# MATER OF STUDY FILE

<table>
<thead>
<tr>
<th>Lecture title</th>
<th>FORENSIC MEDICINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year of study</td>
<td>VI</td>
</tr>
<tr>
<td>semester*</td>
<td>I</td>
</tr>
<tr>
<td>Type of final assessment (E / V / C)</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course system (Ob – mandatory, Op – optional, F - facultative)</th>
<th>Ob</th>
<th>Number of credits</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total hours of curriculum</td>
<td>56</td>
<td>Total hours of individual study</td>
<td>75</td>
</tr>
<tr>
<td>Total hours per semester</td>
<td>131</td>
<td></td>
<td></td>
</tr>
<tr>
<td>lecturer</td>
<td>Prof. Dr. Vasile Astăresoae</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* If discipline is more semesters of study will complete one form for each semester

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Medical IV</td>
</tr>
<tr>
<td>Profile</td>
<td>Medicine</td>
</tr>
<tr>
<td>Specialization</td>
<td>Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total number of hours (per semester) in the curriculum</th>
<th>(56)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>L **</td>
</tr>
<tr>
<td>56</td>
<td>28</td>
</tr>
</tbody>
</table>

** L - lecture, Lab - laboratory activities, P - project or practical work

## Course objectives

1. acquisition by students of theoretical and practical knowledge of forensic medicine and law useful in clinical practice
2. recognition tanato-generating mechanisms in violent deaths
3. recognize signs of violence and their interpretation in terms of forensic
4. knowledge of how and application situations forensic expert at living person (trauma, psychiatric, lineage, etc.) and the body (necropsy)
### Course Content - Analytical Schedule - 28 hours

**LECTURE 1: DEFINITION, PURPOSE OF STUDY MEDICINE LEGAL HISTORY ACCORDING TO EVOLUTION SPECIALTY PROBATION AND KNOWLEDGE HEALTHCARE SYSTEM**
- a. A forensic legal regulation of activity, the role and value of forensic evidence in court
- b. Forensic medicine - organise in Romania
- c. Forensic linkage with branches of law
- d. Legal responsibility of doctor

**LECTURE 2: LESIONS OF VIOLENCE: DEFINITION, CLASSIFICATION, EVOLUTION, TIME AND HEALING MODALITY EFFECTS ON LIFE AND HEALTH.**
- b. Contusion of soft tissue lesions, osteoarticular system, internal organs, teeth.
- c. Cut wound, puncture, split soft tissue and internal organs gunshot wound bitten wound
- d. Local lesions caused by heat, cold, ionizing radiation, acids, alkalis, corrosive substances

**LECTURE 3: A FORENSIC LIVING PERSON - FORENSIC TRAUMATOLOGY**
- a. Medical criteria for assessing the severity of injuries from violence, infirmity, disability, endangering life by violence injuries, loss of organ function loss
- b. Abused child - Legislative coverage
- c. PTSD
- d. Simulation, dissimulation, mutilation

**LECTURE 4: A FORENSIC LIVING PERSON. FORENSIC PSYCHIATRIC**
- a. Objective in criminal, civil objectives: the notion of "discernment", the term "legal capacity"
- b. Forensic issues in oligophrenia, epilepsy, schizophrenia, PMD, chronic alcoholism, conduct disorder in children, puerperal psychosis

**LECTURE 5: FORENSIC LIVING PERSON. FORENSIC SEXOLOGY**
- a. Sexualisation bad: gonadal dysgenesis, hermaphroditism, transsexualism
- b. Quantitative and qualitative deviations from normal sexuality: erectile dysfunction, inability procreation of man's inability cohabitation of women, hypersexuality
- c. Sexual perversions and homosexuality, criminality legal
- d. Criminalize rape legal, forensic objectification, sexual intercourse with a minor modification of the legal criminalization genome, cloning and genetic engineering
- e. Sexualisation defect-transsexualism

**LECTURE 6: A LINEAGES FORENSIC, FORENSIC ISSUES IN ABORTION AND INFANTICIDE**
- a. Filiation of forensic examination
- b. Stages of expertise, forensic participation in solving each stage
- c. DNA profile in establishing parentage or lineage from mother to father
- d. Abortion - legal incrimination, objectification forensic forensic examination in traumatic illegal abortion and abortion
- e. Infanticide - definition forensic examination of the body of the child, forensic examination of mother (assessing signs and dates of birth, health assessment during and immediately after birth)

