

SYLLABUS
concerning the cycle of education 2023-2029
(date range)

1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

Subject / Module	Disaster medicine
Course code / module *	Mk/F
Faculty of (name of the leading direction)	Medical College of Rzeszów University
Department Name	Medical College of Rzeszów University
Field of study	medical direction
Level of education	uniform master's studies
Profile	practical
Form of study	stationary / extramural
Year and semester	year III, semester VI
Type of course	obligatory
Coordinator	dr hab. n. med. Jan Krzysztof Kirejczyk
First and Last Name of the Teacher	

* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
10	10	-	-	-	-	-	-	1

1.3. The form of class activities

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, **credit with grade** or credit without grade)

2. REQUIREMENTS

Anatomy, physiology, biochemistry

3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

3.1. Objectives of this course/module

C1	Discussing the most common catastrophic situations in mass events during which it is necessary to implement rescue and medical actions
C2	Discussion of biological, chemical, nuclear and radiation threats
C3	Discussion of general rules for the handling of emergency calls, problems of dispatcher's error, basics of organization and operation of the integrated state medical emergency system

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	knows the principles of functioning of the integrated system of state emergency medical services	F.W8
EK_02	works according to the current algorithm of advanced resuscitation activities	F.U11
EK_03	He is aware of his own limitations and the ability to constantly improve his skills	K.04.

3.3 CONTENT CURRICULUM (filled by the coordinator)

A. Lectures

Course contents
Disaster Medicine - definitions, classifications, subject and scope of activities
Organization of a medical emergency system in Poland
Organization of rescue operations in mass accidents and disasters
Medical rescue operations and evacuation rules for victims in mass accidents and disasters
Sorting systems and sets used in mass events
Handling of multiple injuries
The role and tasks of the hospital emergency department in the conditions of a massive accident and catastrophe
Biological weapon. Bioterrorism, Proceedings of emergency services in the event of a bioterrorist attack
Chemical catastrophes, Radiation disasters, Radiation syndromes

Principles of cooperation and international assistance in the event of catastrophes. Human rights in emergency situations in the light of Polish and international law
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B. Exercises

Course contents
Principles of organization of emergency medicine structures
Medical help in mass events and disasters
The specifics of emergency medicine - selected special aspects
Rescue procedures in environmental threats
Accidents in land transport, human factor in road and rail accidents
Emergency medical services and the use of air transport in transport accidents
Accidents in maritime transport, Organization and life-saving system in catastrophes and accidents at sea
Accidents in air transport
Search and rescue systems
Rescue and medical operations in mass events

3.4 TEACHING METHODS

Lecture: lecture with multimedia presentation, seminar

Exercises: practical exercises

Student's own work: work with a book

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	Written test	Lecture
EK_02, EK_03	Practical pass	Exercises

4.2 Conditions for completing the course (evaluation criteria)

Lectures:

Written test

Knowledge assessment (EK_01):

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

Exercises:

Practical pass

Assessment of skills and competences (EK_02, EK_03):

5.0 - the student actively participates in the classes, is well prepared, has acquired theoretical and practical knowledge in the field of disaster medicine, knows very well the principles of functioning of the integrated system of state emergency medical services

4.5 - the student actively participates in classes, has acquired theoretical and practical knowledge in the field of disaster medicine, knows well the principles of functioning of the integrated system of state emergency medical services

4.0 - the student actively participates in classes, is improved, the student actively participates in classes, has acquired theoretical and practical knowledge in the field of disaster medicine, knows well the principles of functioning of the integrated state medical emergency system

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he acquired theoretical and practical knowledge in the field of disaster medicine at a sufficient level, knows well the principles of functioning of the integrated state medical emergency system

3.0 - the student participates in the classes, has acquired theoretical and practical knowledge in the field of disaster medicine to a sufficient extent, knows the principles of functioning of the integrated state medical emergency system, however, often makes mistakes and must be corrected

2.0 - the student passively participates in the classes, the statements are incorrectly substantive, theoretical and practical knowledge in the field of disaster medicine is not sufficient, incorrectly defines the principles of functioning of the integrated state medical emergency system

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

Activity	Hours / student work
Hours of classes according to plan with the teacher	20
Preparation for classes	5
Participation in the consultations	2
The time to write a paper / essay	-

Preparation for tests	5
Participation in colloquia	1
Other (e-learning)	-
SUM OF HOURS	33
TOTAL NUMBER OF ECTS	1

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

6. LITERATURE

READING: 1. Medycyna ratunkowa i katastrof , Podręcznik dla studentów uczelni medycznych, Andrzej Zawadzki Wydawnictwo Lekarskie PZWL, 2011. 2. Postępowanie ratownicze w wypadkach masowych i katastrofach , Przemysław Guła , Medycyna Praktyczna, 2009. 3. Medycyna wypadków w transporcie , Krzysztof Klukowski, Wydawnictwo Lekarskie PZWL, 2005. 4. Medycyna zagrożeń i urazów radiacyjnych, Marek K. Janiak, Andrzej Wójcik, Wydawnictwo Lekarskie PZWL, 2004. Additional literature: 1. Medycyna katastrof chemicznych , Marek Kowalczyk, Sławomir Rump, Zbigniew Kołaciński, Wydawnictwo Lekarskie PZWL, 2004. 2. Powiadamianie i dysponowanie w ratownictwie medycznym, Przemysław Guła , Medycyna Praktyczna, 2009. 3. Oparzenia w katastrofach i masowych zdarzeniach. Seria Medycyna Ratunkowa i Katastrof, Red. Jerzy Strużyna, Wydawnictwo Lekarskie PZWL, Warszawa 2004. 4. Bioterroryzm. Zasady postępowania lekarskiego. Seria Medycyna Ratunkowa i Katastrof, K. Chomiczewski, J. Kocik, M. Szkoda, Wydawnictwo Lekarskie PZWL, Warszawa 2002. 5. Medycyna ratunkowa. An illustrated colour text. Paul Atkinson, Richard Kendall, Lee van Rensburg, red. wyd. pol. Juliusz Jakubaszko, Elsevier Urban & Partner, 2012. 6. Medycyna ratunkowa Evidence-Based Medicine , Jesse M. Pines, Worth W. Everett, red. wyd. pol. Juliusz Jakubaszko, Elsevier Urban & Partner, 2012.

Acceptance Unit Manager or authorized person