



## SUBJECT OUTLINE

### 1. Data about the programme

1.1.	UNIVERSITY OF MEDICINE AND PHARMACY “CAROL DAVILA”
1.2.	FACULTY OF MEDICINE / DEPARTMENT OF SCIENCES OF MORPHOLOGY
1.3.	LEGAL MEDICINE AND BIOETHICS DISCIPLINE
1.4.	DOMAIN STUDY: HEALTH-SECTOR REGULATED BY THE UE
1.5.	STUDY CICLE: LICENCE
1.6.	STUDY PROGRAMME: MEDICINE

### 2. Data about the Discipline

2.1.	DISCIPLINE: LEGAL MEDICINE						
2.2.	DISCIPLINE PLACE: INML „Mina Minovivi” Bucharest						
2.3.	Head of discipline and of theoretical lectures:						
2.4.	Head of discipline and of practical lectures: 1						
2.5. Study year	VI	2.5. Semester	XI-XII	2.6. Evaluation type	Examen	2.7. Discipline regime	Oblig

### 3. Total time estimation (hours/semester of academic activity)

Week hours	5	From which: lectures	2	From which: lectures laboratory	3
Total hours within academic plans of the University	40	From which: lectures	16	From which: lectures laboratory	24
Time distribution					hours
Study upon manual, lecture support, references and suplimentary reading, handwriting					
Suplimentary documentation in library, on virtual platform of e learning, on field					
Preparing practical lectures / laboratories, theme, written essays, portofolio, essays					
Tutoriat					
Examinations					
Some other activities					
Total hours of individual study					
Total hours on semester					
Credits		MEDICINA LEGALA			3

### 4. Preconditions (when necessary)

4.1. Curriculum	Not necessary
4.2. Competence	Not necessary

### 5. Conditions (when necessary)

5.1. Theoretical lecture	Projector and laptop
5.2. Practical lecture / laboratory	Projector and laptop

## 6. Specific competences

<b>Professional competences (knowledge and skills)</b>	<ul style="list-style-type: none"> <li>• Establishing the diagnosis of death and the necroptic criteria that are the basis of the standards of diagnosis of death</li> <li>• Description of the mechanisms of death in the main thanatogenerative syndromes</li> <li>• Description of the mechanisms of producing traumatic injuries, depending on the type of traumatic agent:</li> <li>• Knowledge of the effect of mechanical, physical, chemical and biological traumatic factors on the human body</li> <li>• Description of the complete and correct drafting of medical documents</li> <li>• Description of the correct way to complete the medico-legal documents</li> <li>• Description of the correct way to complete traumatic injuries</li> <li>• Correctly filling in the causes of death in the medical death certificate</li> <li>• Knowledge and evaluation of cadaveric signs, ascertainment of death, establishment of the postmortem interval</li> <li>• Elements of autopsy necroptic technique</li> <li>• Elements that allow the identification of a deceased person</li> </ul>
<b>Transversal competences (role, professional development, personal)</b>	<ul style="list-style-type: none"> <li>• Teamwork skills, intra, inter and transdisciplinary</li> <li>• Oral and written communication skills in the mother tongue</li> <li>• The use of information and communication technology with the relatives of the persons undergoing treatment</li> <li>• Respect for patient rights and optimal management of the doctor-patient relationship</li> <li>• Making professional decisions</li> <li>• Tolerance towards diversity and multiculturalism,</li> <li>• learning autonomy</li> <li>• Initiative and entrepreneurial spirit</li> <li>• Respecting and developing professional values and ethics</li> </ul>

## 7. Discipline objectives (from specific competences)

<b>7.1 General objective</b>	Knowledge in the medical field, good understanding and use for specific terminology, the explanation of biological phenomena and their correct interpretation, creativity and innovation, autonomy and professional responsibility, social involvement and group interaction, personal and professional development.
<b>7.2 Specific objectives</b>	<p>Cause of death causality, pathology findings and their rapport with death, death investigation procedures and methods, death documents, identification of an unidentified person.</p> <p>Death diagnostic, completing the death certificate, explaining the cadaveric phenomena, establishing the postmortem interval, evaluating traumatic injuries and their severity, medical assistance in the vicinity of clinical death, ethics of terminal states, ethics of emergency medical assistance as duty of care, ethics of brain death and tissue and organ transplantation</p>