**LECTURE 7: FORENSIC IDENTIFICATION**
- a. Identify odontostomatologică, genetic profile, identifying the skeleton, the body, identification of biologia
- b. Application of forensic identification in disaster
- c. Joining methods of forensic identification forensic methods in murder
LECTURE 8 - FORENSIC EXAMINATION ON THE BODY. TANATOLOGIA FORENSIC
a. Definitions and diagnosis of death, agony and death phases,
b. Tanato-generating syndromes,
c. Tanatogeneatoare violence injuries in cranio-cerebral trauma, thoracic trauma and thoracic organs, injury to the limbs, abdomen and pelvic bone, spinal cord injuries, trauma BMF.
d. Causation in tanatogenează

LECTURE 9 - A FORENSIC EXAMINATION ON THE BODY. TANATOLOGIA FORENSIC
a. Types of death
b. Changes cadaver, vital reactions, vital signs, adverse supravitally survival, the importance of forensic states agonistic
c. Assessment of the date of death in forensic medicine
d. autopsy forensic exhumation (legal regulatory, forensic objectives of the corpse). Expert intervention part.

LECTURE 10 - A FORENSIC EXAMINATION ON THE BODY IN DEATH VIOLENCE BY MECHANICAL FACTORS
a. Production mechanisms and specific injuries:
b. drop and precipitation
c. accidents
d. alcohol in traffic accidents: alcohol metabolism, determining ethyl alcohol and intoxication effect at the time of the accident

LECTURE 11 - A FORENSIC EXAMINATION ON THE BODY IN DEATH VIOLENCE BY MECHANICAL FACTORS
a mechanical asphyxia: fizipatologie, classified, specific injuries hanging, strangulation, obstruction and airway openings, thoraco-abdominal compression. Drowning.
b shooting ballistic concepts, gunshot injuries, forensic issues in death by shooting, shot trace forensic identification

LECTURE 12 - A FORENSIC EXAMINATION ON THE BODY IN DEATH VIOLENCE BY PHYSICAL FACTORS
a. Burns, hyperthermia
b. frostbite, hypothermia
c. Electocuţie - technical expertise in electric shock injuries and causes tanatogeneatoare
d. Tanatogeneza to changes in atmospheric pressure
e. Injury and tanatogeneza by the action of various radiations

LECTURE 13 - FORENSIC IN DEATH BY POISONING.
a. Definitions: poisoning, toxic, drug dependence, addiction, substance abuse, withdrawal, tolerance
b. deadly CO poisoning, methemoglobinizante substances, alcohol, methanol, barbiturates, morphine, cocaine, hashish, amphetamines, LSD, hydrogen cyanide, arsenic and arsenic products, organochlorine, organofosforate, mercury
c. deadly mushroom poisoning

LECTURE 14 - DEATH VIOLENCE BY BIOLOGICAL FACTORS, PSYCHOLOGICAL, TERRORISM, TORTURE
a. Tanatogeneza in a bee and wasps, spiders, reptiles bite
b. violent death by psychological factors
c. Injury by acts of terrorism, torture – examples

The content of the seminar / laboratory - Analytical Schedule 28 hours
LP I - Purpose:
A presentation of the main sectors of forensic
a dead expertise in crimes against life, identify unknown corpses, sudden death
b living person expertise (expertise traumatology, sexology, psychiatry, postponements of punishment etc.
c additional tests (eg, specialty clinics, ENT, ophthalmology, etc.), laboratory tests (toxicological,
histopathological, serological, anthropological etc.)
B. presenting forensic document

LP II - Purpose: the acquisition method of examination, description and interpretation of lesions of violence to the person living

LP III Purpose: learning method of examination, description and interpretation of lesions of violence to the person living

LP IV - Purpose: making a forensic trauma in office and preparing forensic medical certificate - determining the number of days of care

LP V - Purpose: making a forensic traumatology works with confirmation infirmity, disability, etc.

