

Protection of the population and objects from emergency situations.

Radiation safety

ANNOTATION

**THE CURRICULUM PROGRAM OF THE INSTITUTION OF
HIGHER EDUCATION**

for the specialty 1–53-01-05 Automated electric drives

for the specialty 1-54 01 02 Methods and instruments for quality control and diagnostics of the state of objects

	Form of higher education	
	Full-time (daytime)	Full-time (daytime)
	specialty 1–53-01-05	specialty 1-54 01 02
Well	1	1
Semester	1	1
Lectures, hours	34	34
Laboratory classes, hours	16	16
Report, semester	1	1
Classroom hours per academic discipline	50	50
Independent work, hours	58	58
Total hours per academic discipline /	108/3	

1. Brief content of the discipline

Theoretical foundations of human life safety. Brief description of emergency situations. Emergency prevention and response. Actions of governing bodies, forces of the State Emergency Service, Civil Defense, the population in emergency situations. Physical nature and sources of radiation hazard. Fundamentals of radiation safety of living organisms. The catastrophe at the Chernobyl nuclear power plant and its consequences for the Republic of Belarus Measures to protect the population from ionizing radiation.

2 Learning outcomes

know:

- theoretical foundations for ensuring the safety of human life in modern conditions, taking into account the profile of professional training;
- the content of measures to prevent emergency situations;
- the procedure for providing first aid to victims in emergency situations;
- the procedure for providing psychological self- and mutual assistance to victims in emergency situations;
- the content of measures to ensure the sustainability of the functioning of organizations in the face of dangers and in emergency situations of a natural and man-made nature, dangers arising (arising) during military operations or as a result of these actions;
- the structure, tasks, functions and capabilities of the State System for the Prevention and Elimination of Emergency Situations and Civil Defense.
- fundamentals of radiation safety of a person and his survival in conditions of radioactive contamination.

be able to:

- use methods of forecasting, assessment of the situation in emergency situations and take measures to prevent them in their areas of work;
- act correctly in emergency situations and make appropriate decisions;
- survive in emergency situations of a natural and man-made nature, dangers arising (arising) during the conduct of hostilities or as a result of these actions;
- organize work to ensure safety in emergency situations;
- use personal protective equipment;
- work with chemical, dosimetric and environmental control devices, as well as with other equipment used in the surveillance and laboratory control network.

own:

- skills to carry out measures to prevent emergency situations;
- skills to take measures to ensure the sustainability of the functioning of organizations in emergency situations of peacetime and wartime.

3. Formed competencies

Codes generated competencies	Names of competencies being formed
	specialty 1–53-01-05 Automated electric drives
БПК - 4	Know how to protect the population and objects in emergency situations and radiation danger.
	specialty 1-54 01 02 Methods and instruments for quality control and diagnostics of the state of objects
БПК - 18	Be able to identify hazardous production factors and measures to protect against them in a particular environment. production..

3. Requirements and forms of current and intermediate certification

The following forms are used to diagnose competencies:

- written
- oral - written;

To assess the level of knowledge of students, the following diagnostic tools are used:

- tests;
- Written reports on laboratory work, with their oral defense;
- assessment based on the module-rating system;
- offsets.