

SOURCES AND RECEIVERS OF RADIATION IN NON-DESTRUCTIVE TESTING
(name of the discipline)

ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-54 01 02 Methods and instruments for quality control and diagnostics of the state of objects
Direction of specialty Specialization 1-54 01 02 02 - Non-destructive testing of materials and products

	Form of higher education
	Full-time (daytime)
Well	3
Semester	6
Lectures	50
Practical (seminar) classes	16
Laboratory works	16
Exam	6
Classroom hours for the academic discipline (including hours for managed independent work)	82 (14)
Independent work	26
Independent work	108/3

1 Brief content of the discipline

The academic discipline deals with the theoretical foundations of physical phenomena, on which the construction of various sources and receivers of radiation used in non-destructive testing and technical diagnostics is based.

2. Learning outcomes

- know the principle of operation, the main characteristics and typical designs of sources and receivers of radiation used in non-destructive testing, environmental control and technical diagnostics, standard methods for measuring the parameters of sources and receivers of radiation;
- be able to calculate and measure the characteristics of sources and receivers of physical radiation, use sources and receivers of radiation in practical tasks of non-destructive testing;
- have practical skills in working with sources and receivers of radiation of various physical nature

3. Formed competencies

BOD-13. Be able to use sources and receivers of radiation in practical tasks of non-destructive testing

4. Requirements and forms of current and intermediate certification.

To assess knowledge, intermediate certification is used in the form of a test and current certification is used in the form of an exam. To be admitted to the exam, the student must complete and defend all laboratory work on time.

