



## Information about the subject

**Degree:** Bachelor of Science Degree in Criminology

**Faculty:** Faculty of Legal, Economic and Social Sciences

**Code:** 1300206 **Name:** Legal Medicine

**Credits:** 6,00 **ECTS Year:** 2 **Semester:** 1

**Module:** Methodology. Scientific-technical.

**Subject Matter:** Forensic Science **Type:** Compulsory

**Field of knowledge:** Other branches

**Department:** -

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

**Lecturer/-s:**

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## Module organization

### Methodology. Scientific-technical.

Subject Matter	ECTS	Subject	ECTS	Year/semester
Social	6,00	Research Methodology and Techniques in Social Sciences	6,00	1/2
Criminalistics	18,00	Applied Criminalistics	6,00	3/2
		Criminalistics Laboratory. Scientific Police	6,00	2/2
		Documentoscopy and Graphology	6,00	4/1
Forensic Science	24,00	Forensic Psychiatry	6,00	3/1
		Human Anatomy and Physiology	6,00	1/2
		Legal Medicine	6,00	2/1
		Techniques of Forensic Analyses	6,00	2/2

## Recommended knowledge

Basic knowledge of biology at high school level



## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1      Acquiring detailed knowledge about the situations that the regulations foresee regarding the different types of death and especially the cases of suspicious and violent death .
- R2      Knowing how to examine injuries caused by different types of weapons.
- R3      The ability to examine the most commonly used registers in human identification, and to interpret the reports in the field of identification and criminalistics.
- R4      The ability to assess and argue cases of domestic violence injuries and child abuse.
- R5      Knowing the different mechanisms of production of the injuries , distinguishing the resulting injuries, and performing the medical-legal assessment of these injuries.
- R6      Performing assessments of bodily injury and knowing how to apply the different scales and assessment grids.
- R7      Recognizing the pathological states of drug use and its medical-legal implications.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Showing a command and understanding of knowledge in an area of study that is based on the general secondary education and that is usually at a level that implies the support on advanced textbooks but also the inclusion of knowledge from the cutting edge of their field of study.				X
CB2	Being able to apply their knowledge to their jobs or vocational activities professionally and holding the competences that are demonstrated through the elaboration and defence of arguments as well as the solution of problems within their area of study.				X
CB3	The ability to gather and interpret relevant data (normally within their area of study) so as to make judgements that include a reflection on relevant social, scientific or ethical issues.				X
CB4	Being able to convey information, ideas, problems and solutions to a specialised or non-specialised public.		X		
CB5	Having developed the learning abilities necessary to pursue postgraduate studies with a high degree of autonomy.				X
GENERAL		Weighting			
		1	2	3	4
CG5	The capacity to obtain and manage efficiently the information from the scientific literature, specialised journals, databases and other sources.			X	
CG6	The capacity to establish explanatory hypotheses, using predictive and operative relationships that offer responses to the criminal phenomenon in a criminological context.				X
CG7	The capacity to take decisions and to design programs and strategies for both prevention and treatment of the criminal phenomenon.				X



CG16 Oral and written communication skills in the native language with regards to Criminological Science in order to present, circulate and validate the outcomes of criminological and criminalistic research both through scientific development and through the proposal of specific policies and lines of action.

X

SPECIFIC	Weighting			
	1	2	3	4
CE23 Knowledge and application of scientific research techniques in the medical-legal and criminalistic field, as well as the basis and preparation of various expert reports.				X
CE24 Training in the elaboration of criminologist expert reports as well as in expert intervention in the different phases of the procedures .				X



## Assessment system for the acquisition of competencies and grading system

### In-class teaching

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7	55,00%	Analysis and resolution of case studies.
R1, R2, R3, R4, R5, R6, R7	15,00%	Attendance and participation in class.
R1, R2, R3, R4, R5, R6, R7	30,00%	Exam or objective test to measure obtained competences.

