

OPERATION OF ROADS

ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

SPECIALTY 1-70 03 01
DIRECTION OF SPECIALTY HIGHWAYS
SPECIALIZATION _____

	Форма получения высшего образования		
	Full-time (daytime)	Part-time	Part-time reduced
Well	5	5	5
Semester	9	10	10
Lectures, hours	32	6	
Practical (seminar) classes, hours	32	4	
Course project, semester	9	11	10
Report, semester			
Exam, semester	9	10	
Classroom hours per academic discipline	64	10	0
Independent work, hours	44	98	108
Total hours per academic discipline /	108/3		

1. Brief content of the discipline

The purpose of the discipline is to provide the necessary information on issues of engineering, technology and organization of road maintenance and repair; show the impact of road quality on the operation and safety of road transport.

2. Learning outcomes

As a result of studying the discipline, the student should know:

- modern methods and technology for the maintenance and repair of roads;
- types and scope of works on the maintenance and repair of roads;
- the main ways of organizing and managing traffic on roads;
- methods of organizing the maintenance and repair of roads.

As a result of studying the discipline, the student should be able to:

- determine the composition and types of work on the maintenance and repair of roads;
- organize work on the maintenance and repair of automotive works;
- determine indicators of traffic safety on roads.

3. Formable competencies

Codes of competencies to be formed	Names of competencies to be formed
Academic	
AK-1	Be able to apply basic scientific and theoretical knowledge to solve theoretical and practical problems
AK-2	Be proficient in system and comparative analysis
AK-3	Possess research skills
AK-4	Be able to work independently
AK-7	Have skills related to the use of technical devices, information management and computer work
AK-8	Possess oral and written communication skills
Socio-personal	
SLK-2	Be capable of social interaction
SLK-3	Possess the ability for interpersonal communication
SLK-4	Be able to work in a team
Design and research activities	
PK-1	Conduct analysis and assessment of engineering-geological and hydrological conditions for the construction of transport facilities; take into account the influence of these conditions on the choice of design and technological solutions
PK-2	Develop technical specifications for the projected object, taking into account the results of research and development work
Repair and maintenance activities	
PK-17	Carry out constant technical supervision of the condition of operated transport facilities
PK-19	Determine the carrying capacity of transport facilities
PK-20	To know and improve the methods of diagnostics, repair and reconstruction of roads
PK-21	Implement in practice modern approaches to organizing the efficiency of the functioning of transport facilities
PK-22	Monitor compliance with labor protection standards, safety precautions during work on the repair and reconstruction of transport facilities, fire safety
PK-23	Identify the causes of damage to structural elements, keep records of them, develop proposals for their prevention
PK-24	Provide training for maintenance personnel. safety rules and timely check knowledge
Innovation activity	
PK-40	Define the goals of innovation and how to achieve them
PK-42	Develop business plans for the creation of new equipment, technology
PK-47	Own innovative technologies for the maintenance and repair of roads

4. Requirements and forms of current and intermediate certification.

The following forms are used to diagnose competencies:

- oral;
- written;
- oral and written;

To assess the level of knowledge of students, the following diagnostic tools are used:

- carrying out control works (test tasks) on separate topics;
- defense of individual assignments completed in practical classes;
- performance of the student on the prepared abstract, including at the conference;
- defense of the course project (work);
- exam.