

Protection of the population and facilities from emergency situations. Radiation safety
annotation
TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION
for the specialty
Cars, tractors, mobile technological complexes
profiling
Computer Engineering

	The form of higher education
	Full-time (full-time)
Course	1
Term	1
Lectures, hours	16
Practical exercises, hours	16
Course Credit,	1
semester	32
Classroom hours per academic discipline Independent work, hours	76
Total hours of academic discipline / credits	108/3

1. Summary of the academic discipline

Theoretical foundations of human life safety. Brief description of emergency situations. Emergency prevention and response. Actions of the governing bodies, the forces of the State Emergency Service, civil Defense, and the population in an emergency. The physical nature and sources of radiation hazard. Fundamentals of radiation safety of living organisms. The disaster 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

to know:

- theoretical foundations of ensuring the safety of human life in modern conditions, taking into account the profile of professional training;
- the content of emergency prevention measures;
- 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 conditions of hazards and in emergency situations of a natural and man-made nature, hazards arising (arising) from military operations or as a result of these actions;
- the structure, tasks, functions and capabilities of the State Emergency Prevention and Response System and Civil Defense.
- fundamentals of human radiation safety and its survival in conditions of radioactive contamination.

be able to:

- use methods of forecasting, assessing the situation in emergency situations and take measures to prevent them in their areas of work;
- to act correctly in emergency situations and make appropriate decisions;
- to survive in emergency situations of a natural and man-made nature, hazards arising during the conduct of military operations 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 monitoring and laboratory control network.

have the skill to:

- carry out emergency prevention measures;
- implementation of measures to ensure the sustainability of the functioning of organizations in emergency situations of peacetime and wartime.

3. Emerging competencies

Names of formed competencies
Apply basic methods of protection and behavior in emergency situations of a natural and man-made nature and radiation hazard

4. Requirements and forms of current and interim certification

The following forms are used to diagnose competencies:

- oral;
- written;
- oral and written.

The following diagnostic tools are used to assess the level of knowledge of students:

Current certification

- laboratory work

Intermediate certification

- oral tests (oral form).