

**DEN5009 – Basic of Forensic Medicine**

Course title	Code	Semester	Type of course	Course structure and volume (hours)			ECTS
Basic of Forensic Medicine	DEN5009	IX	Mandatory	Lecture	20	90	3
				Teaching in Simulation Environment (TSE)	4		
				Seminar	24		
				Midterm Exam	1		
				Final Exam	2		
				Indep. Work	39		
Faculty, the educational program and level of education	School of Dental Medicine One cycle (5-year duration) Higher Educational Program “Dentistry”						
Staff	Rusudan Beriashvili- Invited teacher Email: <a href="mailto:rusudan.beriashvili@bauinternational.edu.ge">rusudan.beriashvili@bauinternational.edu.ge</a> <a href="mailto:avtandil.barikiani@bauinternational.edu.ge">Avtandil Barikiani-invited lecturer, e-mail: avtandil.barikiani@bauinternational.edu.ge</a>  Personal one-to-one consultation can be arranged at an agreed upon date and time						
Duration	2 weeks						
Prerequisite	DEN3001, DEN3002, DEN3011						
Aim	This course aims to provide knowledge about the forensic medical procedure, autopsy, death, wounds, child abuse, domestic violence, physicians’ legal responsibilities, medical malpractice.						
Methods of Teaching/Learning	Lecture, demonstration, presentation -PPT, discussions, case based learning- CBL, teaching in simulated environment, work with additional literature, consultation						
Assessment System and Criteria	<b>Attendance - student is obliged to attend 70% of the total number of the learning course</b> The knowledge of the student is evaluated by 100 point-based evaluation system out of which 40 points are allocated for the current assessment, 20 for midterm exam and 40 points for the final exam.  <b>1. Current Assessment (activity) - 40 points, including the following:</b> <ul style="list-style-type: none"><li>● Case analysis - 20 points;</li><li>● Presentation -10 points</li><li>● Discussion - 10 points</li></ul> <b>Case assessment criteria (2x10=20 points):</b>  1. Ability of case interpretation - 2 points;						

2. Ability of using additional sources - 2 points;
3. Ability of applying theoretical knowledge - 2 points;
4. Ability of describing pathological condition - 2 points;
5. Ability of drawing conclusions – 2 points.

**Presentation assessment criteria (10 points)**

1. Problem novelty - 2 points;
2. Academic level - 2 points;
3. Review of the available modern material related to the topic -2 points;
4. Visual and technical quality of the material - 2 points;
5. Culture of arguing and listening - 1 point;
6. Correct language and style - 1 point;

**Discussion assessment criteria (10 points)**

1. Argumentativeness of represented factual material -2 scores;
2. Complexity of represented factual material -2 scores;
3. Discussion activity – 2 scores;
4. Debating and listening culture - 2 scores;
5. Keeping within the time limit – 2 scores.

**2. Midterm Exams - 20 points;**

The exam is conducted in a test-based form (Multiple Choice Questions - MCQ). The test includes 50 questions and the value of each is 0.4 point(s). The highest possible score is 20.

**Prerequisite for Final Exam are:**

- The situation when at least 50 % of the current assessment level is achieved.
- 70% of lectures must be attended.

**3. Final Exam - 40 points**

Test-based form (MCQ -80 tests with 0.5 point(s) for each question. The highest possible score is 40.

The exam is considered being passed by the student if he /she receives **50% or more** out of the highest evaluation for the exam ( $40 \times 50 / 100 = 20$  points). When the total evaluation of the student (current evaluation + midterm exams' evaluations + final exam evaluation) is more than 40 but less than 51 points, even though the exam grade threshold is passed, the learning course is considered not being covered and the student is given the right to exam retake during the additional examination period.

If the final evaluation for the Learning Course, after taking the additional exam, (current evaluation + midterm exams evaluation + final exam evaluation) is less than 51%, the learning course is not considered covered and it must be taken again.

In summary, the student is awarded the credit in case he/she accumulates minimum 51% out of 100%.

	<p><b>Positive scores:</b></p> <ul style="list-style-type: none"> <li>• (A) Excellent- 91 or more points;</li> <li>• (B) Very Good- 81-90 points;</li> <li>• (C) Good- 71-80 points;</li> <li>• (D) Satisfactory- 61-70 points;</li> <li>• (E) Enough- 51-60 points;</li> </ul> <p><b>Negative scores:</b></p> <ul style="list-style-type: none"> <li>• (FX) Failure - 41-50 points: the student needs more independent work and is granted a single attempt of exam retake;</li> <li>• (F) Fail - 40 points or less: the student's conducted work is not sufficient and needs to take the course again.</li> </ul> <p>After the results of final exams are available, students with FX assessment have a right to retake an exam during an additional exam week in the same semester.</p> <p>An interval between a final and a corresponding additional exam must be at least 5 days after the results of a final exam become available.</p>
<b>The core literature</b>	<p><b>1.Forensic Medicine</b>-Dettmeyer,Reinhard B;Verhoff, Marcel; Springer; 2014.</p> <p><b>2. Forensic Pathology : Principles and Practice</b>- Dolinak, David; Matshes, Evan; Lew, Emma; Elsevier Academic Press; 2005.</p> <p><b>3. Knight's Forensic Pathology</b>- Knight ,Bernard;Pekka Saukko; CRC Press Taylor&amp;Francis Group; 3<sup>rd</sup>.ed. 2004</p>
<b>The auxiliary literature</b>	<p><b>1. Introduction to Environmental Forensics</b>-Murphy,Brian L; Morrison,Robert D; Elsevier Academic Press; 3rd.ed; 2015.</p>