### Observations

To add the percentages, it is essential to approve each of the training activities

### Online teaching

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4	30,00%	Final test and/or final work
R1, R2, R3, R4	15,00%	Participation in programmed activities
R1, R2, R3, R4	55,00%	Presentation of works and projects

### Observations

Será necesaria la obtención de un 4 en el examen para que se puedan aplicar los porcentajes obtenidos de las notas de la prueba y/o trabajo final, participación en actividades programadas y presentación de trabajos y proyectos y, obtener así, la nota final de la asignatura, que evidentemente habrá de ser igual o superior a 5.

### MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.



## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Presentation of contents by the teacher, analysis of competencies, explanation and demonstration of abilities, skills and knowledge in the classroom.
- M2 Specific instructions about group and individual assignments for each topic.
- M3 Group work sessions supervised by the teacher. Study of legal cases, both real and fictitious, analysis, diagnosis, problems, field study, computer room, visits, data search, libraries, network, Internet, etc. Significant construction of knowledge through student interaction and activity. Critical analysis on values and social commitment.
- M4 Application of interdisciplinary knowledge.
- M5 Supervised monographic sessions with shared participation
- M6 Personalized attention and in small groups. Period of instruction and/or orientation carried out by a tutor with the objective of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc.
- M7 Set of oral and/or written tests used in the initial, formative or summative evaluation of the student.
- M8 Group preparation of readings, assumptions and problem -olving to present, discuss or deliver in class or tutorial.
- M9 Student's study: Individual reading preparation, case studies, jurisprudence. Writings and papers to be presented or delivered in the classes or tutorials.
- M17 Expository Method /Master Class
- M18 Exercise and problem solving
- M19 Case method
- M20 Course works and tasks



- M21 Project-oriented learning
- M22 Guided Practice through debates, resolution of problems and exercises in the virtual classroom.





## IN-CLASS LEARNING

### IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
In-person class M1, M2, M4, M8, M9	R1, R2, R3, R4, R5, R6, R7	15,00	0,60
Practical class M2, M3, M4, M5, M7, M8, M9	R1, R2, R3, R4, R5, R6, R7	30,00	1,20
Seminar M4, M5	R1, R2, R3, R4, R5, R6, R7	2,50	0,10
Group work presentation M2, M3, M4, M6	R1, R2, R3, R4, R5, R6, R7	5,00	0,20
Tutorial M2, M4, M6, M9	R1, R2, R3, R4, R5, R6, R7	5,00	0,20
Evaluation M1, M2, M3, M4, M5, M6, M7, M8, M9	R1, R2, R3, R4, R5, R6, R7	2,50	0,10
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

### LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M2, M3, M4, M6, M8, M9	R1, R2, R3, R4, R5, R6, R7	30,00	1,20
Individual work M2, M3, M4, M5, M6, M7, M8, M9	R1, R2, R3, R4, R5, R6, R7	60,00	2,40
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>



## ON-LINE LEARNING

### SYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Master Class M17	R1, R2, R3, R4	15,00	0,60
Practical activity M18, M19	R1, R2, R3, R4	25,00	1,00
Tutorial M17, M19	R1, R2, R3, R4	10,00	0,40
<b>TOTAL</b>		<b>50,00</b>	<b>2,00</b>

### ASYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Individual or group work of students M18, M19, M20	R1, R2, R3, R4	90,00	3,60
Activities through virtual resources M18, M19, M20	R1, R2, R3, R4	2,50	0,10
Access and research on complementary contents M18, M19, M20	R1, R2, R3, R4	5,00	0,20
Individual study M18, M19, M20	R1, R2, R3, R4	2,50	0,10
<b>TOTAL</b>		<b>100,00</b>	<b>4,00</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
1. GENERAL	Historical evolution of Legal Medicine. Legal medicine and Justice Administration. Legal Medicine Concept. Legal Norms. Institutes of Legal Medicine. Foundations, objectives and functions.
2. FORENSIC PATHOLOGY	Legal medical problems in relation to death. General mechanisms of death. Clinical and judicial autopsies. Organ harvesting and transplantation. Injuries from firearms, stabbed weapons, explosions, physical agents and mechanical suffocation. Body removal and crime scene. Cadaveric phenomena. Cadaveric and human remains identification
3. CRIMES AGAINST SEXUAL FREEDOM	Sexual assault. Protocol of action in victims of sexual assaults
4. FORENSIC TOXICOLOGY	Ethanol and methanol poisoning. Study of drugs. Gas poisoning. Frequent poisonings in clinical practice: pesticides, caustics, gases and heavy metals. Interpretation of analytical results and medical-legal assessment
5. FORENSIC AND CRIMINALISTIC BIOLOGY	crime scene investigation. Traces of blood investigation. semen vestiges investigation. Identification of traces of saliva and other signs of forensic interest
6. ASSESSMENT OF BODY DAMAGE	Traffic accidents. Injuries and their assessment (scales). Abuse in the family environment: violence against women, mistreatment of the elderly and children
7. FORENSIC ANTHROPOLOGY	Study of bone remains: extraction and shipment to the laboratory. Material and instruments used. It dates from the remains. Diagnosis of sex and age. Particularities of congenital, pathological or traumatic nature



## 8. IDENTIFICATION

Identification of the living subject  
Identification of corpses  
Identification in events with multiple victims  
Forensic Odontology

## 9. FORENSIC MEDICAL REPORT

Legal medical expertise  
Preparation and content of the medical-forensic report  
Medico-legal documents of interest

### Temporary organization of learning:

Block of content	Number of sessions	Hours
1. GENERAL	1,00	2,00
2. FORENSIC PATHOLOGY	11,00	22,00
3. CRIMES AGAINST SEXUAL FREEDOM	2,00	4,00
4. FORENSIC TOXICOLOGY	5,00	10,00
5. FORENSIC AND CRIMINALISTIC BIOLOGY	5,00	10,00
6. ASSESSMENT OF BODY DAMAGE	2,00	4,00
7. FORENSIC ANTHROPOLOGY	1,00	2,00
8. IDENTIFICATION	2,00	4,00
9. FORENSIC MEDICAL REPORT	1,00	2,00



## References

### BASIC BIBLIOGRAPHY

- Gisbert Calabuig JA. Legal medicine and toxicology . 7<sup>a</sup> ed. Elsevier; 2018.
- Delgado Bueno S. Legal Medicine and Forensic Sciences Treaty. 4 vol. Barcelona: Bosch; 2011.

### BIBLIOGRAFÍA COMPLEMENTARIA

- Menéndez de Lucas JA. Forensic and Legal Medicine Manual for Medical Students. Barcelona: ELSEVIER; 2014.

### ENLACES Y WEBS DE INTERÉS

- SPANISH SOCIETY OF CRIMINOLOGY AND FORENSIC SCIENCES, <http://seccif.es/>  
FORENSIC PATHOLOGY, <https://www.scoop.it/t/patologia-forense>.  
SPANISH SOCIETY OF FORENSIC PATHOLOGY, [www.sepaf.es](http://www.sepaf.es)



## Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

**Situation 1: Teaching without limited capacity** (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

**Situation 2: Teaching with limited capacity** (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

### 1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



## **Situation 3: Confinement due to a new State of Alarm.**

In this case, the following changes are made:

### **1. Educational Activities of Onsite Work:**

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☐ Kaltura

Explanation about the practical sessions:



## 2. System for Assessing the Acquisition of the competences and Assessment System

### ONSITE WORK

#### Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

#### Comments to the Assessment System:





And how will online participation be valued? In many different ways, such as the following:

- 1) Taking into account the interventions of the students in the online classes themselves, with the corresponding records or notes.
- 2) Considering virtual tutorials through the UCVnet virtual Campus or online sessions through Teams developed as a group or individual tutorial.
- 3) Taking into account the interventions in the forum created on the UCVnet platform to raise and answer questions on the agenda.
- 4) Considering the emails or messages received raising questions about the subject's agenda.



## ONLINE WORK

### Regarding the Assessment Tools:

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☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

### Comments to the Assessment System: