criterion).

Theme 1.2. Making management decisions using queuing systems

Concept and general schema systems massively services (SMO).

The main ones components SMO. The main ones species SMO and their characteristics.

Section 2. Basic methods for making optimal management decisions under conditions of certainty.

Theme 2.1. Making management decisions using linear programming

The essence of the linear programming problem. The challenge of making the best use of resources. Simplex method. Essence and types of transport task. Approaches to solving the transport problem. Potentials method.

Theme 2.2. Making management decisions using integer programming

The essence of the integer programming problem. Branch and boundary method. The essence of the problems of choosing options. The traveling salesman's task. Problem o appointment.

Theme 2.3. Making management decisions using nonlinear programming

The essence of the nonlinear programming problem. Lagrange multiplier method. The task of minimizing production costs.

3.4. Thematic plan practical classes

1. Acceptance management decisions at help theories m a t r i x

gam
es.

2. Acceptance management decisions at help systems massively services.

3. Acceptance management decisions at help linear programming.

4. Acceptance management decisions at help integer programming.

5. Acceptance management decisions at help nonlinear programming.

3.5. Thematic plan laboratory works

Given view works not is provided for educational the plan.

3.6. Coursework project /coursework work

Given view works not is provided for educational the plan.

4. Evaluation of learning outcomes

The assessment of training results in the discipline is carried out within the framework of ongoing control and intermediate certification carried out according to the point-rating system (BRS).

Scale evaluations results of training by discipline:

Completion code	Competence indicator code	Planned results of training by discipline	Level indicator formation competencies			
			Tall	Average	Below average	Low
			85 to 100	from 70 to 84	55 to 69	from 0 to the 54
			Scale assessments			
			great	well	satisfying	bad luck
			credited		not credited	
PC-3 Able to use advanced domestic and foreign experience in the field of organizational management to prepare balanced management decisions,	PC-3.1 Analyzes advanced domestic and foreign experience in the field of organizational management.	know: Results of the analysis of the advanced domestic and foreign experience c areas of management organizations for the purposes of studying methods of acceptance managerial x of the solutions	Level of knowledge the result of the analysis of the leading o fatherland nnogo and abroad wow experience in the field management ai	Level of knowledge the result of the analysis is advanced fatherland nnogo and abroad wow experience in the field management ai organizers	Minimal let's say level of knowledge the result of the analysis was advanced fatherland nnogo and abroad wow experience in areas of the region	Level of knowledge of analysis results advanced fatherland engo and abroad wow experience in areas of management organization

<p>taking into account the influence of the modern socio-economic environment.</p>			<p>organizers</p>			
			<p>for the purposes of studying methods of adopting managerial decisions in volume, corresponding to the program preparation, no mistakes</p>	<p>for the purposes of studying methods of adopting managerial decisions in volume, corresponding programs e prepare ki, has place is not how many minor mistakes</p>	<p>management ai organizers for the purposes of studying methods of adopting managerial decisions, there are many minor mistakes</p>	<p>cions for the purposes of studying methods of adopting managerial solutions below the minimum required yi, take place gross mistakes</p>
<p>be able to:</p>						
		<p>apply the results of advanced analysis domestic and foreign experience c areas of management organizations for the purposes of studying methods of</p>	<p>Prodemonstirov all of them basic skills will be applied result y analysis advanced news about fatherland</p>	<p>Prodemonstirov all of them basic skills will be applied result y analysis advanced fatherland nnogo and abroad</p>	<p>Prodemonstirov all of them basic skills will be applied result y analysis advanced news about fatherland</p>	<p>Not really prodemonstirov all of them the main ones e skills they will apply the results of the</p>

		acceptance managerial x of the solutions	nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions in full volume	wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial solutions not rude and shortcomings of mi	nnogo and abroad wow experience in the field management and organizers of the ai for the purposes of studying methods of adopting managerial decisions, take place minor mistakes	analysis are advanced fatherland engo and abroad wow experience in areas of management organizations for the purposes of studying methods of adopting managerial decisions take place	
						gross mistakes	
		own:					
		advanced terminology domestic and foreign experience c areas of management organizations for the purposes of studying methods of acceptance managerial x of the solutions	Promon is stripped y skills applied ter minologist s and advanced news about fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions	Promon stri-basic skills are provided applied ogyi's terminol advanced fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting manageria	Demonstrated minimal set skills used in terminol ogyi advanced news about fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions	Skills applied to the terminol ogyi advanced fatherland engo and abroad wow experience in areas of management organizations for the purposes of studying methods of adopting managerial there are no solution s prodemo	

