

## Basics of design automation

(course title)

### **COURSE SYLLABUS ABSTRACT**

1-40 05 01 Information systems and technologies (majors in)

(speciality code and name)

1-40 05 01-01 Information systems and technologies (in designing and producing)

(specialisation code and name)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2, 3	3	2, 3
Semester	4, 5	5, 6	4, 5
Lectures, hours	50	12	10
Laboratory classes, hours	34	8	8
In-class test (semester, hours)		5 семестр (2 часа)	4 семестр (2 часа)
Pass/fail, semester	5	6	5
Exam, semester	4	5	4
Contact hours	84	22	20
Independent study, hours	132	194	196
Total course duration in hours / credit units	216/6		

#### 1. Course outline

Introduction to CAD. Mid-level CAD. Top-Level CAD.

#### 2. Course learning outcomes

Upon completion of the course, students will be expected to know:

main types of design tasks, methods of their formalization and solution; methodology of automation of engineering design of technical systems; method of solid modeling of machine building parts and assemblies by means of modern systems of automation of design and design works;

be able to:

design technical objects interactively; Develop programs and methodical tools for design design;

possess:

skills in working with geometric modeling systems.

#### 3. Competencies

SK -5 – Own Structural Modeling Basics.

#### 4. Requirements and forms of midcourse evaluation and summative assessment

– verbal-written: laboratory protection, test, exam.