## 8. Content

<b>8.1. Theoretical lecture</b>	<b>Methods of teaching</b>	<b>Observations</b>
1. Thanatology, Vital reaction, forensic anthropology, forensic entomology	Lecture and media presentation	Lecture 1= 2h

2. Death diagnosis.	Lecture and media presentation	Lecture 1= 2h
3. Sudden death. Completion of the ascertaining death certificate	Lecture and media presentation	Lecture 1 = 2h
4. Forensic traumatology. Mechanical traumatic agents and traumatic injuries. Craniocerebral trauma. Traumatic shock. Physical traumatic agents: variations in temperature, pressure, electricity, explosions.	Lecture and media presentation	Lecture 1 = 2h
5. Chemical traumatic agents: medico-legal toxicology; general toxics and narcotics. Biological traumatic agents	Lecture and media presentation	Lecture 1 = 2h
6. Particular circumstances and mechanisms of injury and death. Falling, falling, shooting, heteroaggression by human means, self-aggression, battered child syndrome, road, naval, railway traffic accidents. Asphyxiation (anoxia)	Lecture and media presentation	Lecture 1 = 2h
7. Medico-legal Sexology (abortion, infanticide), medico-legal genetics (forensic genetics, parentage), medico-legal serology (blood groups, HLA)	Lecture and media presentation	Lecture 1 = 2h
8. Forensic psychiatry. Simulation of traumatic injuries and diseases. Causality in legal medicine. Elements of medical professional liability	Lecture and media presentation	Lecture 1 = 2h

**References:**

1. Legal medicine – powerpoint lecture slides
2. Curs de medicina legala (Prof. GC Curca), format electronic, 2017
3. Manualul Constatarii si Certificarii Decesului (Prof. univ. dr. Curca George Cristian), Ed. Universitara, 2009

8.2 Practical lecture / laboratory	Methods of teaching	Observations
1. Introduction: History of legal medicine in Romania; The organization of medico-legal system. Types of medico-legal examinations. Reasons for requesting a medico-legal examination. Types of medico-legal expertises and reports	Lecture and media presentation	Lecture 1= 2h
2. The disjunctive criteria of the death diagnosis.	Lecture and media presentation	Lecture 1= 2h
3. Violent death and non-violent death. The suspect death. Common causes of sudden death. Filling the medical death certificate in violent and non-violent causes of death.	Lecture and media presentation	Lecture 1 = 2h
4. Medico-legal examination of the of the living person: record of traumatic injuries, sexual assault	Lecture and media presentation	Lecture 1 = 2h
5. Medico-legal laboratory	Lecture and media presentation	Lecture 1 = 2h
6. Medico-legal autopsy – violent death - suicide	Lecture and media presentation	Lecture 1 = 2h
7. Medico-legal autopsy – violent death – accident	Lecture and media presentation	Lecture 1 = 2h
8. Medico-legal autopsy – sudden death. Medio-legal Museum	Lecture and media presentation	Lecture 1 = 2h

**References:**

1. Legal medicine – powerpoint lecture slides
2. Curs de medicina legala (Prof. GC Curca), format electronic, 2017
3. Practice lectures, sub redactia prof. George Cristian Curca, Ed. Tehnoplast (2017)

## 9. Discipline content correlation with expectations of representatives of the epistemic community, professional associations, employers representatives from the domain

The content of the discipline is correlated with the legal medicine residency curriculum ensuring an optimal transversal transfer of knowledge to the medical student as well as to the resident medical doctor in legal medicine based on university education, which determines the optimization of the physician relationship with the patient and the family and facilitates access of graduates to the medical labour market.

The grounds of the quality and competence of forensic doctor as well as of the institutional relations with other medical and legal institutions are set up.

## 10. Evaluation

Activity type	Evaluation criteria	Evaluation methods	Final mark ponder
Theoretical lecture	Fulfilling of required standards	Written examination	80%
Laboratory	Fulfilling of required standards	Oral examination	20%
<b>Minimal standard of knowledge and skills</b>			
Note 5 correspond to: (1) signs of death examination; (2) calculating postmortem interval; (3) the correct filling of the medical death certificate; (4) the correct description and record of traumatic injuries; (5) the circumstances when the forensic autopsy is required			

Filling in:  
08.09.2022

Head of theoretical lecture  
signature

Head of practical lecture  
signature

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Department Council approval  
time:

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Department head signature

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