

**SYLLABUS**  
**CONCERNING THE CYCLE OF EDUCATION** 2024-2030  
 (DATE RANGE)  
**ACADEMIC YEAR 2024-2025**

**1. BASIC INFORMATION CONCERNING THIS SUBJECT**

Subject	First aid and elements of nursing
Course code *	FAEN
Faculty of (name of the leading direction)	College of Medical Sciences, Institute of Medical Sciences University of Rzeszow
Department Name	Department of Emergency Medicine and Intensive Care
Field of study	Medicine – English Division
level of education	Masters
Profile	General academic
Form of study	Full time studies
Year and semester	Year I, semeste II
Type of course	Mandatory
Language	English
Coordinator	dr. Grzegorz Kucaba
First and Last Name of the Teachers	dr. Grzegorz Kucaba, EMT-P, PhD Wolfgang Kleinhäntz, EMT-P Łukasz Jurczak, EMT-P, MA

\* - According to the resolutions of Educational Unit

**1.1. Forms of classes, number of hours and ECTS**

Semester No.	Lecture	Exercise	Conversation	Laboratory	Seminar	Z P	Praktical	Other	Number of points ECTS
2	15	15							2

**1.2. THE FORM OF CLASS ACTIVITIES**

CLASSES ARE IN THE TRADITIONAL FORM

CLASSES ARE IMPLEMENTED USING METHODS AND TECHNIQUES OF DISTANCE LEARNING

### 1.3 EXAMINATION FORMS (EXAM, CREDIT WITH GRADE OR CREDIT WITHOUT GRADE)

## 2. BASIC REQUIREMENTS

BASIC KNOWLEDGE OF HUMAN ANATOMY AND PHYSIOLOGY
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## 3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

### 3.1 Objectives of this course

C1	Familiarization with the principles of cardiopulmonary resuscitation in adults and children, including: assessment of an unconscious victim challenges of medical assistance placing the victim in the recovery position chest compressions performing rescue breaths using the mouth-to-mouth, mouth-to-nose technique, using a pocket mask and a bag-mas valve operating an automatic external defibrillator
C2	Familiarization with the principles of first aid in life-threatening situations
C3	Development of basic practical skills and ethical attitudes necessary to provide patient care

### 3.2 OUTCOMES FOR THE COURSE

EK (THE EFFECT OF EDUCATION)	THE CONTENT OF LEARNING OUTCOMES DEFINED FOR THE CLASS (MODULE)	REFERENCE TO DIRECTIONAL EFFECTS <a href="#">[1]</a>
EK_01	IS ABLE TO PERFORM MEDICAL PROCEDURES AND TREATMENTS, INCLUDING: 1) MEASUREMENT AND ASSESSMENT OF BASIC VITAL FUNCTIONS (TEMPERATURE, PULSE, BLOOD PRESSURE) AND MONITORING THEM USING A CARDIOMONITOR AND PULSE OXIMETER; 5) DEVICE-FREE AND DEVICE-BASED AIRWAY MANAGEMENT; 6) INTRAVENOUS, INTRAMUSCULAR AND SUBCUTANEOUS DRUG ADMINISTRATION;	E.U14.

EK_02	KNOWS THE CPR GUIDELINES OF NEWBORNS, CHILDREN AND ADULTS;	F.W9.
EK_03	IS ABLE TO PERFORM BASIC LIFE SUPPORT (BLS) IN ADULTS, INCLUDING THE USE OF AN AUTOMATED EXTERNAL DEFIBRILLATOR, IN ACCORDANCE WITH THE ERC GUIDELINES;	F.U11
EK_04	IS ABLE TO PERCEIVE AND RECOGNIZE THEIR OWN LIMITATIONS, MAKE SELF-ASSESSMENT OF DEFICITS AND EDUCATIONAL NEEDS;	K.05
EK_05	IS ABLE TO USE OBJECTIVE SOURCES OF INFORMATION;	K.07
EK_06	IS ABLE TO DRAW CONCLUSIONS FROM THEIR OWN MEASUREMENTS OR OBSERVATIONS;	K.08
EK_07	IS ABLE TO ACCEPT RESPONSIBILITY FOR DECISIONS MADE WITHIN THE FRAMEWORK OF PROFESSIONAL ACTIVITY, INCLUDING IN TERMS OF THEIR OWN SAFETY AND THE SAFETY OF OTHERS	K.11

### 3.3 CONTENT CURRICULUM

#### A. Problems of the lecture

<b>Course contents</b>
1. Formal and legal aspects of providing first aid, organization of the emergency medical service system in EU, Poland and selected countries
2. Scene safety and personal safety of first responders
3. Notified emergency services
4. Assessment of basic vital signs, non-invasive monitoring, pulse oximetry, blood glucose, body temperature, NIBP
5. Early Warning Score
6. Current guidelines for cardiopulmonary resuscitation
7. Basic life-support procedures and use of an automated defibrillator (AED) in adults and children (BLS and BLS AED)

