

DISCIPLINE SHEET**ACADEMIC YEAR****2022 - 2023****1. DATA ABOUT THE STUDY PROGRAM**

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY OF CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	1
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program/Qualification	MEDICINE

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME	FORENSIC MEDICINE		
2.2. Discipline code	MED6108		
2.3 The holder of course activities	Roxana Eugenia Zăvoi, Zorilă Marian Valentin		
2.4 The holder of seminar activities	Stanca Liliana, Zorilă Marian Valentin, Tolescu Razvan Stefan		
2.5.Academic degree	Course: Professor, Lecturer Practical activities : Lecturer, Teaching Assistant		
2.6.Employment (base norm/associate)	Base norm		
2.7. Year of study	VI	2.8. Semester	I
		2.9. Course type (content)	
		2.10. Regime of discipline (compulsoriness)	CSD

3. TOTAL ESTIMATED TIME (teaching hours per semester)

3.1 Number of hours per week	4	3.2 From which course	2	3.3 seminary/laboratory	2
3.4 Total hours in curriculum	56	3.5 From which course	28	3.6 seminary/laboratory	28
Time found distribution (hours)					
Study from manual, course support, bibliography, and notes					20
Additional documentation in the library, specialized electronic platforms and, on the field					26
Training seminars / labs, homework, reports, portfolios, and essays					20
Tutoring					9
Examinations					9
Other activities, counselling, student scientific programs					10
3.7 Total hours of individual study	94				
3.9 Total hours per semester	150				
3.10 Number of credits	6				

4. PREREQUISITES (where appropriate)

4.1 curriculum	- The students need general background knowledges of other disciplines preclinical/clinical (multidisciplinary discipline)
4.2 competency	-

5. CONDITIONS (where appropriate)

5.1. of course deployment	Lecture Hall with projector / online
5.2. of seminary/ lab deployment	Practical Lab / Morgue / online

6. SPECIFIC COMPETENCES ACCRUED

PROFESSIONAL COMPETENCES	C1. - to know the basics of forensic pathology; -to know the basics of thanatology; -to know concepts on traumatology and forensic toxicology; C3. - to acquire skills to correlate medical and surgical disciplines with forensic practice - to know the fundamental problems of forensic medicine; C5. Creativity and innovation -to initiate and finalize scientific research and / or formative activities in the field of competence
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TRANSVERSAL COMPETENCES	<p>CT1. Autonomy and responsibility</p> <ul style="list-style-type: none"> - acquiring moral guidelines, formation of professional and civic attitudes that enable students to be fair, honest, peaceful, cooperative, sympathetic to the suffering, available to help people, interested of community development; - to know, respect and contribute to the development of moral values and professional ethics; - learning to recognize when a problem arises and provide responsible solutions to solve it; <p>CT2. Social interaction</p> <ul style="list-style-type: none"> - to recognize and respect diversity and multiculturalism; - to have or learn to develop teamwork skills; - to communicate requirements orally and in writing, working methods, results, consult with the team; - to get involved in volunteering, to know the essential problems of the community. <p>CT3. Personal and professional development</p> <ul style="list-style-type: none"> - to be open to lifelong learning; - to realize the need for individual study as the basis of personal autonomy and professional development; - to optimally and creatively exploit their potential in the collective activities.
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7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the discipline	<ul style="list-style-type: none"> - general notions regarding thanatology, traumatology and forensic toxicology; - basic knowledge on the classification and diagnostic of real death, supravital events, sudden death; - generalities on traumatic agents, primary injuries and traumatologic particularities of important topographic regions; -acquiring skills on medical and surgical disciplines correlation with forensic issues
7.2 The specific objectives of the discipline	<ul style="list-style-type: none"> -expose the concepts of positive and differential diagnosis of real death; -know the most important etiologic agents and traumatic aspects of primary lesions produced by them; - detail specific lezional aspects depending on the anatomical region concerned; -know the most common poisoning encountered in forensic practice. - present the main problems of obstetrics and forensic toxicology; - present the concepts of forensic and medical law;

8. CONTENTS

8.1 Course (content units)	Hours
1. Legal Medicine: Introduction in legal medicine, history, object of study.	2
2. Thanatology : definition, classification and stages of death, real death diagnosis, cadaverous changes, determining the date of death, supravital events	2
3. Suddendeadth: definition, classification, causes of sudden death in adults and children	2
4. Traumatology: traumatic agents classification, primary injuries, their mechanisms of production, vital reaction	2
5. Topographic traumatology: traumatic brain injuries, neck traumas, chest traumas, abdomino-pelvic traumas, limb injuries	2
6. Injuries caused by traffic accidents	2
7. Injuries caused by firearms	2
8. Injuries caused by physical agents: variations in temperature, atmospheric pressure, ionizing radiation, electricity	2
9. Toxicology: generalities, intoxication with carbon monoxid, intoxication with methemoglobinizant substances, hydrocyanic acid poisoning, opioid poisoning.	2
10. Intoxication with ethylic and methylic alcohol	2
11. Intoxication with organochlorine and organophosphorus substances	2
12. Mechanical asphyxies	2
13. Forensic problems of pregnancy and childbirth. Abortion.	2
14. Forensic sexology: rape, aberrant sexuality.	2

