

## SYLLABUS 2019/2020

Level of study	Master's Course		
Course title in Polish			
Course title in English	Civil Protection		
Course code		ECTS credits	2
Lecturer(s)	PhD. Levitska E.G. Email address: <a href="mailto:fftkafe@i.ua">fftkafe@i.ua</a> ;		

Course objectives (learning outcomes)	The purpose of studying the discipline is to create the students the ability to think creatively, solve complex problems, have an innovative character and make productive decisions in the field of civil defense, taking into account the peculiarities of the future professional activities of graduates, as well as achievements of scientific and technological progress.
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### Prerequisites:

Knowledge	Knowledge of a range of responsibilities in the direction of professional activity, taking into account the tasks of the Civil Protection
Skills	Independent creative thinking.
Courses completed	The bachelor of physics or applied physics.

### Learning effects:

	Learning effects of of the course	Relation of the learning effects to the specialization
Knowledge	<p><b>W01</b> The characteristics of the lesion cells that arise in extraordinary conditions of peace and wartime.</p> <p><b>W02</b> Methods and means of protecting the population from astonishing factors, accidents, catastrophes, consequences of natural disasters and modern weapons of mass destruction;</p> <p><b>W03</b> The procedure of the forces of the civil protection and the population in conditions of extraordinary circumstances;</p> <p><b>W04</b> The purpose and procedure of work with radiation and chemical exploration devices, dosimetric control;</p> <p><b>W05</b> A method for predicting a possible radiation, chemical (bacteriological) biological situation;</p> <p><b>W06</b> The basis of organization and implementation of measures for the provision of assistance to victims and life support of the population in the event of the emergence of the National Assembly.</p>	W01 –W10

	Learning effects of the course	Relation of the learning effects to the specialization
Skills	<p><b>U01</b> Practically implement measures to protect the population from the consequences of accidents, catastrophes, consequences of natural disasters and modern weapons of mass destruction.</p> <p><b>U02</b> To assess the radiation, chemical biological situation.</p> <p><b>U03</b> Manage the formation of training and carrying out rescue and other urgent works on the object of economic activity in accordance with the future specialty.</p>	U01 –U07

	Learning effects of the course	Relation of the learning effects to the specialization
	<b>K01.</b> A student has the creativity and the ability to conceptual thinking. <b>K02</b> A student is able to present and justify the personal point of view. <b>K03</b> A student is able to use the information technologies for the communication with the scientific community. <b>K04</b> A student is aimed to expand personal knowledge and skills. <b>K05</b> A student has the legal erudition. <b>K06</b> A student concerned about the environmental safety of physical experiment.	K01 –K06

### Course organization:

Form of classes	Lecture (W)	Group-exercises									
		A (large group)		K (small group)		L (Lab)		S (Seminar)		P (Project)	
Contact hours	6			12							
Semester	1										
Language	Ukrainian, English										

### Teaching methods:

Classes will be performed in tutorial system on a weekly basis using multimedia presentation and internet in a form of the lectures open for discussion and questions.  
 In-class exercises are designed to probe knowledge developed through this process, with emphasis on how well students have understood the underlying mathematical and physical ideas.  
 The students will prepare one individual presentation.

### Assessment methods:

	E – learning	Didactic games	Classes in schools	Field classes	Laboratory tasks	Individual project	Group project	Discussion participation	Student's presentation	written assignment (essay)	Oral exam	Written exam	Test
W01						x	x	x					x
W02						x	x	x					x
W03						x	x	x					x
W04						x	x	x	x				x
W05						x	x	x					x
W06						x	x	x					x
U01						x	x	x					x

U02						X	X	X					X
U03						X	X	X					X
K01						X		X	X				X
K02						X	X	X					X
K03						X	X	X	X				X
K04						X	X	X					X
K05						X	X	X					X
K06						X	X	X					X

#### Assessment criteria:

Grades	<p>The grading scale will be as follows:</p> <p>90 – 100 % - <b>A</b> including <b>A- excellent</b> (eq. in Ukraine: відмінно (very good))</p> <p>82–89 % : <b>B</b> including <b>B – very good</b> (eq. in Ukraine: добре ( good))</p> <p>74–81 %: <b>C</b> including <b>C – good</b> (eq. in Ukraine: добре ( good))</p> <p>64–73 %: <b>D</b> including <b>D – satisfactory</b> (eq. in Ukraine: задовільно (satisfactory))</p> <p>60–63 %: <b>E</b> including <b>E – acceptable</b> (eq. in Ukraine: задовільно (satisfactory))</p> <p>&lt; 59 %: <b>F failed</b> (eq. in Ukraine: незадовільно (unsatisfactory))</p>
Criteria	<p><b>A.</b> A student knows all terms and concepts mentioned in W1-W4, U1- U4 and K1-K4. A student can work without any assistances, his/her knowledge's are creative and easily applied to decision of specific problem.</p> <p><b>B.</b> A student knows all terms and concepts mentioned in W1-W4, U1- U4 and K1-K4, yet needs a little help when decision of specific problem.</p> <p><b>C.</b> A student knows all terms and concepts mentioned in W1-W4, U1- U4 and K1-K4, however needs a help when decision of specific problem.</p> <p><b>D.</b> A student knows the most of terms and concepts mentioned in W1-W4, U1- U4 and K1-K4 and has difficulty in decision of specific problem.</p> <p><b>E.</b> A student knows only several terms and concepts mentioned in W1-W4, U1- U4 and K1-K4 and can solve only a simple problem.</p> <p><b>F.</b> A student does not know most of terms and concepts mentioned in W1-W4, he/she did not reach the satisfactory level of knowledge this course.</p>