## B. Problems of auditorium, seminar, laboratory and practical classes

Course contents
1. Assessment of basic vital signs - assessment of the patient according to the ABC scheme - pulse examination, breathing assessment, blood pressure measurement, pulse oximetry, blood glucose measurement, body temperature measurement, EWS scale
2. Non-invasive airway management
3. Oropharyngeal and nasopharyngeal tube application
4. Assisted ventilation technics: mouth-to-mouth, mouth-to-nose, mouth-to-mouth/nose, pocket mask, bag - mask valve
5. BLS AED in adults and children, choking, recovery position, calling for medical assistance
6. Performance of basic procedures: intravenous cannula insertion, blood collection for laboratory tests, intramuscular and subcutaneous injections, preparation of an IV infusion

### 3.4 DIDACTIC METHODS

**LECTURE:** PROBLEM-BASED LECTURE, LECTURE WITH MULTIMEDIA PRESENTATION, TRANSFER OF EXTENDED KNOWLEDGE IN THE FIELD OF FIRST AID

**EXERCISES:** SIMULATION, GROUP WORK (SOLVING PROBLEM TASKS, DISCUSSION), DIDACTIC GAMES,

## 4. METHODS AND EVALUATION CRITERIA

### 4.1 METHODS OF VERIFICATION OF LEARNING OUTCOMES

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	FORM OF CLASSES
EK_01 - EK_03	FINAL TEST: WRITTEN TEST	LECTURE
EK_01 – EK_03	OBJECTIVE STRUCTURED CLINICAL EXAMINATION: PRACTICAL TEST	EXERCISES
EK_04 – EK_07	OBSERVATION	LECTURES/EXERCISES



#### 4.2 CONDITIONS FOR COMPLETING THE COURSE (EVALUATION CRITERIA)

### **ATTENDANCE AT ALL FORMS OF CLASSES (EXERCISES, LECTURES) IS**

#### **OBLIGATORY**

#### **KNOWLEDGE ASSESSMENT (EK\_01 - EK\_03):**

WRITTEN TEST EXAM FROM LECTURES: 38 SINGLE-CHOICE QUESTIONS

5.0 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT AT A LEVEL OF 93%-100%

4.5 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT AT A LEVEL OF 85%-92%

4.0 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT AT A LEVEL OF 77%-84%

3.5 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT AT A LEVEL OF 69%-76%

3.0 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT AT A LEVEL OF 60%-68%

2.0 – DEMONSTRATES KNOWLEDGE OF THE EDUCATIONAL CONTENT BELOW 60%

#### **ASSESSMENT OF PRACTICAL SKILLS (EK\_01-EK\_03):**

PRACTICAL PART ACCORDING TO THE OSCE COURSE ASSESSMENT REGULATIONS

#### **ASSESSMENT OF SOCIAL COMPETENCES (EK\_04-EK\_07):**

- CONTINUOUS ASSESSMENT BY THE TEACHER (OBSERVATION)
- DISCUSSION DURING CLASSES
- OPINIONS OF PATIENTS, COLLEAGUES

**THEORETICAL ASSESSMENT – WEIGHT 1**

**PRACTICAL ASSESSMENT – WEIGHT 1**

#### 5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	The average number of hours to complete the activity
Contact hours (with the teacher) resulting from the study schedule of classes	30
Contact hours (with the teacher) participation in the consultations, exams	2
Non-contact hours - student's own work (preparation for classes, exam, writing a paper, etc.)	20
SUM OF HOURS	52
TOTAL NUMBER OF ECTS	2

*\* IT SHOULD BE TAKEN INTO ACCOUNT THAT 1 ECTS POINT CORRESPONDS TO 25-30 HOURS OF TOTAL STUDENT WORKLOAD.*

## 6. TRAINING PRACTICES IN THE SUBJECT

NUMBER OF HOURS	NONE
RULES AND FORMS OF APPRENTICESHIP	NONE

## 7. LITERATURE

BASIC LITERATURE: <ol style="list-style-type: none"><li>1. EUROPEAN RESUSCITATION COUNCIL GUIDELINES 2021, CHAPTER 2, 3, 4, 8 <a href="https://cprguidelines.eu/guidelines-2021">HTTPS://CPRGUIDELINES.EU/GUIDELINES-2021</a></li><li>2. CLINICAL NURSING PRACTICES. Guidelines for Evidence-Based Practice, Sarah Renton, Claire McGuinness, Evelyn Strachan, Elsevier 2019</li></ol>
ADDITIONAL LITERATURE

Acceptance Unit Manager or authorized person