

MAINTENANCE AND REPAIR OF TRANSPORT FACILITIES

(name of the discipline)

annotation

TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION

Specialty 1-70 03 01 Highways

Specialization 1-70 03 01 01 Construction of roads and airfields

	Form of higher education	
	Full-time (full-time)	Correspondence
Course	5	6
Semester 9 11	9	11
Lectures, hours	32	8
Practical (seminar) classes, hours	16	4
Classroom control work (semester, hours)		11-2 hours
Exam, semester	9	11
Classroom hours in the academic discipline	48	12
Independent work, hours	60	96
Total hours in academic discipline / credits	108/3	

1. Summary of the academic discipline

The academic discipline contains material on the evaluation of the work of transport structures under the influence of loads in the presence of defects and damage to load-bearing structures.

2. Learning outcomes

As a result of mastering the discipline, the student must: know the basic methods of calculating the load capacity of elements of transport structures, types of work on inspection, inspection, testing, repair and reconstruction of structures with elements of various materials; ways to strengthen and widen bridge structures; be able to evaluate experimentally and by calculations, the actual condition of the load-bearing and enclosing elements of structures, regulatory structures and the bridge bed, to predict the operation of objects for a long-term period of further operation, to assign a regime for passing loads on structures; to possess methods for determining

the strength characteristics of materials of elements of transport structures, defect parameters and geometric characteristics of structures.

3. Formed competencies:

IİK-6 - perform structural calculations of road elements and transport facilities, taking into account regulatory documents;

IİK-8 - to carry out author's supervision over the construction or reconstruction of a transport facility within the relevant competence;

IİK-9 - to develop technical documentation for the projected transport facility.

4. Requirements and forms of current and interim certification.

ZPR – protection of practical work;

PKU – intermediate control of academic performance;

TA – current attestation (exam).