

INTRODUCTION TO ENGINEERING EDUCATION

(name of the discipline)

ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-36 01 04 "Equipment and technologies for highly efficient material processing processes"

	Form of higher education
	Full-time (daytime)
Well	1
Semester	1
Lectures, hours	16
Report, semester	1
Classroom hours per academic discipline	16
Independent work, hours	14
Total hours per academic discipline / credits	30

1. Brief content of the discipline

The discipline "Introduction to Engineering Education" contains the material necessary for introducing students to the future specialty, familiarizing them with the laws of development of technical systems, the general level of technology, machinery and equipment, as well as the problems and prospects for their development.

2. Learning outcomes

A student who has studied the discipline should know:

- basic concepts and definitions in mechanical engineering;
- types of technological equipment of machine-building enterprises, indicators of their technical level, technological aspects of operation;
- methods of production, operation and testing of technological equipment of machine-building enterprises;
- modern trends in the development of mechanical engineering and methods of processing materials.

be able to:

- classify modern means of production and automation of machine-building enterprises and analyze the features of their construction and functioning;
- to select and determine the parameters of machines

own:

- basic theoretical knowledge and apply it to solve scientific and practical problems of future engineers;
- systematic and comparative analysis, as well as research skills in mechanical engineering.

3. Formed competencies:

Mastering this academic discipline should ensure the formation of the following competencies:

Codes of generated competencies	Names of competencies being formed
-	Own the basic principles of the engineering approach in the analysis of the processes of design and manufacture of machines.

4. Requirements and forms of current and intermediate certification

Current and intermediate certification is carried out through an oral survey during lectures on topics related to the lectures delivered at the time of the intermediate survey and test.