			in full measure	l decisions by the organizat ion		nstirov ana
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The evaluation materials for the performance of the ongoing controls and the interim evaluation are given in the Annex to the work programme disciplines.

A complete set of tasks and materials necessary to evaluate the results of training in the discipline is stored at the developer's department.

5. Educational, methodological and information support for the discipline

5.1. Educational and methodological provision of

5.1.1. The main one literature

1. Loginov, V.N. Methods of acceptance management decisions : teaching aid / IN THE. N. Loginov. - M: Knorus, 2019. - 217 with. - URL: <https://book.ru/book/932934>. -ISBN 978-5-406-00931-4. - Text: electronic.

2. Methods of making management decisions: quantitative approach: textbook /V. S. Aliyev, M. S. Elaeva, D. S. Nabatova [et al]; under general ed. A. A. Kochkarova. — Moscow: KnoRus, 2020. — 145 p. — ISBN 978-5-406-00470-8. — URL: <https://book.ru/book/934219>. — Text: electronic.

3. Belokurova, M. E, Methods of making management decisions (in diagrams and tables) - textbook/M. E. Belokurova, T. V. Butova, ; under ed. AND. Yu. Belyaeva, O.V. Panina. — Moscow: KnoRus, 2023. — 230 p. — ISBN 978-5-406-10295-4. — URL: <https://book.ru/book/944942>. — Text: electronic.

5.1.2. Additional literature

1. Orlov, A.I. Theory and development methods management solutions: textbook /A. I. Orlov. - 2nd ed., rev. - M.: National Open University "INTUIT", 2016. - 564 p. - URL: <https://e.lanbook.com/book/100526>. - Text: electronic.

2. Kuzmina, L.P. Managerial solutions : educational allowance /L.P. Kuzmina. – Kazan: KSEU, 2009. – 164 pp.

3. Managerial solutions : textbook for universities /L.I. Lukicheva, D. N. Egorychev; ed. Yu. P. Aniskina. – 3rd ed., rev. – M.: Omega – L, 2008. – 383 p. – (Higher School of Management). – ISBN 978-5-370-00912-9.

5.2. Informational provision of

5.2.1. Electronic and internetresources

No p/p	Name electronic and internetresources	Link
1	<i>Encyclopedias, dictionaries, handbooks</i>	http://www.rubricon.com
2	<i>Portal "Open education"</i>	http://npoed.ru
3	<i>One window access k educational resources</i>	http://window.edu.ru

5.2.2. Professional databases/Information and reference databases systems

No p/p	Name professional databases	Address	Access mode
1	<i>Official internet portal legal information</i>	http://pravo.gov.ru	http://pravo.gov.ru
2	<i>Reference and legal system according to the legislation of the Russian Federation</i>	http://garant.ru	http://garant.ru
3	<i>Scientific electronic library</i>	http://elibrary.ru	http://elibrary.ru
4	<i>Russian state bib- lyotheca</i>	http://www.rsl.ru	http://www.rsl.ru
5	<i>International abstract zbmth database of scientific publications</i>	http://www.zbmath.org	http://www.zbmat
			h.org

6	<i>International abstract database scientific publications Springerlink</i>	http:// link.springer.com	http:// link.springer.com
7	<i>Educational portal</i>	http://www.ucheba.com	http://www.ucheba.com
8	<i>Reference legal system «Consultant Plus»</i>	http://consultant.ru	http://consultant.ru

