DISCIPLINE FILE

1. Data about the programme

1.1.	**"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY**
1.2.	**FACULTY OF MEDICINE**
1.3.	**DEPARTMENT 4 CLINIC**
1.4.	**DISCIPLINE MEDICAL EMERGENCIES AND FIRST AID**
1.5.	**DOMAIN OF STUDY: HEALTH – Sectorally regulated within the European Union**
1.6.	**STUDY CYCLE: LICENCE**
1.7.	**STUDY PROGRAME: MEDICINE – ENGLISH MODULE**

2.2. Data about discipline

2.1.	**Name of the discpline in the educational plan: MEDICAL EMERGENCIES AND FIRST AID**					
2.2.	**Discipline code: DS IV 14M**					
2.3.	**Discipline type (FD/SD/CD): DS**					
2.4.	**Discipline regimen (MD/OPD/): DOS**					
2.5.	**The holder of the course activities**					
2.6.	**The holder of the seminar activities :**					
2.7. Year of study	**VI**	**2.8. Semester**	**VII/VIII**	**2.9. Type of evaluation (E/C)**	**Written examination**	

2. **Total estimated time (hours/semester of didactic activity an self preparation/study**

I. Academic training (teaching, practical application, assessment)						
3.1. Nr hours/week	**4 h**	**From which:**	**3.2. lecture**	**2 h**	**3.3. seminary/ laboratory**	**2 h**
3.4. Total hours of educational plan	**40 h**	**From which:**	**3.5. lecture**	**20 h**	**3.6. seminary/ laboratory**	**20 h**
Evaluation (nr. of hours) : 1,5 ore						
II. Self preparation/study						
Time allocation						**hours**
Study of course materials, textbooks, books, study of the recommended minimal bibliography						20
Additional research in the library, research through the internet						5
Performing specific activities for preparing projects, laboratories, elaborating reviews or other tasks						5
Specific preparation activities for projects, laboratory work, assignments, and reports						5
Tutoring						
Other activities						
3.7. Total individual study hours						35
3.9. Total hours per semester (3.4.+ 3.7.)			75			
3.10. Number of credits			3			

3. %Preconditions (where applicable)

4.1. of curriculum	Fundamental knowledge about acute pathology of the cardiovascular, respiratory, digestive, diabetology, neurology, nephrology and hematology systems
4.2. of competences	Students are guided on how to recognize the signs of severity of various pathologies and the most appropriate methods for their emergency diagnosis.

4. Conditions (where applicable)

5.1. to conduct the lecture	PowerPoint presentations, use of multimedia systems, and projector
5.2. to conduct the seminar / laboratory	Students carry out their practical training in shifts - coordinated by teaching staff from the discipline, according to the shift schedule of the department in which they have clinical integration. The hours dedicated to BLS, ALS, ATLS, common medical maneuvers - are carried out in the UPU.

6. Learning outcomes

Knowledge	**Skills**	**Responsibility and autonomy**
Pathophysiology and management of severe cardiac, respiratory, neurological, metabolic pathologies.	-Recognizing the critically ill patient. -Recognizing the patient with hypovolemic/cardiogenic/distributive/obstructive shock. -Knowledge of the principles of emergency management of critically ill patients. -Recognizing major rhythm disturbances on the EKG.	-Monitoring vital signs. -Administering oxygen via face mask/nostrils. -Recognizing CPR -Performing external chest compressions -External defibrillation (with AED)

7. Course objectives (aligned with the learning outcomes)

7.1. General objective	Acquiring basic knowledge regarding the main medical emergencies.
7.2. Specific objective	Acquiring the most appropriate methods of fast diagnosis and therapeutic measures and interdisciplinary collaboration to resolve critical cases.

8. Contents

8.1. Lecture	**Teaching methods**	**Observations**
Acute coronary syndromes	PPT support + free discussions	**2h**
Acute heart failure	PPT support + free discussions	**2h**
Rhythmic emergencies - tachyarrhythmias	PPT support + free discussions	**2h**
Arrhythmic emergencies - bradyarrhythmias	PPT support + free discussions	**2h**

Hydro-electrolyte and acid-base imbalances	PPT support + free discussions	**2h**
Acute respiratory failure. Adult respiratory distress syndrome.	PPT support + free discussions	**2h**
Coma. Stroke. Intracranial hemorrhage	PPT support + free discussions	**2h**
Nervous system infections	PPT support + free discussions	**2h**
Acute venous thromboembolic disease	PPT support + free discussions	**2h**
Environmental emergencies	PPT support + free discussions	**2h**
Recent Bibliography: - **Tintinalli's Emergency Medicine Manual, Eighth Edition** - **- Kumar and Clark's Clinical Medicine**		
8.2. Laboratory/ practical lesson	**Teaching methods**	**Observations**
BLS	ppt support + maneuvers on mannequin	
ALS	ppt support + maneuvers on mannequin	
ATLS	ppt support + maneuvers on mannequin	
Usual UPU maneuvers	ppt support + maneuvers on mannequin	
Assisting the in-hospital resuscitation team	External chest compressions on the patient	Team activities with the medical staff in the department
Monitoring BP, AV, EKG	Use of the monitor on the patient	Team activities with the medical staff in the department
Analgesic, sedative, vasopressor medication	Presentation and use of emergency medication	Team activities with the medical staff in the department
Recent bibligraphy : -Cardiopulmonary Resuscitation Guidelines - ERC 2025 -Advanced Trauma Life Support 2021 - American College of Surgeons		

9. Evaluation

Activity type	**9.1. Evaluation criteria**	**9.2. Evaluation methods**	**9.3. Percentage in the final grade**
9.4. Lecture		Examination method - questionnaire that includes: - 20 multiple choice questions - 20 simple choice questions	60%
9.5. Seminary/ practical activity		Correct execution of maneuvers:	40%

		-External chest compressions -Opening the airway -Using the patient's BP, AV, EKG monitor -Administering O2 via face mask/nostrils	
9.5.1. Individual project (if applicable	-	-	
9.6. Minimum performance standard : 5			

Date of completion : **Signature of the course holder** **Signature of the laboratory holder**

15 Sept 2025

Date of approval by the Department Council: **Signature of the Department Director**