

COMPUTER DESIGN AND SIMULATION

COURSE SYLLABUS ABSTRACT

Specialty 7-06-0732-01 Construction

Concentration Transport construction

	STUDY MODE	
	full-time	part-time
Year	2	2
Semester	3	3
Lectures, hours	8	2
Laboratory classes, hours	50	10
Test, semester	3	3
Contact hours	58	12
Independent study, hours	158	204
Total course duration in hours / credit units	216/6	

1. Course outline

The objective of the academic discipline is to provide students with the skills to solve practical problems using methods and methodologies of information modeling in specialized engineering software products.

2. Course learning outcomes

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

- theory on information modeling;
- basic principles of modeling;
- software products for modeling.

be able to:

- build a simulation model to solve engineering problems;
- work in the AnyLogic simulation environment.
- build simulation models in the AnyLogic environment.

Have a skill:

- simulation modeling;
- simulation work in the AnyLogic system.

3. Competencies

- Solve research and innovation problems based on the use of information and communication technologies
- To use modern software systems for design, 3D-modeling, development of information models of industrial and civil facilities, to use the acquired knowledge to solve practical, research and innovation tasks.

4. Requirements and forms of midcourse evaluation and summative assessment

Current certification: – protection of laboratory work.

Intermediate certification: – test.