

# SPECIAL MACHINERY IN CONSTRUCTION

(course title)

## INTERNSHIP COURSE SYLLABUS ABSTRACT

7-06-0714-02 Innovative technologies in mechanical engineering

(speciality code and name)

Profiling Computer engineering of transport and technological machines

(concentration)

Advanced higher education

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	1	4
Total course duration in hours / credit units	108/3	

### 1. Internship course outline (aims and objectives)

The discipline contains materials intended for the formation of students' competencies in the field of theory and practice of constructing computer models, questions of constructing random variable generators with specified distribution laws, methods of checking their quality

### 2. Course learning outcomes

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

- purpose, scope and design of machines;
- basic methods for calculating the main parameters;
- specific indicators of metal consumption, energy saturation, labor consumption during manufacture and operation;

be able to:

- critically analyze the designs of machines and mechanisms, identifying the reasons for their low efficiency in order to develop new technical solutions;
- design machines and automated complexes;
- use automated design systems and modern computer technology;

to possess skills:

- possess methods of analyzing the designs of machines and mechanisms, identifying the reasons for their low efficiency in order to develop new technical solutions;
- methods of designing machines and automated complexes;
- computer-aided design technologies;

### 3. Competencies

SK-4 Have the skills of designing loading and unloading, mining and special construction machines

### 4. Form of midcourse evaluation- test.