

Discipline: Operations research

Annotation

Volume: 4 ECTS, 144 academic hours.

Final control form: exam

Summary. The course “Operations Research” examines the main optimization economic and mathematical models used in managing the activities of industries or enterprises, resource allocation, and choosing the best development option. Special attention is paid to classical methods of decision-making and practical models of forecasting economic processes using time series.

The aim and objectives of the discipline: the course is aimed at expanding knowledge on modern optimization methods in management and forecasting models in order to develop skills for their practical application in making scientifically sound decisions in management.

Connection with other disciplines of the specialty: this course, based on the methods of mathematical processing of economic statistics and optimization models of operations research, allows us to identify quantitative indicators of qualitative dependencies in management in order to make economically sound management decisions.

Requirements for the initial levels of knowledge and skills of students:

Students of the course should have basic knowledge of:

- “General theory of Statistics”
- “Socio-economic statistics”
- “Econometrics”

The volume of the discipline is 144 academic hours (4 ECTS). The course is designed for 36 hours of lectures and 36 hours of practical classes, as well as 72 hours of independent work of students, which will consist of homework and preparation for intermediate controls.