



Information about the subject

Degree: Bachelor of Science Degree in Medicine

Faculty: Faculty of Medicine and Health Sciences

Code: 340506 **Name:** Legal Medicine and Toxicology

Credits: 6,00 **ECTS Year:** 5 **Semester:** 1

Module: Social Medicine, Communication Skills and Initiation to Research

Subject Matter: Social Medicine **Type:** Compulsory

Field of knowledge: Health Science

Department: Biostatistics, Epidemiology, and Public Health

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Social Medicine, Communication Skills and Initiation to Research

Subject Matter	ECTS	Subject	ECTS	Year/semester
Communication Skills	3,00	Laboratory of Clinical Interview and Communication Skills	3,00	3/1
Social Medicine	15,00	Family and Community Medicine	3,00	5/2
		Legal Medicine and Toxicology	6,00	5/1
		Preventive Medicine and Public Health	6,00	4/2
Research inicialization	9,00	History of Medical Science, and Medical Documentation and Terminology	6,00	2/1
		Laboratory of Research Methodology	3,00	4/1
Statistics	6,00	Biostatistics	6,00	1/2
Ethics and professional issues	12,00	Bioethics and Medical Deontology	6,00	4/1
		Social Doctrine of the Catholic Church	6,00	2/2
Health management	3,00	Healthcare Management	3,00	4/1
English	6,00	Medical English	6,00	1/1
Ethics	6,00	Ethics	6,00	2/1
Antropology	6,00	Medical Anthropology	6,00	1/1



Recommended knowledge

It is recommended to have knowledge of the subjects of anatomy I and II, pathological anatomy and psychiatry.



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 Recognize the determinants of population health. Health indicators.
- R2 Planning, programming and evaluation of health programs.
- R3 Prevention and protection against diseases, injuries and accidents.
- R4 Assessment of quality of care and patient safety strategies.
- R5 Vaccines. Epidemiology. Demographics.
- R6 Health and environment. Food safety. Occupational health.
- R7 Know, critically value and know how to use technologies and sources of clinical and biomedical information, to obtain, organize, interpret and communicate clinical, scientific and health information.
- R8 Know the history of health and disease.
- R9 Know the existence and principles of alternative medicines.
- R10 Operate a personal computer with autonomy. Use biomedical information search and retrieval systems.
- R11 Know and manage clinical documentation procedures. Understand and critically interpret scientific texts. Know the principles of the scientific method, biomedical research and clinical trial.
- R12 Know the principles of telemedicine.
- R13 Know and manage the principles of medicine based on (best) evidence.
- R14 Know the aspects of communication with patients, family members and their social environment: Models of clinical relationship, interview, verbal, nonverbal communication and interference.



- R15 Give bad news. Write stories, reports, instructions, and other records, understandably to patients, family members, and other professionals. Conduct a public, oral and written exhibition of scientific papers and/or professional reports.
- R16 Diagnose the different types of injuries and their medical-legal importance



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	Students have demonstrated to possess and understand knowledge in a study area that starts from the base of the general secondary education, and is usually found at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the forefront of their field of study				X
CB2	Students know how to apply their knowledge to their job or vocation in a professional way and possess the competences that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study				X
CB3	Students have the ability to collect and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical topics				X
CB4	Students can pass on information, ideas, problems and solutions to both a specialized and non-specialized audience				X
CB5	Students have developed the learning skills needed to undertake further studies with a high degree of autonomy				X
GENERAL		Weighting			
		1	2	3	4
CG1	Recognizing the essential elements of the medical profession, including ethical principles, legal responsibilities, and patient-centered professional exercise				X
CG2	Understanding the importance of such principles for the benefit of the patient, society and profession, with special attention to professional secrecy				X
CG3	Knowing how to apply the principle of social justice to professional practice and understanding the ethical implications of health in a changing global context			X	



CG4	Developing professional practice with respect to patient autonomy, beliefs and culture				X
CG5	Recognizing the limitations themselves and the need to maintain and update their professional competence, giving special importance to the autonomous learning of new knowledge and techniques and to the motivation for quality			X	
CG6	Developing professional practice with respect for other health professionals, acquiring teamwork skills			X	
CG7	Understanding and recognizing the normal structure and function of the human body, at the molecular, cellular, tissue, organic and systems levels, at the different stages of life and in both sexes	X			
CG8	Recognize the basis of normal human behavior and its disfunctions			X	
CG9	Understanding and recognizing the effects, mechanisms and manifestations of the disease on the structure and function of the human body			X	
CG10	Understanding and recognizing the causative agents and risk factors that determine health and disease development		X		
CG11	Understanding and recognizing the effects of growth, development and aging on the individual and their social environment	X			
CG12	Understanding the basis of action, indications and efficacy of therapeutic interventions, based on available scientific evidence	X			
CG13	Getting and writing a medical history containing all relevant information	X			
CG14	Perform a physical exam and mental assessment			X	
CG15	Having the ability to make an initial diagnostic judgment and establish a reasoned diagnostic strategy	X			
CG16	Recognizing and treating life-threatening situations and those that require immediate attention	X			
CG17	Establishing all diagnosis, prognosis and treatment, applying principles based on the best possible information and clinical safety	X			
CG18	Indicating the most appropriate therapeutics of the most prevalent and chronic acute processes, as well as terminally ill patients	X			
CG19	Raising and proposing appropriate preventive measures for each clinical situation	X			



