

Course description

Part 1

General information about the course	
1. Major of study: medicine	2. Study level: unified MSc 3. Form of study: intramural
4. Year: VI	5. Semester: XI, XII
6. Course name: Forensic medicine	
7. Course status: required	
8. Course contents and assigned learning outcomes: 1. Legal obligations for the determination of death 2. Definition of the violent death and sudden death. 3. Differences between the definition of trauma and injury. 4. The rules of the examination of the corpse at the place of their disclosure. 5. The principles of forensic medical external examination and autopsies. 6. The principles of forensic diagnosis and opinion in cases concerning infanticide and reconstruction of the circumstances of the accident. 7. The basic principles for the assessment of biological markers in a road accident victim, with particular emphasis on pedestrian trauma biomechanics. 8. The principles of preparing opinions as an expert in criminal matters. 9. The principles of forensic medical assessment regarding the ability to participate in court proceedings, biological effect and damage to health. 10. The concept of medical error, the most common causes of medical errors and the principles of giving opinions in such cases. 11. The rules for taking biological material from cadavers for toxicological and hemogenetic tests. 12. Concept of adverse event. 13. Knowing and understanding the methods of conducting scientific research. W_01. The student knows the principles of the determination of death, forensic medical external examination of the body, the autopsy and the securing material for further tests W_02. The student knows how to interpret the results of autopsy, and basic toxicological and genetic tests. W_03. The student knows how to draw up an opinion of the activities carried out in accordance with applicable legal regulations. W_04. The student knows the problems of poisoning in clinical practice and their forensic-medical consequences. W_05. The student knows how to recognize the situation of adverse event. W_06. The student knows how to critically assess the results of scientific research and properly justify the position W_07. The student is knows how to collect biological material for toxicological tests and genetic research. U_01. The student is able to recognize during the examination of the child the behavior and symptoms indicating the possibility of violence against the child. U_02. The student is able to recognize the predisposing situation to commit a medical error. U_03. The student is able to collect biological material for toxicological tests and genetic research.	

Learning outcomes / reference to learning outcomes indicated in the standards

For knowledge – student knows and understands: G.W7, G.W12, G.W13, G.W14, G.W15, G.W16, G.W17, G.W18

In terms of knowledge, the student knows and understands the methods of conducting scientific research.

For skills student can do: G.U7, G.U8, G.U9

In terms of skills, the student is able to critically assess the results of scientific research and properly justify the position

For social competencies student is ready to: form opinions on various aspects of professional activity and to accept the responsibility associated with decisions taken as part of his professional activity, including in terms of his own safety and the safety of others.

In the field of social competence, the student is able to use objective sources of information and to formulate conclusions from his own measurements or observations.

9. Number of hours for the course		45
10. Number of ECTS points for the course		1,5
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – essay, MCQ.	*
Skills	Report Observation Practical exam - preparation of medicolegal report	*
Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Forensic Medicine and Toxicology 18 Medyków St., 40-752 Katowice, PL / phone: (32) 208 8437 / www.medycynasadowa.sum.edu.pl		
13. Name of the course coordinator: Agnieszka Nowak, MD; aagnieeszkaa@poczta.onet.pl ; anowak@sum.edu.pl		
14. Prerequisites for knowledge, skills and other competencies: Knowledge of the basic issues of external examination of human body, autopsy and topographic anatomy. Knowledge of basic issues concerning forensic-medical traumatology. Knowledge of basic issues related to hemogenetics - forensic genetics. Knowledge of basic issues related to forensic toxicology.		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Protective clothing (aprons) during classes in laboratories	
17. Location of classes	Department of Forensic Medicine and Toxicology	
18. Location and time for contact hours	Department of Forensic Medicine and Toxicology, Mondays in 12:00-13:00	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	The student knows, what are the legal obligations for the determination of death	G.W7.
P_W02 / C_K02	The student knows the definition of the violent death and sudden death. He knows the differences between the definition of trauma and injury.	G.W12.
P_W02 / C_K02 P_W03 / C_K02	The student knows what are the rules of the examination of the corpse at the place of their disclosure. He knows the principles of forensic medical external examination and autopsies.	G.W13.
P_W01 / C_K02 P_W02 / C_K02 P_W06 / C_K02	The student knows what are the principles of forensic diagnosis and opinion in cases concerning infanticide and reconstruction of the circumstances of the accident. He knows what are the basic principles for the assessment of biological markers in a road	G.W14.