BIBLIOGRAPHY

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3. **Beliş V.**, sub red. – Tratat de medicină legală, vol. II; Ed. Medicală, Bucureşti, 1995.
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5. **Beliş V.** – Medicina legală. Curs pentru facultăţile de ştiinţe juridice; Societatea Română de Medicină Legală, Bucureşti, 1995.
6. **Dermengiu D.** - Tanatochimie medico-legală. Investigaţii biochimice actuale în tanatologie (Monografie), 160 pag., Ed BucuraMond, mai 1998
7. **Dermengiu D., Curcă G. C., Gheorghiu V., Popescu I., Gorun G., Bărbări L.** - Curs de medicină legală, Ed. Tehnoplast Company, Bucureşti, 2005
8. **Dermengiu D., Gorun G.** - Toxicologie medico – legală, Ed. Viaţa Medicală Românească, Bucureşti, 2006
9. **Dermengiu D.** - Patologie medico – legală, Ed. Viaţa Medicală Românească, Bucureşti, 2002
10. **DiMaio V.J., DiMaio D.** – Forensic Pathology; CRC Press, New York, 2001.
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13. **Groza I.L., Zăvoi R., Marinescu A.M., Stanca L.** – Medicina legală; Ed. Medicală Universitară, Craiova, 2002.
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17. **Minovici M.**-Tratat complet de medicină legală, vol. I, II; Atelierele Grafice Socec, Bucureşti, 1928.
18. **Moore E.E., Mattox K.L., Feliciano D.V.**– Trauma; Appleton&Lange, Connecticut, 1991.
19. **Polson C.J., Gee D.J., Knight B.** –The Essentials of Forensic Medicine, Pergamon Press, New York, 1985.
20. **Scripcaru Gh.** – Medicina legală; Ed. Didactică şi Pedagogică, Bucureşti, 1993.
21. **Viccellio P.** – Handbook of Medical Toxicology; Little Brown, Boston, 1993.
22. **Zăvoi R.** – Curs de medicină legală; Ed. MedicalăUniversitară, Craiova, 2007.
23. **Zăvoi R.E., Stanca L., Zorilă M.V.**, Medicină Legală, Editura Medicală Universitară Craiova, 2021

8.2 Practical work (topics / themes)

1. Organization of forensic science in Romania: legislative framework. Forensic documents.	2
2. Examination of living person: medico-legal certificate – release situations, parts	2
3. Medico-legal certificate in traumatology	2
4. Medico-legal certificate to prove virginity, defloration, rape	2
5. Medico-legal certificate to prove legal competence	2
6. Medico-legal certificate to prove sex and age	2
7. The forensic examination of persons for acute alcoholic intoxication	2
8. Forensic psychiatric expertise	2
9. Forensic autopsy: legislation, arrangements	2
10. Autopsy technique	2
11. Forensic autopsy report	2
12. Specifics of forensic autopsy	2
13. Biocriminalistic notions: bloodstains, semen stains, thread of hair	2
14. Identification based on genetic profile. Notions of medical law	2

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9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

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10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources. In case of special situations (alert states, emergency conditions, other types of situations that limit the physical presence of people) the activity can be carried out online using platforms computer science approved by the faculty / university. The online education process will be adapted accordingly to ensure the fulfillment of all the objectives provided in the discipline file.
Course	Are used the following combined methods: explanation, lecture, examining conversation, debate, problem solving.
Practical work	Are used the following combined methods: Dissection, prosection, observation method, problem solving, heuristic conversation.
Individual study	Before each course and each practical work

11. RECOVERY PROGRAM

	No. absences that can recover	Place of deployment	Period	In charge	Scheduling of topics
Absences recoveries	Max. 4 absence	Intitute of Forensic Medicine of Craiova	Friday – beetwen 14 – 16 hours Saturday 10-12	Lecturer	In advance, correlating with the problems of stage in the absents days
Schedule consultations /		Intitute of Forensic Medicine of Craiova	During the semester	Head of the discipline	In advance

Students' Scientific Circle					
Program for students poorly trained		Institute of Forensic Medicine of Craiova	During the semester	Head of the discipline	In advance
12. ASSESMENT					
Activity	Types of assesment		Methos of evaluation		Percentagefrom final grade
Lecture	Formative assesmentthrough essays, projects and surveys duringthesemester Summativeassesmentduringtheexam		Multiple Choice Questions Answering System (MCQ)/MCQ with the help of the IT platform in the online version.		50%
Practicalwork	Formative assesmentthrough Multiple Choice Questions Answering System (MCQ) or/and descriptive, projects, survey during the semester. Periodic assesmentduringthesemester Summativeassesmentduringtheexam		Multiple Choice Questions Answering System (MCQ) simultaneously with the one from the course / with the help of the video platform in the online version.		30%
Periodic assesment					10%
Assesment of individual activity					10%
Minimum performance standard	At least 50% for each component of theevaluation				
13. GUIDANCE AND COUNSELLING PROGRAMS					
Professional guidance and counselling programs (2 hours/monthly)					
Scheduling the hours			Place of deployment		In charge
Forensic Institute of Craiova			Intitute of Forensic Medicine Craiova		Roxana Zăvoi

Endorsement date in the department: 20.09.2022

Department Director,
Prof. Ion MÎNDRILĂ

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline holder,
Prof. Roxana ZĂVOI