5.2.3. Licensed and free distributed software ensuring discipline

No p/p	Name software security	Description of the description	Details confirming documentov
1	Operating room windows system 7 Professional (certified FSTEC)	licensed	CJSC "TaxNet-Service" №IN THE FACE 0000/2014 from 27/05/2014 Not exquisite. law . Indefinitely
2	Windows 7 Professional (Pro)	licensed	CJSC "SoftLine Trade" №2011.25486 from 28/11/2011 Failure to. right. Indefinitely
3	Office Standard 2007 Russian OLP NL AcademicEdition+	licensed	CJSC «Soft Line Trade» №21/2010 from 05/04/2010 Not exquisite. law . Indefinitely
4	Browser Chrome	free	Free license Not ex. right. Indefinitely
5	LMS Moodle	free	Free license Not ex. right. Indefinitely
6	Windows 10	licensed	- OOO "Softline trade" № Tr096148 from 29/09/2020, non-excl. right, to the 14/09/2021

6. Material and technical provision of disciplines

Name type of educational work	Name educational audience, specialized laboratories	List necessary equipment and technical training tools
Lectures	Educational audience for conducting lecture-type classes	Specialized teaching furniture, technical teaching aids, white-collar workers for presentation educational information big audiences (multimedia

		projector, computer (laptop), screen), demonstration equipment, educational and visual aids
Practical classes	Study auditorium for carrying out seminary classes like, group and individual consultations, current control and intermediate certifications	Specialized training furniture, technical means of training (multimedia projector, computer (laptop), screen), etc.
Independent work	Computer class the exit in the Internet V-600a	Specialized educational furniture for 30 seats, 30 computers, technical teaching aids (multimedia projector, computer (laptop), screen), video cameras, software provision of
	Reading hall libraries	Specialized furniture, computer technology possibility exit in the Internet and providing access to EIOS, screen, multimedia projector, software provision of

7. Features of organizing educational activities for people with disabilities and disabled people

Faces s limited opportunities health (OVZ) and disabled people they have the opportunity to freely move from one educational and laboratory building to another, climb to all floors of educational and laboratory buildings, study in educational and other premises, taking into account the characteristics of the psychophysical one development and states health.

To train people with disabilities and disabled people with musculoskeletal disorders, conditions for unhindered access to all educational premises are provided. Information about special conditions created for students with disabilities and disabled people is posted on the university website www//kgeu.ru. It is possible to provide technical assistance with an assistant a also services sign language interpreters and typhlosurdist translators.

To adapt to the perception of reference and educational material in the discipline by persons with disabilities and people with hearing impairments, the following conditions are provided:

- for better orientation in the audience, apply alert signals about the start and end of the lesson (word «bell» is written on the board);
- the teacher attracts the attention of a hearing-impaired student with a gesture (a hand is placed on the shoulder, and a sharp pat is performed);
- when talking to a student, the teacher looks at it is, he says clearly, in short sentences, providing the ability to read lips.

Compensation for difficulties in the speech and intellectual development of hearing-impaired students is carried out by:

- use of diagrams, diagrams, drawings, computer presentations with hyperlinks commenting on individual image components;
- regular use of exercises to graphically highlight significant features of objects and phenomena;
- providing the student with the opportunity to receive targeted advice by email as needed.

To adapt to face perception s OVZ and disabled people with visual impairments of reference, educational, educational material, the following conditions are provided for by the educational program in the chosen area of training:

- the official website is being adapted on the Internet with taking into account special needs disabled people by vision, provided availability of large-font reference information about the training schedule;
- the teaching staff, their interlocutor (if necessary), who are present at the lesson, introduce themselves to the student, and each time the person to whom the teaching staff addresses is named;
- actions, gestures, movements of the teaching staff are commented on briefly and clearly;
- printed information is provided in large print (from 18 points), and is announced in total;
- provided necessary level illumination premises;
- the opportunity to use computers during classes and the right to record explanations on a voice recorder (at the request of students) are provided.

The form of current and intermediate certification for students with disabilities and disabled people is determined by the teaching staff in accordance with the curriculum. If necessary, a student with disabilities or a disabled person, taking into account their individual psychophysical characteristics, is given the opportunity to undergo an intermediate certification orally, in writing on paper, in writing on a computer, in the form of testing, etc., or is given additional time to prepare a response.

