CONSTRUCTION OF ROADS
(course title)

COURSE SYLLABUS ABSTRACT

7-07-0732-01 Construction of buildings and structures
(speciality code and name)

Highways
(concentration)

	STUDY MODE	
	Full-time	part-time (shortened program)
Year	3,4	3,4
Semester	6, 7, 8	6,7,8
Lectures, hours	102	24
Practical classes (seminar), hours	84	20
Laboratory classes, hours	16	16
Course paper, semester	6, 7	6,7
Exam, semester	6, 7, 8	6,7,8
Contact hours	202	48
Independent study, hours	194	348
Total course duration in hours / credit units	396/11	

1. Course outline. The purpose of the discipline is to form students' professional knowledge on the technologies of construction, reconstruction and repair of subgrade and pavement of all existing categories of roads based on the use of modern materials, advanced construction methods and productive machines and complexes.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- modern methods of road construction works, the sequence of technological operations during the construction in various natural and geophysical conditions of the subgrade, all types of pavement and artificial structures on highways; technology of work of production enterprises of the road industry and the organization of the production process on them; methodology for determining labor costs for the implementation of technological operations and the acquisition of production units for the construction of the highway; the basic rules for the arrangement of machines, mechanisms and labor on the road, ensuring high quality of work, maximum productivity of machines and mechanisms and high quality of work.

be able to:

- develop technological maps for the production of works, taking into account modern methods and methods of production; calculate the required resources; organize the production process, carry out operational quality control. carry out the calculation of volumes and the need for materials for the construction of pavement.

possess:

- practical skills in the use of materials and technologies for the construction and reconstruction of roads; methods of quality control of work in the construction and reconstruction of roads; terminology adopted in the practice of road construction; methods for calculating the physical and mechanical parameters of soils and road construction materials; methods of geodetic support for the production of works; regulatory and technical literature.

3. Competencies. Be able to develop and improve oneself in professional activities, develop innovative receptivity and the ability to innovate; Use modern methods and approaches in the field of road construction technologies in the construction of highways and their structures

4. Requirements and forms of midcourse evaluation and summative assessment.

To assess the level of knowledge of students in the 6th, 7th, 8th semester, the following means are used: defense of practical work on an individual assignment; defense of coursework; current certification (exam).