RADIATION DOSIMETRY

ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Speciality1-54 01 02 - Methods and instruments for quality control and diagnostic sobject states

	Form of higher education education
	Full-time (daytime)
Well	**3**
Semester	6
Lectures, hours	34
Practical (seminar) lessons,watch	-
Laboratory classes, hours	16
Classroom examination (semester, hours)	-
Coursework, semester	-
Course project, semester	-
Report, semester	6
Exam, semester	-
Classroom hours per academic discipline	50
Independent work, hours	58
Total hours per academic discipline / credit units	108/3

1. Brief content of the discipline. The discipline introduces students to the physical principles of radiation dosimetry, reveals the general patterns of physical processes occurring in dosimetric detectors, establishes relationships between the detector signal and the characteristics of the radiation field.

2. Learning outcomes:
know: a modern electronic database of dosimetric and radiometric monitoring devices, the essence and features of physical phenomena occurring in detectors for detecting ionizing radiation, as well as their units of measurement, ways to improve the metrological characteristics of methods and means of monitoring the radiation situation.
be able to: develop equipment for control, develop technology dosimetric and radiometric control of materials and products, metrological support of technical means, to monitor the radiation situation.
own: ability rational choice funds dosimetric and radiometric control, universal technical means of dosimetriccontrol, methods processing information at conducting dosimetric control.

3. Competences to be formed: SC-21 "To be able to carry out the technical process of control by penetrating substances"

4. Requirements and forms of current and intermediate certification: Test. To be admitted to the test, the student must successfully complete two tests, one for the module of the academic semester, as well as complete and defend all laboratory work.