Speciality "General Medicine"

ACADEMIC DISCIPLINE
"RADIATION AND ENVIRONMENTAL MEDICINE"
of the Medical and preventive module

Academic discipline outline	"Radiation and Environmental Medicine" is an academic discipline, containing systematized scientific knowledge about the impact of environmental factors, including ionizing radiation, on the health of the population and the formation of radiation- and environmentally induced pathologies.
Resulting skills	Basic professional competence. To use knowledge about the risks of developing and the pathogenetic mechanisms underlying radiation- and environmentally induced pathology, and to apply methods of individual and population-based prevention of diseases and pathological conditions caused by chronic low-dose physicochemical and biological exposure.
Learning outcomes	A student must: **know:** the principles of humanism, compassion, restraint, professionalism, confidentiality, and tolerance that underlie the professional activities of healthcare professionals; the basic concepts of ionizing radiation and the principles of radiation exposure to the population due to exposure to natural and man-made sources of ionizing radiation, as well as methods for reducing it; the causes and mechanisms of the impact of natural and anthropogenic environmental factors on human health; modern methods of diagnosing diseases using sources of ionizing radiation; the principles of promoting a healthy lifestyle and rational behavior in an ecologically destabilized environment; a set of measures to protect the population during radiation accidents; **be able to:** enforce confidentiality standards for patients and their families during diagnostic and therapeutic radiological procedures; assess radiation doses for different categories of exposed individuals during normal operation of ionizing radiation sources and in the event of a radiation accident; **master:**

	methods for minimizing the negative impact of personal and social circumstances on the behavior of healthcare workers in the performance of their duties; methods for reducing radiation doses to the population exposed to radiation; skills for protecting workers and the public from the possible consequences of accidents, disasters, and natural disasters; methods for determining the scope of diagnostic measures in the event of radiation exposure to different categories of the population.
Semester(s)	4,5 semesters
Prerequisite	Radiological diagnostics and radiation therapy Internal diseases Occupational diseases Pediatrics
Credit value	6 credits
Academic hours	216 academic hours, of which: 86 class hours
Forms of midterm attestation	Test Examination