

INFORMATION MODELLING

COURSE SYLLABUS ABSTRACT

Specialty 7-07-0732-01 «Construction of buildings and structures»
Concentration «Road of Construction»

	STUDY MODE	
	full-time	part-time (shortened program)
Year	3	3
Semester	5	5
Lectures, hours	–	–
Practical classes (seminars), hours	16	4
Laboratory, hours	16	4
Pass/fail, semester	5	5
Contact hours	32	8
Independent study, hours	76	100
Total course duration in hours / credit units	108/3	

1. Course outline

The aim of the discipline is to form the basic volume of theoretical knowledge of modern technologies of computer modeling of systems, on the basis of which practical skills on the analysis of cause-effect relations, forecasting, planning, making managerial decisions are formed.

2. Course learning outcomes

The aim of the discipline is to provide students with the skills to solve practical problems using methods and methodologies of information modelling in specialised engineering software products.

As a result of mastering the discipline, the student should
know: theory of information modeling; basic principles of modeling; software products for modeling.

be able to: to build simulation model for engineering problem solving; to work in simulation modeling environment AnyLogic; to build simulation models in AnyLogic environment

to possess a skill: simulation modeling skills; simulation modeling skills in AnyLogic environment.

3. Competencies

Apply computer technologies to solve engineering problems in creating a digital terrain model for engineering use. Apply software to automate the development of technological and design documentation in construction and to develop automated control systems

4. Requirements and forms of midcourse evaluation and summative assessment

Current: individual assignments. Midterm assessment: oral test