	accident victim, with particular emphasis on pedestrian trauma biomechanics.	
P_W02 / C_K02 P_W03 / C_K02 P_W04 / C_K02	The student knows the principles of preparing opinions as an expert in criminal matters.	G.W15.
P_W03 / C_K02 P_W04 / C_K02 P_W05 / C_K02	The student knows the principles of forensic medical assessment regarding the ability to participate in court proceedings, biological effect and damage to health.	G.W16.
P_W05 / C_K02	The student knows the concept of medical error, the most common causes of medical errors and the principles of giving opinions in such cases.	G.W17.
P_W07 / C_K02	The student knows what are the rules for taking biological material from cadavers for toxicological and hemogenetic tests.	G.W18.
P_U01 / C_S01	The student is able to recognize during the examination of the child the behavior and symptoms indicating the possibility of violence against the child.	G.U7.
P_U02 / C_S01	The student is able to recognize the predisposing situation to commit a medical error.	G.U8.
P_U03 / C_S01	The student is able to collect biological material for toxicological tests and genetic research.	G.U9.
20. Forms and topics of classes		Number of hours
23.3. Labs		
Forensic medicine - a bridging nature of science, role, tasks, main subdisciplines.		1
Definition and types of death. Early and late post mortem changes.		1
Definitions of trauma and injury. Types of injury.		1
Determination of death. External examination of corpses. Estimation of the time of death.		1
Basics of forensic diagnosis.		1
Forensic autopsy - rules for the preparation of medicolegal report.		2
Forensic medical opinion in cases concerning infanticide and reconstruction of a road accident.		1
Basics of forensic toxicology.		2
Introduction to forensic hemogenetics.		2
Introduction to labs. Health and safety regulations in the autopsy room and other laboratories: toxicological and genetic. Documentation of autopsy. Image techniques in post mortem diagnostics. Types and diagnostic value of additional lab tests.		2
Participation in forensic-medical autopsy. Collection of biological material for toxicological and hemogenetic tests.		5
Haemogenetics. Paternity testing.		7
Forensic toxicology. Alcoholology and the opinioning of intoxication.		7
Examination of a victim of domestic violence. Battered child syndrome. Infanticide.		3
Outline of road accident problems. Final examination.		2
Principles of preparing opinions as an expert in criminal matters.		3
Concept of medical error, the most common causes of medical errors and the principles of giving opinions in such cases.		4
24. Readings		

Readings	
Major readings	
Richard Shepherd – Simpson's Forensic Medicine, XII edition and newer, Arnold, 2003	
Vincent J Di Maio, Dominick DiMaio – Forensic Pathology, II edition CRC Press, 2001	
Supplemental readings	
Curtis D. Klaassen, John B. Watkins III – Essentials of Toxicology, The McGraw-Hill Companies, Inc. 2003,	
Vincent J.M. Di Maio – Gunshot Wounds – Practical Aspects of Firearms, Ballistics and Forensic Techniques, II edition, CRC	
Anthony Busuttil, Jean W Keeling – Paediatric Forensic Medicine & Pathology, Hodder Arnold, 2009	
Cyril H. Wecht, John T. Rago – Forensic Science and Law, CRC Taylor and Francis, 2006	
Pekka Saukko, Bernard Knight – Knight's Forensic Pathology, II edition and newer, Arnold, 2004	
25. Detail evaluation criteria	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulations	