

BUILDING MATERIALS SCIENCE

(course title)

COURSE SYLLABUS ABSTRACT

Speciality 7-07-07.32-01 – Construction of buildings and structures

Concentration highways

	STUDY MODE	
	full-time	part-time (shortened program)
Year	2	2
Semester	3,4	3
Lectures, hours	68	6
Laboratory classes, hours	68	6
In-class test (semester, hours)	-	(3), 2 hour
Pass/fail, semester	3	-
Exam, semester	4	3
Contact hours	136	14
Independent study, hours	80	202
Total course duration in hours / credit units	216/6	216/6

1. Course outline

Study of materials used in the construction, reconstruction, repair and maintenance of buildings and structures, as well as the requirements for these materials

2. Course learning outcomes

As a result of mastering the academic discipline, the student must to

know: materials used in the construction, repair and maintenance of highways; basic technologies for obtaining road construction materials, methods of quality management; working conditions of materials in structures.

be able to: determine the basic physical and mechanical properties of road construction materials in accordance with the requirements of regulatory documents imposed on them and give a reasoned conclusion about their appropriate use;

have the skills to: work with measuring and laboratory equipment; statistical processing of experimental data and formulation of reasonable conclusions based on the data obtained; work with technical regulations in the field of road materials science.

3. Competencies

Apply modern methods and approaches in the field of construction technologies, structures and materials to solve engineering and construction tasks

4. Requirements and forms of midcourse evaluation and summative assessment

The current certification of students is carried out to determine the compliance of the results of their educational activities with the requirements of educational standards, educational and program documentation of educational programs of higher education. The forms of the current certification of students are a credit and an exam. The current certification is carried out orally or orally in writing. The form of intermediate certification is the protection of laboratory work, which is carried out in writing in the form of test tasks.