CG20	Acquiring enough clinical experience in hospital institutions, health centers or other health institutions, under supervision, as well as basic knowledge of patient-centered clinical management and appropriate use of tests, medicines and other health system resources	X			
CG21	Listening to carefully, obtain and synthesize relevant information about the problems afflicting the patient and understand the content of this information		X		
CG22	Writing medical histories and other medical records in an understandable way to outsiders	X			
CG23	Communicating effectively and clearly, both orally and in writing, with patients, family members, media workers and other professionals			X	
CG24	Establishing good interpersonal communication that enables patients, family members, media workers and other professionals to address patients, families, media and other professionals with efficiency and empathy			X	
CG25	Recognizing health and population determinants, both genetic and sexual, lifestyle, demographic, environmental, social, economic, psychological and cultural issues	X			
CG26	Taking on your role in prevention and protection against illness, injury or accidents, and health maintenance and promotion, both individually and in the community	X			
CG27	Recognizing their role in multi-professional teams, taking the lead where appropriate, both for the provision of health care, and in health promotion interventions	X			
CG28	Obtaining and using epidemiological data and assess trends and risks for health decision-making	X			
CG29	Knowing national and international health organizations and the environments and conditions of different health systems			X	
CG30	Basic knowledge of the National Health System and health legislation		X		
CG32	Knowing how to use information and communication technologies in clinical, therapeutic, preventive and research activities	X			
CG33	Maintaining and using records with patient information for further analysis, preserving data confidentiality	X			



SPECIFIC	Weighting			
	1	2	3	4
CE7 Knowing the legal basis of the exercise of the medical profession. Informed consent. Confidentiality				X
CE8 Recognizing, diagnosing and guiding the management of physical and mental harm. Social and legal implications of death				X
CE9 Knowing and recognizing the normal evolution of the corpse. Postmortem diagnosis. Basics of medical criminology				X
CE10 Being able to write medical-legal documents				X
CE13 Recognizing the need to maintain professional competence			X	
CE14 Knowing how to approach professional practice while respecting the patient's autonomy, beliefs and culture			X	
CE15 Knowing the principles and applying the methods of preventive medicine and public health. Risk factors and disease prevention	X			
CE16 Recognizing the determinants of population health. Health indicators. Planning, programming and evaluation of health programs. Prevention and protection against diseases, injuries and accidents. Assessment of quality of care and patient safety strategies. Vaccines. Epidemiology. Demographics	X			
CE17 Knowing health planning and administration at the global, European, Spanish and regional levels	X			
CE18 Knowing the economic and social implications of medical action, considering criteria of effectiveness and efficiency. Health and environment. Food safety. Occupational health	X			
CE19 Knowing, critically valuing and knowing how to use technologies and sources of clinical and biomedical information, to obtain, organize, interpret and communicate clinical, scientific and health information	X			
CE22 Knowing the history of health and disease				X
CE23 Knowing the existence and principles of alternative medicines				X
CE31 Writing stories, reports, instructions and other records, understandably to patients, family members and other professionals				X



TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical and synthesis capacity			X	
CT2	Planification and organization capacity				X
CT3	Oral and written communication in mother language			X	
CT5	Informatics knowledge		X		
CT6	Manage information capacity			X	
CT7	Solving problems				X
CT9	Team work		X		
CT12	Interpersonal relationship skills			X	
CT13	Recognition of diversity and multiculturalism				X
CT14	Critical reasoning			X	
CT15	Ethical commitment				X
CT16	Individual learning				X
CT17	New situations' adaptation				X
CT22	Motivation for quality				X
CT23	Sensitivity to environmental and social health issues				X
CT27	Ability to express one's feelings			X	
CT30	Social commitment				X
CT31	Show sensitivity to personal, environmental and institutional injustices				X



CT33 Knowing how to get relevant information from personal interviews

X

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4	70,00%	Tests
R1, R2, R3, R4	25,00%	Work
R2, R4	5,00%	Participation in class

Observations

Passing the multiple choice exam is a necessary condition to apply the rest of the evaluation percentages.

MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.



