MINING MACHINES
(course title)

COURSE SYLLABUS ABSTRACT
(speciality code and name)
7-06 0714 02 Innovative technologies in mechanical engineering
(concentration)
Advanced higher education

	STUDY MODE	
	full-time	part-time
Year	**1**	**1**
Semester	1	4
Lectures, hours	16	4
Practical classes (seminars), hours	16	4
Pass/fail, semester	1	4
Contact hours	32	8
Independent study, hours	76	100
Total course duration in hours / credit units	108/3	

1. Course outline
The program of the discipline “Mining machines” determines the content and sequence of studying the issues of design, theory and calculation of the main types of construction and road machinery and equipment.
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 BOD-2 Have the skills to conduct scientific research of transport and technological machines

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

Test