

**Odessa National Medical University**  
**Faculty of Pharmacy**  
**Department of Disaster Medicine and military medicine**

**Silabus**  
**in the Discipline "Extreme Medicine"**

<b>Volume</b>	3 credits ECTS, 90 hours
<b>Semester, year of study</b>	5 semester 2020-2021 y.
<b>Days, time, place</b>	Department of Disaster Medicine and military medicine, str. Pyrohovskaja, 2 floor Days and times – according to the class schedule
<b>Teacher (s)</b>	Prof. Kononenko V.V., associate professor Panchenko O.E., associate professor Bryancev P.A. as. Basyuk V.S., as. Tretjak O.M.
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<b>Workplace</b>	Department of Disaster Medicine and military medicine
<b>Consultations</b>	Department of Disaster Medicine and military medicine

**COMMUNICATION**

Communication with students will be carried out at face-to-face meetings (lectures, practical classes, training sessions).

Classes are held at the Department, according to the schedule.

Under quarantine conditions, classes will be held on the MTeams or Zoom platform, Viber.

Days of working off missed classes are Thursday and Saturday.

Admission of students on personal issues:

– Head of the Department-Thursday from 14.00 to 15.00;

- Head teacher of the Department – Tuesday from 14.00 to 15.00

**COURSE ABSTRACT.**

The subject of the discipline is extreme medicine.

**Prerequisites:** " Extreme Medicine "as an academic discipline is based on students' study of the organization and economics of pharmacy, pharmacy technology of medicines, Pharmaceutical and analytical chemistry, human anatomy and physiology, general surgery and patient care and integrates with these disciplines.

**Postrequiziti:** lays the foundations of theoretical knowledge and practical skills on the organization and conduct of medical evacuation, sanitary-hygienic and anti-epidemic measures in emergency situations, on the provision of first aid; military toxicology and radiology, Epidemiology and hygiene, organization and management of Health, which provides for the integration of teaching with these disciplines and

the formation of skills and application of knowledge of emergency medicine in the process of further training and professional activities.

**The purpose of the course** – the purpose of studying the academic discipline “Extreme Medicine” is to prepare students of the specialty “pharmacy” to perform their functional duties in extreme conditions of emergencies in peacetime and wartime, to acquire knowledge and skills in organizing medical support for the population in peacetime and wartime, when eliminating the consequences of emergencies.

### **Main tasks:**

The academic discipline " Extreme Medicine "is intended for masters of specialty 226"pharmacy, Industrial Pharmacy". The discipline belongs to the normative disciplines and provides for providing participants with the necessary competence in organizing medical support for the population in peacetime and wartime emergencies, forming the ability to analyze and assess dangerous situations

### **Expected results:**

Students should know:

- \* requirements of the legislation of Ukraine in the field of protection of the population and territories from emergency situations;

- \* impact of the damaging factors of modern weapons and emergency situations on human health and the organization of medical care;

- \* normative legal acts defining the organization and operation of the State Emergency Service (SES)

- \* features of the organization of medical and evacuation support for the affected population in emergency situations of various origins

Students should be able to:

- provide first aid to victims in extreme situations and emergencies;

- to act socially responsible and civilly conscious.

- to realize their rights and obligations as a member of society, to realize the values of civil(free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine;

- make decisions on the use of protective equipment against hazards in case of extreme situations.

## **COURSE DESCRIPTION**

### ***Forms and methods of training***

The course will be presented in the form of lectures (10 hours.), practical (20 hours.) classes, Organization of independent work of students (60 hours.).

### ***Training methods***

The main forms of classes in the academic discipline "Extreme Medicine" are lectures, practical classes and independent work of students. When teaching the

discipline, the following teaching methods are used: lectures, explanations, narration, demonstration of presentations, conversation, analysis of new information, performing individual tasks.

***Content of the academic discipline***

<b>Section 1. Civil Protection as a system for preventing and eliminating the consequences of emergency situations</b>
1. Organization of protection of the population and territories in emergency situations. Legal basis of the State Emergency Service.
2. Natural, man-made and socio-political emergencies, their medical and sanitary consequences.
3. Accidents at radiation-hazardous facilities, their medical and sanitary consequences.
4. Accidents at chemically hazardous facilities, their medical and sanitary consequences.
<b>Section 2. Organization of medical support for the population in emergency situations</b>
5. Pre-medical care for victims of emergency situations.
6. Organization of medical and evacuation support for the population in emergency situations.
7. Organization of sanitary-hygienic and anti-epidemic support of the population in emergency situations.
8. Information support, work planning and medical supply of formations and institutions of the state emergency service.

