

## **INFORMATICS**

(course title)

### **COURSE SYLLABUS ABSTRACT**

6-05-0732-02 Expertise and management of real estate

7-07-0732-01 Construction of buildings and constructions

(speciality code and name)

**Industrial and civil engineering; Specialisation: Automobile Roads**

(concentration)

	STUDY MODE	
	full-time	part-time
Year	1	1
Semester	1	1
Lectures, hours	16	4
Laboratory classes, hours	34	6
Pass/fail, semester	1	1
Contact hours	50	10
Independent study, hours	58	98
Total course duration in hours / credit units	108/3	

#### 1. Course outline

The aim of the academic discipline is to teach students modern information technologies and means of transformation, processing, storage and transmission of information.

#### 2. Course learning outcomes

Upon completion of the course, students will be expected to

know: problems of information security of computer systems and methods of information protection information; basics of protecting information and information constituting state (commercial) secrets

be able to: work in Microsoft Windows operating system; use standard office software packages, including Microsoft Word, word processor office software packages, including Microsoft Word word processor, Microsoft Word word processor, Microsoft Excel, Microsoft Power Point presentation tools; use packages of special programmes for mathematical purposes; build mathematical models, mathematical software packages; build mathematical models.

to possess a skill: methods algorithmisation of engineering tasks; practical creation and support of automated workplaces based on personal computers, the methods of algorithmisation of engineering tasks; practical creation and support of functioning of automated workplaces based on personal computers methods of programme, data and equipment management on the basis of modern operating systems for personal computers, modern operating systems for personal computers.

#### 3. Competencies

7-07-0732-1 Construction buildings and structures

YK-2 Solve professional, research and innovation tasks on the basis of application of information and communication technologies

6-05-0311-02 Economics and management

YK-2 Solve standard tasks of professional activity on the basis of application of information and communication technologies information and communication technologies

BPC-5 Apply software tools to solve engineering problems

In the study of the discipline uses a module-rating system for assessing students' knowledge. Protection of laboratory works, intermediate control of progress, credit.