

INTRODUCTION TO ENGINEERING EDUCATION

ANNOTATION TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION ON

SPECIALTIES 1-70 02 01-Industrial and Civil engineering

	Full-time education
Course	1
Course	2
Lectures (hours)	16
Practical exercises (hours)	16
Credit (semester)	2
Classroom hours for the academic discipline	32
Independent work	40
Independent work	72

1. Brief content of the discipline: 1. Basic information about the specialty "Industrial and civil construction". 2. Construction - as a branch of the national economy of the Republic of Belarus. 3. Basic information about the participants in the construction process. 4. Civil, industrial and agricultural construction. 5. Basic information about building materials and engineering communications. 6. Construction workers and their training. Machines and mechanisms for the production of construction and installation works. Geodetic support in construction. 7 Industrial methods of construction of buildings and structures. 8. Erection of buildings and structures from small stone materials.

2. A student who has studied the discipline should know:

- the main stages, features and prospects for the development of the construction industry;
- the main provisions and tasks of the construction industry;
- legislative and psychological aspects of the work of a civil engineer by profession;
- the main provisions of the engineering disciplines of the curriculum in the specialty;
- structure, purpose and main content of the regulatory framework for the design and production of construction and installation works.

be able to:

- to navigate and apply in the educational process promising space-planning, constructive and organizational and technological solutions;
- rationally and purposefully use normative and technical literature in the educational process;
- effectively use in the educational process domestic and foreign experience in the development of construction equipment and construction production;
- effectively use in the educational process the acquired base of engineering knowledge obtained in the process of studying the discipline "Introduction to Engineering Education";
- systematically and effectively acquire engineering knowledge in the field of construction production.

own:

- knowledge gained as a result of studying the discipline "Introduction to Engineering Education";
- the main directions of development of construction equipment in the Republic of Belarus;
- the basics of technical and tariff regulation of labor in construction;
- basic requirements for the content of design and estimate documentation in construction;
- basic information about building materials and methods of construction and installation works.

3. Academic competencies:

SK-1. Apply the procedure for the development and implementation of technical legal acts, the laws of the Republic of Belarus regulating activities in the field of assessing the quality of products and services in the field of construction.

4. Current and intermediate attestation of students is carried out to determine the compliance of the results of their educational activities with the requirements of educational standards of higher education. The form of intermediate certification is a colloquium and problem solving. The form of the current attestation of students is a test. The offset is carried out in writing.