

## SYLLABUS OF THE EDUCATIONAL COMPONENT TACTICAL MEDICINE

Speciality: **221 «Dentistry»**

Educational and professional program: **Dentistry**

Component code in the educational program: **EC 26**

Higher education level: **second (master's degree)**

Form of education: **full-time**

Year of study: **2**

Semester(s): **I autumn II spring**

Type of educational component: **elective**

Academic year: **2025-2026**

Volume: **2 credits ECTS (60 hours)**

Training sessions: **practical, classes, consultations**

Final control: **credit**

Prerequisites: **human anatomy, normal physiology, life safety**

Department/unit: **department of disaster medicine and military medicine**, 12 Trinklera St., academic building, 2–4 floors

Head of the educational component: **prof. Yuliia Viktorivna Volkova**

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Educational component page in the KhNMU Distance Learning System ( Moodle ):

<https://distance.knmu.edu.ua/course/management.php?categoryid=1042&view=courses&search=%D1%82%D0%B0%D0%BA%D1%82%D0%B8%D1%87%D0%BD%D0%B0%20%D0%BC%D0%B5%D0%B4%D0%B8%D1%86%D0%B8%D0%BD%D0%B0&courseid=5523>

### DESCRIPTION OF THE EDUCATIONAL COMPONENT

provides students with general knowledge about emergency actions and medical evacuation measures aimed at saving and preserving human life in emergency conditions, in cases of wounds, injuries, and damage, as well as minimizing the consequences of such conditions for a person's health. these actions are carried out at the scene by persons with higher medical education who, according to their professional duties, must possess basic practical skills for saving and preserving the life of a person in an emergency condition and, in accordance with the law, are obliged to perform such actions and measures, namely to provide medical assistance to injured and wounded persons in life-threatening conditions.

**PURPOSE OF THE COURSE:** is to develop in students the ability to diagnose emergency conditions, provide emergency medical care, and evacuate the wounded during combat operations, as well as to improve the skills and competencies acquired while studying previous disciplines.

### LEARNING OUTCOMES:

- to be able to provide pre-medical aid to wounded and injured persons in emergency situations in peacetime and in combat conditions;
- to assess the medical and sanitary situation at the site of natural and man-made emergencies;
- to assess the sanitary and epidemiological situation at the site of an emergency;
- to perform medical triage and evacuate wounded and injured persons during emergency situations.

### CONTENT OF THE EDUCATIONAL COMPONENT

#### List of lecture topics (2 hours each):

1. TCCC ASM. MARCH protocol.

#### List of practical session topics (18 hours):

1. TCCC ASM. MARCH protocol. Methods of moving the wounded. Hemorrhage control: tourniquet, hemostatic dressing, pressure bandage.
2. TCCC ASM. MARCH protocol. Basics of airway management. Rapid assessment of the

casualty's condition.

3. TCCC ASM. MARCH protocol. Methods of moving the wounded. Tourniquet application techniques.
4. TCCC CLS. Care under fire. Care in field conditions. Evacuation of the wounded.
5. TCCC CLS. Recognition of shock. Prevention of hypothermia. Head injuries. Eye injuries.
6. TCCC CLS. Care for burns. Fractures. Monitoring the casualty's condition.
7. TCCC CLS. Preparation for evacuation. Evacuation procedures.
8. TCCC. Medical documentation. Medical equipment.

**List of student independent study topics (40 hours):**

1. Organization of Prehospital Care in Combat Conditions.
2. Massive Bleeding: Control and Shock Prevention.
3. Tactics for Injuries of the Airway and Chest.
4. Evacuation of the Wounded from "Red" and "Yellow" Zones.
5. Tactical Immobilization for Fractures and Limb Injuries.
6. Tactics for Providing Care in Blast Injuries and Burns.
7. Psychological Resilience and Team Interaction.
8. Individual Medical Equipment.

Independent (self-directed) work is aimed at deepening and consolidating the theoretical knowledge acquired during classroom learning and contributes to the development of professional competencies. The results of independent work are subject to evaluation and are included in the final assessment of knowledge.

**Consultations:** online, with prior registration on the course page in the Distance Learning System.

**Teaching methods:** practical sessions using simulators, mannequins, and models (applying tourniquets, evacuating the wounded, ensuring airway patency); structured scenarios to reinforce skills under time pressure; small-group work on situational tasks and case studies (combat injuries, chemical/biological/radiological/nuclear weapon exposure, mass casualty influx); independent study and distance learning using Moodle.

## EVALUATION

**Current Learning Activities (CLA).** The assessment of students' academic performance is carried out in accordance with the Regulations on the Assessment of Academic Performance of Higher Education Students at KhNMU (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>). The grade for a practical or module test session ranges from 2 to 5 points. Late submission of assignments for non-valid reasons will result in a grade reduction proportional to the delay time. Assignments are graded within 24 hours. Grades are recorded in the electronic register. Unsatisfactory grades are retaken in accordance with the Regulations on the Procedure for Retaking Academic Classes by KhNMU Students ([https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_vidprac\\_zaniat.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf)). At the end of the semester, the average semester grade is converted into a multi-point score (70-120 points) according to Table 1 of the Assessment Regulations (see above). The arithmetic mean of the CAP for both semesters constitutes the Total Academic Performance (TAP).