#### Course content (topic list):

Topics	<p><b>W1.</b> Civil protection in modern conditions.</p> <p><b>W2.</b> Monitoring hazards that can cause NA.</p> <p><b>W3.</b> Civil defense planning. Methodology of preparation and conducting of classes, development of a plan-abstract for conducting classes with the Central Committee.</p> <p><b>W4.</b> Forecasting of the situation and planning of protection measures in areas of radioactive, chemical and biological contamination. Protective structures of the Central Park. Means of individual protection of the population</p> <p><b>W5.</b> Protecting the population in emergencies.</p> <p><b>W6.</b> Estimation of the engineering environment and socio-economic consequences of the National Assembly.</p> <p><b>W7.</b> Ensuring measures and actions within the framework of a single system of civil protection. The concept of providing medical care to the population in the conditions of the NA.</p> <p><b>W8.</b> Fundamentals of organization of carrying out of measures on providing assistance to victims and life support of the population in the National Assembly, Functions in the field of civil protection.</p>
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## Literature:

Compulsory reading	<p>1. Bykova O.V. Boliyev O.V., Derevinsky D.M., Yelisseyev V.N., Mironets S.M., Osipenko S.I., Piven Yu.O. and so on. Fundamentals of Civil Protection: Teach. manual K: 2008.- 223 p.</p> <p>2. Vasilychuk V.O., Goncharuk V.E., Kachan S.I., Mokhnyak S.M. Fundamentals of Civil Protection: Teach. manual / Lviv, 2010. 384 p.</p> <p>3. Goncharuk V.E., Kachan S.I., Orel S.M., Pucilo V.I., "Assessment of the situation in emergency situations". Textbook, Publishing House, Lviv Polytechnic National University. Lviv, 2004, - 136s.</p> <p>5. Mikhailuk V.O. Civil Protection: A Tutorial. Part 3: Civil Defense. - Mykolayiv: UDMTU, 2002.- 155 p.</p> <p>6 Mikhailuk V.O., Khmelmuradov B.D. Civil Security: Teaching. manual. - K: Center for Educational Literature, 2008. - 158 p.</p> <p>7. Osipenko S.I., Ivanov A.V. "Organization of functional training in the field of civil protection". Tutorial. -K., 2008. -286p.</p> <p>8. Rusalovsky A.V., Vendychansky V.N. Civil protection: Teaching Pos. / For Sciences. Zaporozhtsa O.I., -K.: AUM, 2008, -250 c.</p> <p>9. Suslo S.T., Zaplatinsky V.M., Haramda G.M. Civil protection: Teaching manual / For ed. prof. M.O. Bilyakovicha. - K.: Ariste, 2007. 386 pp.</p> <p>10 Samknulov V.I. Civic defense. Tutorial. Odessa: Legal Literature, Odessa National Jurassic Academy, 2004, -120s.</p> <p>11. Mltsenko I.M., Mezentseva O.M. Civil defense.-Chernivtsi: Books XXI, 2004.-404s.</p>
Recommended reading	<p>1. Civilian Handbook / G.G. Mirovich, CJSC "Ukrainian Technological Group". K. - 1998. - 526s.</p> <p>2. Kovalenko I.V., Muzhik I.S., Civil Defense. Educational manual / Ed. Kashin P.I. - Lviv, "P.P. Vasilyevich K.I.", 2005-338 p.</p> <p>3. Methodological instructions from the course "Civil defense" for students of the Master's degree in full-time education / UL: O.I. Babenko, R.I. Cranny - K.: KDEU, 1997. -136 p.</p> <p>4. Norms of radiation safety of Ukraine (NRBU-97). - Kyiv: Department of Polygraphy of the Ukrainian Center for State Surveillance of the Ministry of Health of Ukraine, 1998. - 125 p.</p>

## Estimation of the total working time of students:

Contact hours	Lectures	18
	Seminars	
	Other (consultation, meetings)	12
Students' work hours (without the lecturer)	Reading books and preparation for the lectures	5
	Preparation to the seminar	
	Preparation of an individual presentation	5
	Preparation to the test	10
Total works' hours		50
1 ECTS = 25 h		2