INFORMATION MODELLING

COURSE SYLLABUS ABSTRACT

Specialty 1-70 03 01 Highways

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2	2	2
Semester	3	4	3
Lectures, hours	–	–	–
Practical classes (seminars), hours	16	4	4
Laboratory, hours	16	4	4
Pass/fail, semester	3	4	3
Contact hours	32	8	8
Independent study, hours	92	100	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.

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

know: simulation modeling skills; simulation modeling skills in AnyLogic environment.

3. Competencies

PC-1 Apply knowledge of natural science disciplines for experimental and theoretical investigation, analysis and solution of applied engineering problems

SK-19 Apply computer technology to solve engineering problems in the creation of digital terrain models

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