



Erasmus Module
**Protection in Chemical, Biological,
 Radiological and
 Nuclear Events**
 Description

Vasil Levski National Military University
 Doc.: ES/2018/08
 Date: 09-08-2018
 Origin: BG VELIKO02

Country BULGARIA	Institution "Vasil Levski" National Military University	Module Protection in Chemical, Biological, Radiological and Nuclear Events	ECTS 5.0
Service All	Minimum Qualification for Lecturers		
Languages English, Bulgarian	<ul style="list-style-type: none"> English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG 6001 Level 2. Adequate pedagogical competences and experience. Thorough knowledge of the topic taught. 		
Prerequisites for international participants: <ul style="list-style-type: none"> English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. Minimum of 2 years national (military) higher education. Basic knowledge of current national and international security issues. 		Goal of the Module: <ul style="list-style-type: none"> Thorough knowledge of the CBRN threats. Adequate knowledge of CBRN protection. Thorough knowledge of the topic taught and/or operational experience. 	

Learning outcomes	Knowledge	<ul style="list-style-type: none"> Dangers of radiation, biological agents and toxic chemicals. Situations triggered by CBRN agents and protection of the population from them. Basic knowledge of the CBRN threats in conflicts. Knowledge of the CBRN devices and basic principle to use them.
	Skills	<ul style="list-style-type: none"> Inform peers about the key aspects of the CBRN threats. Ability to analyse changes within the CBRN environment. Explain the dangers of CBRN weapons. Understanding the CBRN devices to detection, physical protection and decontamination.
	Competences	<ul style="list-style-type: none"> Ability to contribute to the counterinsurgency decision making process. Apply and analyse available information relating to developing CBRN threats. Using of the CBRN protection clothes and gas masks, detection of CBRN agents and their decontamination.



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Verification of learning outcomes

- **Observation:** Throughout the Module students are to accomplish different practical tasks individually or in teams. The Module has a two phases. During these tasks students are to be evaluated to verify their competences at the end of each phase.
- **Test:** In end of the course, students have to pass a test with some questions about the topics.

Module Details		
Main Topic	Recommended WH	Details
Phase I		
Chemical weapon	4	<ul style="list-style-type: none"> • Types of chemical weapons • Properties of chemical weapons. • Dangerous impact of chemical weapon agents. • Defense against chemical weapons.
Biological weapon	2	<ul style="list-style-type: none"> • Types of Bioterrorist events • Biological agents • Protection from biological agents
Radiological weapon	2	<ul style="list-style-type: none"> • Radiological devices. • Radiological Weapons' Striking Effect. • Defense against radiological devices.
Nuclear weapon	4	<ul style="list-style-type: none"> • Nuclear devices. • Nuclear Weapons' Striking Effect. • Defense against nuclear weapon.
Practical of Phase I	12	<ul style="list-style-type: none"> • Toxic industrial materials detection. • CBRN agents' detection and identification and tank stores. • Detection of ionizing radiation.
Phase II		
Gas masks and protection clothes	2	<ul style="list-style-type: none"> • Types of Gas masks and protection properties. • One-off and multiple protection clothes.
CBRN decontamination	2	<ul style="list-style-type: none"> • Decontamination approaches. • Decontamination solutions.
Practical of Phase II	12	<ul style="list-style-type: none"> • Collective equipment for protection against nuclear and chemical hazardous events. • Using of the protective equipment • Preparing CBRN decontamination solutions • Working with Decontamination devises



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Additional hours to increase the learning outcomes		
Case Studies and Discussions	5	<ul style="list-style-type: none">• To illustrate the asymmetric conflicts with appropriate examples.• Each case study comprises a description of a situation followed by questions.
Self-Study	15	<ul style="list-style-type: none">• Enhancing knowledge by studying specific documents.• Reflection of the topics issued.
Total	50	