

DESIGN FEATURES OF POTENTIALLY DANGEROUS OBJECTS

COURSE SYLLABUS ABSTRACT

Specialty: 6-05-0716-03 Information and measuring instruments and systems

Concentration: Information systems and technologies of non-destructive testing and diagnostics

	STUDY MODE	
	full-time	Part-time (shortened program)
Year	3	3
Semester	5	5
Lectures, hours	34	6
Practical classes (seminars), hours	16	4
Exam, semester	5	5
Contact hours	50	10
Independent study, hours	58	98
Total course duration in hours / credit units	108/3	

1. Course outline. The academic discipline is aimed at the student acquiring knowledge about the design of hazardous production facilities, their classification and operating features, studying the regulatory and legal documents that determine their design and operation.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know: the law of the Republic of Belarus “On industrial safety of hazardous production facilities”; classification and procedure for registration of hazardous production facilities; characteristics of hazardous production facilities, design features and control zones of hazardous production facilities; regulatory documents defining the conditions for the safe operation of potentially hazardous industrial facilities;

be able to: correctly classify hazardous production facilities; identify the most dangerous elements of hazardous production facilities based on an analysis of their design features; use regulatory documents defining the safe operation of hazardous production facilities, choose the right method of measurement and control;

to possess a skill: rational choice of methods for calculating the strength characteristics of the main elements of potentially dangerous objects; application of information processing methods when monitoring and diagnosing industrial facilities; application of methods for calculating the strength of the main structural elements of objects.

3. Competencies. Be able to identify the most dangerous elements of objects based on an analysis of their design features.

4. Requirements and forms of midcourse evaluation and summative assessment. exam (written form). To be admitted to the exam, the student, in accordance with the curriculum, is required to complete and defend practical assignments, as well as intermediate tests.