8. Methodical recommendations for the teachers by organization of educational work with students.

Methodical ensuring the process of educating students is one of the determining factors of the high quality of education. A university teacher, demonstrating high professionalism, erudition, a clear civic position, self-discipline, and a creative approach to solving professional problems, contributes to the formation of a harmonious personality during the educational process.

When implementing the discipline, the teacher can use the following methods of educational work:

- methods of forming personal consciousness (conversation, debate, suggestion, instruction, control, explanation, example, self-control, story, advice, persuasion, etc.);

- methods of organizing activities and forming behavioral experience (assignment, public opinion, pedagogical requirement, assignment, training, creating educational situations, training, exercise, etc.);

- methods of motivating activity and behavior (approval, encouragement of social activity, censure, creating situations of success, creating situations for emotional and moral experiences, competition, etc.)

When implementing the discipline, the teacher must take into account the following areas of educational activity:

Civil and patriotic education:

- formation of a holistic worldview, Russian, among students identity, respect for one's family, society, state, spiritual, moral and sociocultural values accepted in the family and society, for the national, cultural and historical heritage, formation of a desire for its preservation and development;

- formation of an active civic position in students, based on on the traditional cultural, spiritual and moral values russian society, to increase the ability to responsibly implement their constitutional rights and responsibilities;

- development of the legal and political culture of students, expansion of constructive participation in decision-making affecting their rights and interests, including in various forms of self-organization, self-government, and socially significant activities;

- formation of motives, moral and semantic attitudes individuals who make it possible to resist extremism, xenophobia, discrimination on social, religious, racial, national grounds, interethnic and interfaith intolerance, and other negative social phenomena.

Spiritual and moral education:

- fostering a sense of dignity, honor and honesty, conscientiousness, respect for parents, teachers, and older people;

- formation of the principles of collectivism and solidarity, the spirit of mercy and compassion, the habit of caring for people in difficult life situations;

- building solidarity and a sense of social responsibility towards people with disabilities, overcoming psychological barriers towards people with disabilities possibilities;

- formation of an emotionally rich and spiritually sublime attitude towards the world, the ability and ability to convey to others its own aesthetic experience.

Cultural and educational education:

- formation aesthetic paintings mira;

- formation of respect for the cultural values of the hometown, region, countries;

- increase cognitive activities students.

Scientific and educational education:

- formation u students scientific worldviews;

- formation skills receive knowledge;

- formation skills analysis and synthesis information, in the tom number in the professional field.

Contributed changes and statements on the new educational

№ p/p	№ section contributions changes	Date contributions changes	Contents changes	«Agreed» Head caf. implementing discipline	«Agreed» chairman UMK institute (faculty), in the the composition of which includes the issuer
1	2	3	4	5	6
1					
2					
3					



Appendix to the course

syllabus

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**ASSESSMENT MATERIALS
for the discipline**

B1.V.ED.01.01.03 Management decision-making methods
(Name of the discipline in accordance with the curriculum)

Kazan, 2026

Assessment materials in the discipline are designed to evaluate learning outcomes against indicators of achievement of competencies.

The assessment of training results in the discipline is carried out within the framework of current control (TC) and intermediate certification, carried out according to the point-rating system (BRS).

1. Technological map

Semester 7

Name section	Forms and type of control	Rating indicators							
		I current control	Additional points to TK1	II current control	Additional points to TK2	III current control	Additional points to TK3	Total	Interim certification
Section 1. « The main ones methods of making management decisions in conditions uncertainties and risk <TAG1>	TK1	55	0-45					55-100	55-100
Test or written survey		5							
Practical task		50							
Intermediate certification (pass, exam, KP, KR)	OM								0-45
Assignment intermediate certifications									0-15
IN THE written form by tickets									0-30

Semester 8

Name section	Forms and type of control	Rating indicators							
		I current control	Additional points to TK1	II current control	Additional points to TK2	III current control	Additional points to TK3	Total	Interim certification
Section 2. « The main ones methods for making optimal management decisions c conditions certainty <TAG1>	TK2			55	0-45			55-100	55-100

Test or written survey				5					
Practical task				50					
Intermediate certification (pass, exam, KP, KR)	OM								0-45
Assignment intermediate certifications									0-15
IN THE written form by tickets									0-30