Learning activities

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

- M1 Masterclass
- M2 Problems resolution and practical cases
- M3 Virtual simulations
- M4 Content presentations by teacher
- M5 Knowledges and skills explanation
- M8 Group activities supervised by professor
- M9 Knowledge acquirance through student interaction and activity
- M11 Personalised attention by professor
- M12 Tests to understand the level of knowledge acquirance and skills
- M13 Written work
- M14 Online activity on e-learning
- M15 Personal study
- M16 Information research
- M17 Discussion and solving issues in group
- M18 Work in team



M19 Group work for searching, discussion and information research

M20 Role-playing

M21 Supervision of clinical histories

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theory class M1, M2, M4	R1, R2, R3, R4	43,00	1,72
Seminar and group practices M2, M4	R1, R2, R3, R4	11,00	0,44
Practices in small groups M2	R1, R2, R3, R4	4,00	0,16
Tutoring M4	R1, R2, R4	1,00	0,04
Evaluation M2, M4	R1, R2, R3, R4	1,00	0,04
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2	R1, R2, R3, R4	90,00	3,60
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK I: GENERALITIES	UNIT 1. Concept of Legal Medicine. Legal Norms. Institutes of Legal Medicine. Rationale, objectives and functions.
BLOCK II. FORENSIC PATHOLOGY	UNIT 2. Medical legal problems in connection with death. UNIT 3. General mechanisms of death. UNIT 4. Clinical and judicial autopsies. Extraction and organ transplantation. UNIT 5. Removal of a dead body and crime scene. UNIT 6. Cadaveric phenomena. UNIT 7. Cadaverous and identification of human remains. UNIT 8. Injuries in traffic accidents UNIT 9. Sudden Adult Death UNIT 10. Sudden Infant Death. UNIT 11. Firearm injuries UNIT 12. Stab injuries UNIT 13. Mechanical asphyxia. UNIT 14. Injuries by physical agents UNIT 15. Accidental death and major disasters.
BLOCK III: HEALTH LAW	UNIT 16. Practice of medicine. Medical professional liability. Professional secrecy. Informed consent. Medical-Legal documents
BLOCK IV: FORENSIC TOXICOLOGY	UNIT 17. Forensic study of emerging drugs, frequent intoxication in clinical practice and poisoning gases. UNIT 18. Forensic study of ethanol. Interpretation of analytical results and medical-legal assessment. UNIT 19. Poisoning in clinical practice.



BLOCK V: FORENSIC PSYCHIATRY

UNIT 20. Concepts of Forensic Psychiatry. Liability.
Forensic psychiatric examination.

UNIT 21. Medical-legal disability evaluation.

UNIT 22. Eating disorders. Labor and bullying. Medical-legal
importance

UNIT 23. Medical-legal problems of mental illness.
Evaluation and medicallegal importance.

BLOCK VI: EVALUTION OF BODILY INJURY

UNIT 24. Injuries and medical-legal evaluation.

UNIT 25. Rating bodily harm. Occupational Medicine.
Handicaps. Valuation tables

UNIT 26. Violence against women.

UNIT 27. Sexual crimes

UNIT 28. Abuse in the family environment: child abuse and
elderly.

Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: GENERALITIES	2,00	4,00
BLOCK II. FORENSIC PATHOLOGY	15,00	30,00
BLOCK III: HEALTH LAW	2,00	4,00
BLOCK IV: FORENSIC TOXICOLOGY	2,00	4,00
BLOCK V: FORENSIC PSYCHIATRY	4,00	8,00
BLOCK VI: EVALUTION OF BODILY INJURY	5,00	10,00



References

MAIN BIBLIOGRAPHY

Gisbert Calabuig JA. Medicina legal y toxicología. 6ª ed. Barcelona: Masson; 2004.

Delgado Bueno S. Tratado de Medicina legal y ciencias forenses. 4 vol. Barcelona: Bosch; 2011.

ADDITIONAL BIBLIOGRAPHY

Dueñas Laita A. Intoxicaciones agudas en medicina de urgencia y cuidados críticos. Barcelona: Masson; 1999.

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Escribá Agüir V, Royo Marqués M, Mas Pons R, Fullana Montoro A, Moreno Alonso MP.

Protocolo para la Atención sanitaria de la Violencia de Género (PDA). Valencia: Conselleria de Sanitat, Agència Valenciana de la Salut; 2009.

<http://sivio.san.gva.es/documents/71299/89752/Protocolo+violencia+de+g%C3%A9nero+3%C2%AA%20edici%C3%B3n+CASTELLANO.pdf>

Menéndez de Lucas JA, Ruiz Cervigón M, Segura Abad L, Elegido Fluiters M. Manual de Medicina Legal y Forense para estudiantes de Medicina. Barcelona: Elsevier; 2014

Vallejo Ruiloba J, director. Introducción a la psicopatología y la psiquiatría. 7ª ed. Barcelona: Elsevier Masson; 2011.



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:

The practical sessions have been suspended this academic year due to the COVID-19 pandemic situation.



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:

The evaluation system will be the same that appears in the teaching guide in case of suspension of attendance.