LP VI - Purpose: forensic psychiatric expert in a criminal case and a civil case - demonstration on cases

LP VII Purpose: serological examination in forensic medicine: demonstration
• Blood examination
• determining HLA
• interpretation autoradiogramei
• biocriminalistică laboratory for identifying spots of biological products (blood, semen, amniotic fluid)

LP VIII - histopathology in forensic practice
Purpose: histological confirmation of lesions in various violent deaths

LP IX - toxicology in forensic practice
Purpose: the schedule of intoxication of ethyl alcohol calculation methods for determining the toxins in samples taken from the body and the person living

LP X - forensic autopsy.
Purpose: - learning features forensic autopsy, the objectives of any forensic autopsies

LP XI - forensic autopsy.
Purpose: - assessing signs and lesions cadaver tanatogeneratoare
- Preparation of the death certificate and autopsy report forensic
**LP XII** - forensic autopsy in deaths caused by mechanical factors (I).
Purpose: interpretation production mechanisms of injury, determine the cause of death, death certificate completion

**LP XIII** - forensic autopsy in deaths caused by mechanical factors (II).
Purpose: interpretation production mechanisms of injury, determine the cause of death, death certificate completion

**LP XIV** - forensic autopsy in deaths caused by chemical and physical factors
Purpose: interpretation production mechanisms of injury, determine the cause of death, death certificate completion

**Bibliography**

Monica Plăhteanu, "Forensic Course" Performantica Science Publishing, 1999
- Ghe Scripcaru, "Legal Medicine", Didactic and Pedagogic Publishing House Bucharest, 1993
- V. Astarastoae, Ghe Scripcaru, "Practical Elements of Legal Medicine" Lito UMF Iasi, 1992

**Skills**

1. death diagnosis in clinical and necropsy room
2. description and interpretation of violence bodily injury
3. knowledge of how to complete the death certificate
4. knowledge of how and application situations forensic expert at living person (trauma, psychiatric, lineage, etc.) and the body (necropsy)

<table>
<thead>
<tr>
<th>In determining the final grade count</th>
<th>Share in scoring in percent (Total = 100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answers to exam / colloquium (final assessment)</td>
<td>60%</td>
</tr>
<tr>
<td>- final answers to practical laboratory</td>
<td>30%</td>
</tr>
<tr>
<td>- periodic testing by control works</td>
<td></td>
</tr>
<tr>
<td>- continuous testing during the semester</td>
<td>10%</td>
</tr>
<tr>
<td>- activities like themes / papers / essays / translations / projects etc.</td>
<td></td>
</tr>
<tr>
<td>- Other (specify): Theory Test + half + note + rules Control practical combination = final grade.</td>
<td>100%</td>
</tr>
</tbody>
</table>

Describe the practical final assessment E / V (eg written work (descriptive and / or multiple choice test and / or problems, etc..), Oral, oral individual or group, project, etc.).

Written theoretical exam (multiple choice test)
Estimate the **total time** (hours per semester) claimed **individual** student learning activities  
(fill with 0 activities not required)

<table>
<thead>
<tr>
<th>Activity Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Deciphering lecture notes and study</td>
<td>10</td>
</tr>
<tr>
<td>2. Study after manually ongoing support</td>
<td>15</td>
</tr>
<tr>
<td>3. Study of literature indicated minimal</td>
<td>10</td>
</tr>
<tr>
<td>4. Additional documentation library</td>
<td>5</td>
</tr>
<tr>
<td>5. Specific activity training Seminars and / or LABORATORY</td>
<td>5</td>
</tr>
<tr>
<td>6. Homework, essays, translations, etc..</td>
<td>0</td>
</tr>
<tr>
<td>7. Control preparation works</td>
<td>0</td>
</tr>
<tr>
<td>8. Preparing oral presentations</td>
<td>0</td>
</tr>
<tr>
<td>9. Final exam preparation</td>
<td>25</td>
</tr>
<tr>
<td>10. Counseling</td>
<td>0</td>
</tr>
<tr>
<td>11. Field documentation</td>
<td>0</td>
</tr>
<tr>
<td>12. Documentation on the Internet</td>
<td>5</td>
</tr>
<tr>
<td>13. Other activities: participation in sports competitions, participation in cultural and artistic activities and university sports</td>
<td>0</td>
</tr>
<tr>
<td>14. Other....</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total** hours of individual study *(per semester)* = **75**

Date of completion: 2012  
Signature Course holder:  
*Prof. dr. Vasile Astăraștoae*