

Fundamentals of Design Automation

(course title)

COURSE SYLLABUS ABSTRACT

6-05-0611-01 Information systems and technologies

(speciality code and name)

Profiling Information systems and technologies in designing and producing

| | STUDY MODE |
|---|------------|
| | full-time |
| Year | 2, 3 |
| Semester | 4, 5 |
| Lectures, hours | 50 |
| Laboratory classes, hours | 34 |
| Course paper, semester | 5 |
| Exam, semester | 4 |
| Contact hours | 84 |
| Independent study, hours | 132 |
| 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; to possess a skill:

skills in working with geometric modeling systems.

3. Competencies

- Own Structural Modeling Basics;
- To know the basics of research activities, to search, analyze and synthesize information;
- Be capable of self-development and improvement in professional activity;
- Take the initiative and adapt to changes in professional activity.

4. Requirements and forms of midcourse evaluation and summative assessment

- verbal-written: laboratory protection, course work protection, exam.