

GEOGRAPHIC INFORMATION SYSTEMS

COURSE SYLLABUS ABSTRACT

Specialty 7-06-0732-01 Construction

Concentration Transport construction

	STUDY MODE	
	full-time	part-time
Year	2	2
Semester	3	4
Lectures, hours	68	14
Laboratory classes, hours	68	14
Exam, semester	3	4
Contact hours	136	28
Independent study, hours	274	382
Total course duration in hours / credit units	410/12	

1. Course outline

The purpose of the academic discipline is to study the principles of design and use of geographic information systems, to develop methodological and practical skills in the use of geographic information technologies in road construction.

2. Course learning outcomes

As a result of mastering the academic discipline, the student must know:

- basic methods and means of obtaining and processing geospatial data to solve professional problems;

be able to:

- work with special-purpose software products for modeling objects and processes of professional activity,
- develop models of objects and processes,
- determine the spatiotemporal position of objects using modern methods and means of obtaining and analyzing information;

have the skill:

- modeling methods for solving professional problems.

3. Competencies

- Apply computer technology in solving engineering problems to create a digital terrain model for engineering use.

4. Requirements and forms of midcourse evaluation and summative assessment

Current certification: – protection of laboratory work.

Intermediate certification: – exam.