"Decision support models and methods".

(name of the course)

outline

to the curriculum of the institution of higher education

specialty 7-06-0612-03 system information management

	Форма получения высшего образования	
	Очная (дневная)	Correspondence
course	1	1
semester	1	1
lectures, hours	24	6
laboratory work, hours	24	6
Practical exercises, hours	16	4
Exam, semester	1	1
classroom hours in academic discipline	64	16
independent work, hours	152	200
total hours of the discipline / credit units	216/6	

1.summary of the contents of the discipline

acquaintance of students with the basic mathematical models and methods, development of the system approach to studying of economic and technical processes and the phenomena by means of mathematical models, formation of knowledge and skills of practical application of widely used applied mathematical models for the solution of various problems.

2 learning objectives.

as a result of study of the discipline the student should

know:

problems of decision-making in complex system tasks with varying degrees of structurization on the basis of modern methodology of operations research, expert analysis and systems analysis; scientific tools for modeling and optimization of management decisions (methods, techniques, models, algorithms, procedures and software);

technology of analysis and optimization of management decisions using prospective means of computer technology.

to be able to:

carry out structuring, formalization and algorithmic procedures in the tasks of modeling and optimization of managerial decisions;

solve complex system management tasks in conditions of multiple options, multicriteria, uncertainty and risk;

the graduate, who has studied the discipline, should

have the skill:

skills of using advanced computer technologies for solving complex system tasks of forecasting, planning, diagnostics, design and management.

3. competencies to be formed

uk-1 apply advanced methods of systems analysis and decision-making to investigate functional problems based on global trends in the development of systems analysis, management and information technology, uk-5 develop innovative receptivity and ability to innovate, uk-6 be able to predict the implementation of professional activities and solve professional problems in terms of uncertainty.

4. requirements and forms of current and intermediate attestation.

Current -ziz, zlr, intermediate - exam.