**Individual tasks (IT)** are evaluated up to 10 points.

**Final control.** A prerequisite for admission to the exam is earning 70 points for TAP. The exam grade ranges from 50 to 80 points.

**Grade in subject (GS).**  $GS = TAP + IA + Exam$ .

**Appealing the results of the final control** is carried out in accordance with the procedure established in KhNMU ([https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_apel\\_kontrol.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf)).

## POLICIES OF THE EDUCATIONAL COMPONENT

**Recommendations for working on the course:** Actively participate in all forms of class activities, dedicate 1-2 hours daily to independent study and preparation for classes, ask questions during classes, attend consultations, submit assignments on time, and complete all forms of assessment.

**Attending classes.** Attendance at lectures and practical classes is mandatory. The dress code for in-person classes is a white medical coat. If you are more than 5 minutes late, you may not be admitted to the class. Missed classes are made up in accordance with the Regulations on the Procedure for Retaking Academic Classes by KhNMU Students

([https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_vidprac\\_zaniat.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf)).

**Academic Integrity.** KhNMU maintains a zero-tolerance policy towards any manifestation of academic dishonesty. Any violation of academic integrity principles will result in disciplinary action as established by KhNMU

([https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_ad-1.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf)).

**Use of electronic gadgets and artificial intelligence tools.** is permitted only with the instructor's permission.

**Policy on persons with special educational needs.** Students with special educational needs should contact the instructor to develop an individual educational trajectory.

**Teacher Response Time:** 24 hours.

### Technical Requirements for the Course:

- Access to a computer, laptop, tablet, or smartphone
- A corporate Google account with your own photo
- Proficiency with Google Workspace (Google Meet, Docs, Sheets, Slides, Forms) and Moodle

**Technical Support:** ACS ([ev.shevtsov@knmu.edu.ua](mailto:ev.shevtsov@knmu.edu.ua)), Google ([tehotdelknmu@gmail.com](mailto:tehotdelknmu@gmail.com)), Moodle ([al.korol@knmu.edu.ua](mailto:al.korol@knmu.edu.ua))

## RECOMMENDED SOURCES

1. Guryev, S.O., Shkatula, Y.V., Pechyborshch, V.P., et al. *Medical Protection of Troops: Textbook*. Sumy: Sumy State University, 2017. 175 p.
2. Guryev, S.O., Shyshchuk, V.D., Shkatula, Y.V. *Emergency Medicine. Emergency Medical Care: Textbook*. Sumy: SumDU, 2010. 321 p.
3. Drok, L.V., Kamalov, Y.V., Mykolenko, Y.M. *Fundamentals of Tactical Medicine: Textbook*. Kyiv: National Defense University of Ukraine, 2020. 168 p.
4. Badyuk, M.I. (Ed.). *Organization of Medical Support of Troops: Textbook for Students of Higher Medical Education Institutions of Ukraine (Accreditation Levels III-IV)*. Kyiv: MP Lesya, 2014. 430 p.
5. Ilko, A.A. *Anesthesiology, Intensive Care, and Resuscitation: Textbook (Higher Education I-III Accreditation Levels)*. 2nd ed., revised and supplemented. Kyiv: Medicine, 2018.
6. Epishin, A.V. (Ed.). *Emergency Conditions in the Practice of a Therapist and Family Doctor*. Ukrmedkniga, 2019. 380 p.
7. Potsyurko, R.I., Leskiv, L.S., Monastyrskaya, M.M., et al. *Emergency Conditions in Pediatrics: Textbook (Higher Education I-II Accreditation Levels)*. Ed. R.I. Potsyurko. 6th ed., revised and supplemented, 2017. 200 p.
8. Usenko, O.Y., Bilous, H.V., Putintseva, H.Y. *Surgery: Textbook*. 5th ed., Kyiv: VSV —Medicinnell, 2021. 416 p.

**INFORMATION RESOURCES**

1. Office of the President of Ukraine <http://www.president.gov.ua/>.
2. Verkhovna Rada of Ukraine <http://www.rada.kiev.ua>
3. Cabinet of Ministers of Ukraine <http://www.kmu.gov.ua/>
4. National Security and Defense Council of Ukraine <http://www.rainbow.gov.ua/>
5. Ministry of Education and Science of Ukraine <http://www.mon.gov.ua/>
6. State Emergency Service of Ukraine <http://www.mns.gov.ua>
7. Permanent Mission of Ukraine to the United Nations <http://ukraineun.org/>
8. North Atlantic Treaty Organization (NATO) <http://www.nato.int/>
9. World Health Organization (WHO) <https://www.who.int/ukraine/uk>

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