Speciality "General Medicine"

ACADEMIC DISCIPLINE "DISASTER MEDICINE"

Academic discipline outline	Introduction to disaster medicine: taxonomy end legislation. National disaster response systems. Medical evacuation and logistics. Triage. First aid to victims of disasters. Public health during disasters. Bioterrorism and biological weapon. Chemical warfare agents. General approach for diagnostics and treatment of acute poisonings. Nerve agents. Cytotoxic substances. Lung-toxic substances. Irritating substances. Substances with general toxic effect. Hazardous chemicals and technical liquids. Natural poisons. Damaging factors of nuclear weapon. Personal protective equipment. Collective protection means. Antidotes and radioprotective drugs. Medical intelligence. Chemical assessment. Decontamination. Portative equipment for artificial breathing and supplemental oxygenation.
Resulting skills	Specialized skills. To organize and provide medical care in emergency situations.
Learning outcomes	A student must: **know:** medical and tactical characteristics of man-made and natural emergencies; tasks and organizational structure of the state emergency prevention and response system; fundamentals of the organization of medical evacuation support for victims in emergency situations; basic techniques for providing medical care to victims of injuries, poisoning, and critical conditions in the affected areas; the basics of organizing the work of medical units and healthcare organizations in emergency situations; fundamentals of the organization of sanitary and hygienic and anti-epidemic measures in emergency situations; medical means of protection against radiation and chemical damage; fundamentals of the organization of medical intelligence at the stages of medical evacuation; fundamentals of radiation and chemical situation assessment; fundamentals of the organization of special treatment at the stages of medical evacuation; pathogenetic mechanisms and clinical manifestations of

	lesions caused by toxic and highly toxic substances; damaging properties of chemical warfare agents; main characteristics and requirements for protective structures; classification and principles of operation of personal protective equipment; **be able to:** to organize medical triage and medical care to victims of an emergency at the pre-hospital stage and participate in their implementation; deploy a special treatment site at the medical evacuation stage and organize its work; use personal protective equipment; use chemical intelligence tools; use military means of radiation intelligence, radiometric and dosimetric control; apply partial decontamination means; diagnose damage caused by toxic and highly toxic substances; provide medical care in case of poisoning by highly toxic substances; **master:** methods of providing medical care to victims of life-threatening emergencies at the prehospital stage; the method of indicating toxic substances using standard chemical intelligence tools; the methodology of radiometric and dosimetric control; skills in the use of medical means of protection against radiation and chemical damage; the skills of using modern means of prevention of lesions and treatment of acute poisoning.
Semester(s)	6 semester
Prerequisite	First aid Medical and biological physics Radiation and environmental medicine
Credit value	3 credits
Academic hours	90 academic hours, of which: 48 class hours
Forms of midterm attestation	Test