***List of recommended literature***

Basic literature:

1. Constitution of Ukraine, 1996 (Art. 3, 16, 49, 50, 106, 138).
2. Law of Ukraine “fundamentals of legislation of Ukraine on healthcare”, 1992 (article 37).
3. Law of Ukraine “on the legal regime of the state of emergency”, 2000 (1, 4-9, 13, 16, 27-29).
4. Law of Ukraine “on Civil Defense of Ukraine”, 1999 (Articles 1, 3-6, 8-13).
5. Law of Ukraine “on emergency services”, 1999 (articles 1, 3, 4, 6, 24, 29-31, 33, 36, 37).
6. law of Ukraine “on protection of the population and territories from man-made and natural emergencies " ” 2000 (art. 3-8, 11, 13-15, 21-23, 25-28, 30, 32-36)

7. Law of Ukraine “on the zone of environmental emergency”, 2000 (articles 1-7,10-15).
8. Law of Ukraine “on the state material reserve”, 1997 (articles 1-3,6,12).
9. Law of Ukraine "on the legal basis of civil protection", 2004 (art. 2-7,9-16,18-26,27-28,34-36,88-89,91-93,96)
10. law of Ukraine “on radioactive waste management”, 1995 (art. 1,3,7-9,11,17-19,28).
11. resolution of the Cabinet of Ministers of Ukraine No. 174 of February 16, 1997 “on the state commission on technogenic and environmental safety and emergency situations.”
12. resolution of the Cabinet of Ministers of Ukraine No. 827 of 11.07.2001 “ on approval of the regulations on the state service of Disaster Medicine”.
13. resolution of the Cabinet of Ministers of Ukraine No. 308 of March 29, 2001 “on the procedure for creating and using material reserves for the prevention and elimination of man-made and natural emergencies and their consequences”.
14. resolution of the Cabinet of Ministers of Ukraine No. 192 of February 15, 1999 “on approval of the regulations on the organization of notification and communication in emergency situations”.
15. resolution of the Cabinet of Ministers of Ukraine No. 2303 of 16.12.1999 “ on the creation of a government information and analytical system on emergency situations”.
16. resolution of the Cabinet of Ministers of Ukraine No. 368 of March 24, 2004 “on approval of the procedure for classifying man-made and natural emergencies by their levels”
17. Order of the Ministry of health of Ukraine No. 189 of August 3, 2000 “on approval of the regulations for providing information in the functional subsystem of the Ministry of health of Ukraine within the Government Information and analytical system on emergency situations”
18. order of the Ministry of health of Ukraine No. 165 of May 3, 2001 “on creation of reserves of medicines and medical devices for the prevention and elimination of man-made and natural emergencies”
19. Order of the Ministry of health of Ukraine No. 429 of October 26, 2001 “on approval of the approximate Charter of the territorial emergency medical care center”
20. order of the Ministry of health of Ukraine No. 148 of 22.03.2004 “on measures to implement the provisions of the Bologna declaration in the system of higher medical and Pharmaceutical Education”.

21. pre-medical care: textbook-method. manual. for higher medical (pharmaceutical) institutions. Approved by the Ministry of Health / O. F. Kozlova. - K., 2017. - 49 p., Il., soft obkl.
22. first aid: a textbook for medical teachers., colleges, academies, and nursing institutes. — 4th ed., VIPR. approved by the Ministry of Health / Petrichenko T. V. — K., 2018. - 272 P.
23. emergency medical care for military personnel at the prehospital stage in conditions of armed conflicts, edited by Professor M. I. Badyuk, textbook, – Kiev. – 2018 - 203 P.
24. Biosafety, practical adviser, edited by academician of the National Academy of Medical Sciences of Ukraine, doctor of Medical Sciences, Professor V. M. Zaporozhan, doctor of Medical Sciences, Professor M. I. Badyuk, Odessa, Onmedu – 2018 – 431 P.
25. emergency medical care, a textbook for students of higher medical institutions of III-IV accreditation levels, edited by Prof. M. I Shved, (Gudyma A. A.), Ternopil: Ukrmedkniga, 2015, 420 p.

#### Additional literature:

1. planning of medical support for the population of an administrative territory in emergency situations. Methodological recommendations / ed.by V. A. Voloshin – Kiev, 2000 – 102 P.
2. International Humanitarian Law / ed.by Bazovaya V. P. – K., “Varta” – 2000 – 176 P.
3. medical supply of formations and institutions of the state service of Disaster Medicine of Ukraine. Methodological recommendations / ed.by Kartysh A. P. – K.: 1999, - 158 P.
4. Gridasov V. I., Kovalev V. M., Katris M. V. et al. Medicine of catastrophes / textbook – Kharkiv.: "Golden Pages". 2002. 280 p. (in Russian)
5. Vorobyov O. A., Kardash V. E. Medicine of catastrophes / textbook. - Chernivtsi. – 2000. – 152 P.
6. Organization of work of the information and analytical system of the Ministry of health of Ukraine on emergency situations (Practical Guide) / Ministry of health of Ukraine, Ukrainian SPC of emergency medical care and Disaster Medicine / ed. by Prof. Voloshina V. A. – 2000, - 96 P.
7. Organization of medical support for troops/ edited by Prof. Paska V. V. – K., MP "Lesya", 2005, p. 128 - 140;
8. Disaster Medicine. Textbook / ed. by Prof. Cochin. Moscow: zdorovye publ., 2001, 290 P.

