

**DESCRIPTION OF COURSE UNIT FOR DOCTORAL STUDIES
AT VILNIUS UNIVERSITY**

Scientific Area/eas, Field/ds of Science	Medical and Health Sciences (M 000): Medicine (M 001)			
Faculty, Institute, Department/Clinic	Faculty of Medicine Institute of Biomedical Sciences Department of Pathology, Forensic Medicine and Pharmacology			
Course unit title (ECTS credits, hours)	Clinical Forensic Medicine 9 credits (240 hours)			
Study method	Lectures	Seminars	Consultations	Self-study
Number of ECTS credits	-	-	2	7
Method of the assessment (in 10 point system)	<p><u>Presentation</u>: the presentation is prepared on a related topic, which is supervised by the coordinating lecturers (the doctoral student must analyse, review and present the latest scientific publications related to the agreed topic).</p> <p><u>Criteria for evaluating the report</u> (minimum score - 5):</p> <p>(a) relevance, novelty and topicality of the presented material (2 points);</p> <p>(b) the general structure and scope of the notification, a clear presentation of the knowledge, argumentation, conciseness and specificity (2 points);</p> <p>(c) summary, presentation and justification of conclusions (1 point);</p> <p>d) raising problematic issues, presenting the application of the reviewed knowledge in the dissertation (3 points);</p> <p>e) organization of visual aids, ability to participate in a discussion, management of questions, oratory skills (2 points).</p>			
PURPOSE OF THE COURSE UNIT				
To master the scope of clinical forensic medicine, a clinical forensic examination of the victim, the accused or another person, to be able to assess their bodily injuries and health impairment, and to present medical evidence in court.				
THE MAIN TOPICS OF COURSE UNIT				
<p>Law on Forensic Examination, and other documents regulating the activities of forensic medical examinations of living persons. Laws regulating the performance of expertise: Criminal Code (CC) of the Republic of Lithuania, Criminal Procedure Code of the Republic of Lithuania, Civil Procedure Code of the Republic of Lithuania, Law on Administrative Proceedings of the Republic of Lithuania. Documents regulating the performance of expertise: Regulations on the performance of forensic medical examinations, Rules for determining the health impairment, Commentary on the rules for determining the health impairment, Table for determining the percentage of general work incapacity due to injuries.</p> <p>Cases of examination of living persons: determination of the health impairment, determination of general working incapacity due to injuries, determination of age, determination of health condition, other types of examination of living persons. Definition of a health disorder. Injury. General working capacity. Professional working capacity. Causing Physical Pain or Negligible Health Impairment (Article 140 of the CC). Non-Severe Health Impairment (Article 138 of the CC). Severe Health Impairment (Article 135 of the CC). Severe injuries of the central nervous system. Severe injuries of internal organs and torso. Severe injuries due to fractures. Severe vascular injuries. Severe thermal injuries. Other serious injuries. Examinations of sexual conditions. The concept of sexual status. Sexual capacity. Detection of virginity. Determination of pregnancy and previous childbirth. Identification of a</p>				

former abortion. Expertise in cases of rape and attempted rape. Investigation of a person suspected of rape. Identification of abusive practices. Test for sexually transmitted disease or AIDS. Investigations of uncommon sexual conditions. General morphological characteristics of head injuries. Fractures of the skull. Epidural/subdural/subarachnoid hemorrhage, the mechanism of its formation, value for expertise. Subarachnoid hemorrhage due to disease and trauma, differential diagnosis. Brain contusion, the mechanism of its formation, value for expertise. Differential diagnosis of head trauma due to hit to the head and falling. Cerebrospinal fluid leakage under the meninges. Diagnosis of brain injury. Neurological symptoms. Instrumental (computer tomography, other radiological) examinations. Lumbar puncture. Determination of the mechanism of head injury in living persons. The concept of a solid blunt object. Classification of blunt objects according to the damaging surface. Mechanical injuries, their types. Skin abrasions, their mechanism, expert significance. Subcutaneous haemorrhages, their mechanism, value for expertise. Other soft tissue injuries (sprains, bruises), their mechanism, value for expertise. Bone fractures, their mechanism, value for expertise. Injuries of internal organs, types, value for expertise. Mechanical injuries without morphological manifestations (concussion of the brain, diffuse axonal injury, impact to reflexogenic zones). Classification of sharp objects and tools. Stab/stabbed-cut/cut injuries, their mechanism, value for expertise. Injuries caused by objects with chopping properties, their mechanism, value for expertise. Injuries typical of auto-aggression caused by sharp objects. Classification of road traffic injuries. Collision with a pedestrian. Run-over injuries. Driver and passenger injuries. Injury from falling out of the vehicle. Motorcycle transport injuries, their morphological characteristics. Determination of injury mechanism in cases of motor vehicle injuries. Railway transport/aviation/water transport injuries, their morphological characteristics. Expertise of intoxication. Expertise of gunshot wounds.

RECOMMENDED LITERATURE SOURCES

1. Garmus A., Kurapka E., Cèpla A. Teismo medicina – V., 2000.
2. Vincent J.M. DiMaio. Handbook of Forensic Pathology, Second Edition. CRC Press; 2nd edition, 2006.
3. Pigolkin, Popov. Teismo medicina [Судебная медицина]. Феникс, 2015.
4. Pigolkin. Teismo medicinos vadovėlis [Судебная медицина. Учебник]. Moskva, 2015
5. Jason Payne-James, Richard Jones. Simpson's Forensic Medicine, 14th Edition. CRC Press; 14th edition, 2019.
6. Dr. Anil Aggrawal. Textbook of Forensic Medicine and Toxicology, 2017 edition
7. V Pillay and Amrita Institute of Medical Sciences. Textbook of Forensic Medicine & Toxicology. Paras Medical; 17th edition, 2015.
8. Saferstein, R. Forensic science: An introduction. Pearson: Prentice Hall, 2011.
9. Houck, M. M. Fundamentals of forensic science. Amsterdam: Elsevier Academic Press, 2010.
10. Investigation methodology of the sexual violence female victim: <https://sam.lrv.lt/uploads/sam/documents/files/Seksualinio-smurto-aukos-istryimas%202019.pdf>

CONSULTING LECTURERS

1. Coordinating lecturer: Sigitas Chmieliauskas (Dr.).

2. Sigitas Laima (Assist. Prof. Dr.).

3. Jurgita Stasiūnienė (Assoc. Prof. Dr.).

APPROVED:

By Council of Doctoral School of Medicine and Health Sciences at Vilnius University:
29th of September 2022

Chairperson of the Board: Prof. Janina Tutkuvienė