2. Assessment materials for ongoing control and interim certification

Scale evaluations results of training by discipline:

Completion code	Competence indicator code	Planned results of training by discipline	Level indicator formation competencies			
			Tall	Average	Below average	Low
			85 to 100	from 70 to 84	55 to 69	from 0 to the 54
			Scale assessments			
			great	well	satisfying	neudovleth
PC-3	PC-3.1	know:				
Able to use advanced domestic and foreign experience in the field of organizational management to prepare balanced management decisions, taking into account the influence of the	Analyzes advanced domestic and foreign experience in the field of organizational management.	Results of the analysis of the advanced domestic and foreign experience in areas of management organizations for the purposes of studying methods of acceptance managerial x of the solutions	Level of knowledge the result of the analysis of the leading o fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting	Level of knowledge the result of the analysis of the advanced fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of	Minimal let's say level of knowledge the result of the analysis of the leading o fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying	Level of knowledge of analysis results advanced fatherland nnogo and abroad wow experience in areas of management organizations for the purposes of studying methods of adopting managerial solutions

modern socio-economic environment.			managerial decisions in the volume, accordingly	adopting managerial decisions in volume, accordingly	methods of management adoption	below
			in the form of programs and preparation no mistakes	in the form of programs and preparation has place is not so many minor mistakes	czech decisions, there are many minor mistakes	minimal required yi, take place gross mistakes
		be able to:				
		apply the results of advanced analysis domestic and foreign experience c areas of management organizations for the purposes of studying methods of acceptance managerial x of the solutions	Prodemonstirov all of them basic skills will be applied result y analysis advanced news about fatherland nnogo and abroad wow	Prodemonstirov all of them basic skills will be applied result y analysis advanced fatherland nnogo and abroad wow experience in the	Prodemonstirov all of them basic skills will be applied result y analysis advanced news about fatherland nnogo and abroad wow	Not really prodemonstirov all of them the main ones e skills they will apply the result of the analysis of advanced fatherland

			experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions in full volume	field management ai organizers for the purposes of studying methods of adopting managerial solutions not rude and shortcomings of mi	experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions, take place minor mistakes	ngo and abroad wow experience in areas of management organizations for the purposes of studying methods of adopting managerial decisions take place gross mistakes
		own:				
		advanced terminology domestic and foreign experience c areas of the region	Promon is stripped y skills applied ter minologists	Promon stri-basic skills are provided applied	Demonstrated minimal set skills applied	Skills applied to the terminol ogyi advanced
		management of the organization for the purposes of studying methods of acceptance managerial x of the solutions	and advanced news about fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions in full measure	ogyi's terminol advanced fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions	aya ogyi's terminol advanced news about fatherland nnogo and abroad wow experience in the field management ai organizers for the purposes of studying methods of adopting managerial decisions	go fatherland ngo and abroad wow experience in areas of management organizations for the purposes of studying methods of adopting managerial there are no solutions prodemo nstirov

				by the organization		ana
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Evaluation «**excellent**» billed for completion *practical tasks in the semester; test tasks; deep understanding of management decision-making methods complete and meaningful answers to questions ticket;*

Evaluation «**good**» billed for completion *practical tasks in the semester; test tasks; understanding of management decision-making methods answers to ticket questions;*

Evaluation «**satisfactory**» exhibited for execution *practical tasks in the semester and test ones tasks;*

Evaluation «**unsatisfactory**» billed for weak and incomplete execution *semester practice and test assignments;*

3. List of assessment tools

Brief description of the assessment tools used in the current monitoring of academic performance and intermediate certification of the student discipline:

Name of the assessment means	Brief characteristic evaluative means	Description of the evaluation tool
Practical task (PZ)	A means of assessing the ability to apply acquired theoretical knowledge in a practical situation. Assignment directed on the assessment competencies by discipline, contains clear instructions by execution or algorithm of actions	Kit tasks and tasks
Test (Test)	System standardized tasks, allowing you to automate the procedure for measuring the student's level of knowledge and skills	Kit test ones tasks

4. A list of control tasks or other materials necessary to assess knowledge, skills and abilities characterizing the stages of competence formation in the process of mastering the discipline

Example tasks

For the current control T K 1 :

Tested competence: PC-3 – Capable of using advanced domestic and foreign experience in the field of organizational management in order to prepare balanced management decisions, taking into account the influence of the modern socio-economic environment, PC-3.1 – Analyzes advanced domestic and foreign experience in the field of management organizations.