## **Evaluation**

### **Current control methods**

Current control is carried out in practical classes in the form of an oral survey, written works or test tasks. The results of the current control are displayed in the log of training sessions on a 4-point scale-ratings "5", "4", "3", "2". At the end of studying the discipline, current academic performance is calculated as the average current score, that is, the arithmetic mean of all current grades, rounded to two decimal places.

The knowledge of people studying at the university is evaluated on both theoretical and practical training on a four-point scale according to the following criteria::

- "excellent" - the student has firmly mastered the theoretical material, deeply and comprehensively knows the content of the discipline, the main provisions of scientific primary sources and recommended literature, thinks logically and builds the answer, freely uses the acquired theoretical knowledge in the analysis of practical material, expresses his attitude to certain problems, demonstrates a high level of assimilation of practical skills;

- "good" - the student has mastered the theoretical material well, knows the main aspects from the primary sources and recommended literature, presents it in a reasoned manner; has practical skills, expresses his thoughts about certain problems, but admits certain inaccuracies and errors in the logic of the presentation of theoretical or when analyzing practical content;

- "satisfactory – - the student has mainly mastered the theoretical knowledge of the discipline, is guided in the primary sources and recommended literature, but unconvincingly answers, confuses concepts, additional questions cause the student uncertainty or lack of stable knowledge; answering questions of a practical nature, reveals inaccuracies in knowledge, does not know enough to evaluate facts and phenomena, connect them with future activities;

- "unsatisfactory" - the student has not mastered the educational material of the discipline, does not know scientific facts, definitions, almost does not navigate in primary sources and recommended literature, there is no scientific thinking, practical skills are not formed.

### **Forms and methods of Final control**

The final control is carried out in the form of a credit. Students who have completed all types of work provided for in the curriculum and scored at least the minimum number of points are allowed to take the test.

### **Independent work of students.**

IWS topics are defined by the curriculum for the discipline.

For each topic of the IWS, the student should prepare an abstract or report on issues that are not included in the thematic plan of practical classes.

IWS assessment is carried out in the last practical lesson of the 4th and 5th semesters.

### **Course policy ("rules of the game")**

#### **Conditions for mastering the course:**

- Mandatory attendance of classes;
- Activity during practical classes;
- Preparation for classes, SRS, etc. other;
- Be tolerant, open and friendly;
- Constructively maintain feedback in all classes;
- Be punctual.

#### **Unacceptable:**

- Skipping classes for disrespectful reasons;
- Late and unauthorized departure from the classroom or lecture hall (for being late, a student is not allowed to attend a class/lecture, because he disrupts the course of the educational process. Also, for violating discipline, the student is removed from the classroom and receives "NB");
- Use of mobile phones, tablets, laptops, smart watches, etc. during practical classes and lectures;
- Violation of any rules established by the moral and ethical code of ONMedU.

**Policy regarding deadlines and retakes.** Retake of missed practical / lecture classes is carried out according to the schedule of working out of the department, to the teacher on duty. The schedule of duties of teachers of the department is posted on the information stand for students. Working out missed practical/lecture classes takes place every Thursday and Saturday.

#### **Compliance with academic integrity by applicants for Education provides for:**

1. independent performance of educational tasks;
2. references to sources of information in the case of using ideas, developments, Statements, Information;
3. compliance with copyright and related rights legislation;
4. providing reliable information about the results of their own (scientific, creative) activities, research methods and information sources used.

Unacceptable in educational activities for participants in the educational process are:

- the use of family or service connections to obtain a positive or higher grade in the implementation of any form of monitoring of learning outcomes or benefits in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-headphones, phones, smartphones, tablets, etc.) during control measures;
- passing procedures for monitoring learning outcomes by front persons.

For violation of academic integrity, applicants for education can be brought to such academic responsibility:

- \* reduced results of evaluation of test work, credit, etc.;

- \* repeated completion of the assessment (test paper, test, etc.);
- \* appointment of additional control measures (additional individual tasks, test papers, tests, etc.);
- \* repeated completion of the relevant educational component of the educational program;
- \* conducting additional verification of other works authored by the violator;
- \* deprivation of the right to participate in competitions for scholarships, grants, etc.;
- notification of the entity that finances training (conducting scientific research), the institution that issued the grant for training (research), potential employers, parents of a higher education applicant about the violation committed;
- \* exclusion from the rating of applicants for an academic scholarship;
- \* deprivation of an academic scholarship;
- \* withdrawal of tuition benefits provided by the University;
- \* University deductions.

**Attendance and delay policy.** Being late for classes and lectures is not allowed. In case of delay, the student is not allowed to enter the classroom and receives "NB" in the journal.

**Mobile devices.** The use of any mobile devices is prohibited. In case of violation of this clause, the student is removed from the lesson or lecture and receives "NB" in the journal.

**Behavior in the audience.** The student's behavior in classrooms must comply with the rules established by the moral and ethical code of the University.