### Learning Outcomes

NQF*	COURSE LEARNING OUTCOMES	PROG . LO	Lec tur e	Sem inar	Teachi ng in simula tion enviro nment	Teaching in clinical environ ment	Midte rm exam	Final exam	Asses. Meth.
KNO WLE DGE AND AWA RENE SS	<ul style="list-style-type: none"> <li>• Identifies problems dealing with forensic medicine and resolve that problems using correctly applied different concepts, main etic and legal principles.</li> <li>• Defines forensic medicine and how forensic medicine works.</li> </ul>	7.1. 3.1.	X	X	X		X	X	<ul style="list-style-type: none"> <li>• MCQ</li> <li>• CBL</li> <li>• PPT</li> <li>• Discussion</li> </ul>

	<ul style="list-style-type: none"> <li>Describes differences between forensic science and forensic medicine</li> <li>Explains what does death mean, types of death, early and late evidences of the death, organ transplantation procedure</li> <li>Understands forensic psychiatric principles</li> <li>Knows what does domestic violence mean, types of domestic violence, the results of domestic violence, including violence against women, types of it, results.</li> <li>Describes what does child abuse mean, types, results of it.</li> <li>Defines medical malpractice and lists types of it</li> <li>Analyzes the relationship between forensic cases and penal codes</li> <li>Classifies wounds, diagnoses different types of wounds</li> <li>Explains what does asphyxia mean, types of asphyxia, evidences of asphyxia and to make differential diagnosis different types of asphyxia</li> </ul>								
<b>SKILL</b>	<ul style="list-style-type: none"> <li>Can perform a proper forensic report</li> <li>Can use in practice knowledge about autopsy procedure and autopsy types,</li> <li>Applies in practice knowledge of communication with examined person, his/her relatives and third person on the basis of ethic and legal principles .</li> <li>Is able to solve problems in team with other students and teachers regardless of his/her religious and ethnic background.</li> <li>communicates with colleagues, engage into discussions, react and respond to an argument in a correct way autonomously when necessary</li> <li>prepares and presents reports either in a written or verbal way</li> </ul>	7.1. 2.2. 1.1. 4.1		<b>X</b>	<b>X</b>				<ul style="list-style-type: none"> <li><b>CBL</b></li> <li><b>Discussion</b></li> </ul>

RESP ONSI BILIT Y AND AUT ONO MY	<ul style="list-style-type: none"> <li>• student has ability to analyze and synthesize information</li> <li>• has ability to think critically</li> <li>• has capacity to adapt new situations</li> </ul>	11.1 11.3 11.6		X	X				<ul style="list-style-type: none"> <li>• CBL</li> <li>• PPT</li> <li>• Discussion</li> </ul>
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**Supplement 1**
**Learning Course Content**

No days		Topics	Lecture (Hrs.)	TSE (Hrs.)	Seminar (Hrs.)
<b>1 week</b>	I	Introduction to Forensic Medicine, Forensic Science in Turkey and the World.	1		
	II	Legal Responsibilities of Physicians, Patient rights, Medical Malpractice, Ethics and Human Rights.	2		3
	III	Death: Definition, Diagnosis, Postmortem Examination. Early and Late Postmortem Changes, Sudden and Natural Deaths. Death Examination. Setting of a Death Certificate.	2		3
	IV	Asphyxia. Hanging, Suffocation, Smothering, Plastic bag suffocation, Death from drowning. Toxic Gases Forensic Toxicology.	3		3
	V	General Approach to Wounds. Definition and Classification of Wound. Gunshot Wounds. Electrical injuries.	2	2	3
	VI	<b>Midterm exam</b>			1
<b>2 week</b>	VII	Medicolegal Autopsy.	2		2
	VIII	General Approach to Sexual Crimes and Legal Concepts. Forensic Medical Examination of Sexual Assault Victim.	2		3
	IX	Setting a Forensic Report in Case of Sexual Assault ; Domestic Violence Abuse in Vulnerable Groups (elderly vb.). Child Abuse.	2		3
	X	Perinatal-Neonatal Period Mother and Neonatal Deaths. Forensic Psychiatry.	2		2
	XI	Criminal License, Legal Liability; Mobbing. Illicit Drug Abuse.	2	2	2
	XII-XXII	<b>Final Exam</b>			2