Test

Question	Options answer
<p>Criterion <i>greatest</i> at <i>caution</i> use</p> <p><i>theories matrix games in the case of decision-making under conditions uncertainties, based on the application of a payoff matrix, is</i></p>	<i>criterion Savage</i>
	<i>criterion Hurwitz</i>
	<i>maximal criterion</i>
	<i>criterion Walda</i>
<p><i>The content of which point of the mathematical model of the decision-making problem under conditions of uncertainty when using matrix theory games usually not it's asked condition tasks</i></p>	<i>strategies "nature"</i>
	<i>matrix winnings</i>
	<i>strategies LPR</i>
	<i>matrix losses</i>
<p><i>Theory massively services based on the</i></p>	<i>theories marketing</i>
	<i>theories matrix games</i>
	<i>theories programming</i>
	<i>theories probabilities</i>

Questions k comprehensive assignment *TK1*

1. Explain staging tasks acceptance decisions in the conditions uncertainties based on matrix game theory
2. Give it characteristics criterion Walda.
3. Open it up concept and general schema systems queuing.

Typical task:

The retail company, which serves customers with telephone orders, has five operators to accept applications. Orders for goods arrive at random times independently of each other, with an average of two orders per minute. The average customer service time is one minute.

Conduct an analysis of the characteristics of a given CMO and draw conclusions about the work of the enterprise.

Define, how it will have an impact on the characteristics SMO and work enterprises transfer one of the operators to another site.

For the current control T K 2 :

Tested competence: PC-3 – Capable of using advanced domestic and foreign experience in the field of organizational management in order to prepare balanced management decisions, taking into account the influence of the modern socio-economic environment, PC-3.1 – Analyzes advanced domestic and foreign experience in the field of management organizations.

Test

Question	Options answer
L.V. Kantorovich is laureate Nobel Prize awards for	development theories matrix games
	development theories systems massively services
	development theories optimal distributions resources
	development theories network planning
Method multipliers Lagrange serves to solve problems	linear programming
	network planning
	nonlinear programming
	management service
Integer programming problems they are deciding	method Hurwitz
	method branches and borders
	method potentials
	method multipliers Lagrange

Questions k comprehensive assignment TK2

1. Open it up essence transport tasks.
2. Open it up essence tasks traveling salesman.
3. Open it up essence tasks o appointment.

Typical task:

The company supplies bakeries with flour. The company's three warehouses (I, II, III) contain, respectively, 90, 70 and 50 tons of flour, which necessary transport on the 4 bakery (1, 2, 3, 4), accordingly, in the in quantities 80, 60, 40 and 30 tons.

A management solution must be developed for optimal planning of flour transportation (i.e., a solution that achieves minimal transportation costs) if the cost of transporting one ton is per bakeries 1, 2, 3, 4 with warehouse I I equal to accordingly, 2, 1, 3, 2 usl.

den. units; with warehouse II equal to accordingly, 2, 3, 3, 1 usl. den. units; from warehouse III is equal to, respectively, 3, 3, 2, 1 conventional. den. units. Build the optimal transportation plan and determine its transportation costs.

For the intermediate certifications:

(examples questions k exam)

1. The main ones concepts theories matrix games.
2. Staging tasks acceptance decisions in the conditions uncertainties based on matrix game theory.
3. Meaning theories massively services for the acceptance solutions.
4. The main ones components systems massively services.
5. Entity tasks linear programming. General schema constructing a mathematical model of the problem of optimal production planning.
6. Essence and types of transport task. Approaches to the solution transport tasks.
7. Entity tasks integer programming.
8. Concept o method branches and borders. Entity tasks choice options.
9. The task traveling salesman.
10. The task o appointment.