

ECONOMIC EVALUATION OF DESIGN SOLUTIONS ON TRANSPORT

(course title)

COURSE TO THE PRACTICE PROGRAM OF HIGHER EDUCATION INSTITUTIONS

Speciality 7-06-0715-01 "Economic evaluation of design solutions in transport"

Profiling Technical operation of vehicles

	Форма получения высшего образования	
	Очная (дневная)	Заочная
Year	1	1
Semester	1	1
Lectures, hours	34	8
Practical (seminar) classes, hours	16	4
Report, semester	1	1
Classroom hours per academic discipline	50	12
Independent work, hours	166	204
Total hours per academic discipline / credit units	216 / 3	

1. Summary of the academic discipline

Methods for searching for new ideas in the development of innovative design solutions. Competitiveness of new technology: essence and evaluation. Technical and economic analysis of design solutions for transport. Investments - investments in the implementation of an innovative design solution. Fundamentals of evaluating the effectiveness of design solutions. Methods for evaluating the effectiveness of design solutions. Features of the assessment of organizational and technical design solutions in transport. Analysis of the risk of implementing an investment decision. Business plan of an investment project: legal basis and structure.

2. Learning outcomes

to know:

- sources of information for the formation of initial data when substantiating design decisions;
- methods and technology of economic evaluation of design solutions in transport;
- modern concepts of economic efficiency;

be able to:

- to give an economic assessment of design solutions for their practical application;
- analyze and make decisions to improve the efficiency of the business in the transport sector;

have the skill:

- application of tools for estimating the cost of vehicles and their components;
- use of methods of economic evaluation of engineering and management decisions;
- application of methods for evaluating the effectiveness of the organization, management and development of a transport organization.

3. Formed competencies

UK-1 Apply the methods of scientific knowledge in research activities, generate and implement innovative ideas.

UK-4 Provide communication, demonstrate leadership skills, be capable of team building and development of strategic goals and objectives.

UK-5 Develop innovative susceptibility and ability to innovate

UK-6 Be able to predict the conditions for the implementation of professional activities and solve professional problems in conditions of uncertainty

EPC-3 Give an economic assessment of new design solutions for their practical application and evaluate the cost of vehicles and their components

4. Requirements and forms of current and interim certification.

The form of the current certification (PA) is a credit.