

**COURSE DATA****Data Subject**

<b>Code</b>	34459
<b>Name</b>	Legal medicine and public health
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	4.5
<b>Academic year</b>	2022 - 2023

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1204 - Degree in Medicine	Faculty of Medicine and Odontology	5	Second term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1204 - Degree in Medicine	9 - Social medicine and communication skills	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
FRANCÉS BOZAL, FRANCISCO GREGORIO	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.
GARCIA GARCIA, ANA MARIA	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.

**SUMMARY****Legal Medicine**

The Legal Medicine is the conjoint of medical and biological knowledge necessary for the problem solving that the Law raises, both in the law practical application and in its improvement and evolution. It deals with the study of the medical-juridical problems that are related with the person and corpse and includes questions about the medical legislation and professional responsibility.

**Public Health**



Public health is the science that ensures health in the population as a whole, understanding health as a fundamental right of all people and taking into account the wide range of causes of health problems. Public health advocates the development of policies, policies, and interventions that favour healthy social and physical environments.

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

### Other requirements

## OUTCOMES

### 1204 - Degree in Medicine

- Recognise the essential elements of the medical profession, including ethical principles, legal responsibilities and the professional practise focused on the patient.
- Understand the importance of such principles for the best interests of the patient, society and the profession, with special attention to professional privacy.
- Develop ones professional practise with respect towards the autonomy of patients, their beliefs and culture.
- Recognise health determinants in population, such as genetic ones, dependent on sex, lifestyle, demographic, environmental, social, economic, psychological and cultural.
- Assume the role to play in preventive measures and protection against diseases, injuries or accidents, and the maintenance and promotion of health, both individually and in communities
- Recognise the role to play in multi-professional teams, assuming leadership when appropriate, both for the provision of health care and the interventions for medical promotion.
- Know of the national and international health organisations, and the environment and determining factors in several health systems.
- Key knowledge of the national health care system and of health legislation.
- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.



- Consideration of ethics as a fundamental value in the professional practise.
- Working capacity to function in an international context.
- Knows the legal foundations of the medical practise and profession. Informed consent. Confidentiality.
- Recognises, diagnoses and guides the management of physical and mental damage.
- Knows of the social and legal implications of death. Recognises the normal evolution of a corpse. Knows the basis of a post-mortem diagnose and the foundations of medical criminology.
- Is able to compile medical and legal documents.
- Is aware of the necessity to maintain ones professional skills.
- Knows the principles and applies methods of preventive medicine and public health.
- Knows how to evaluate risk factors and disease prevention. Recognises health determinants in population. Health indicators.
- Knows the planning systems of health programmes, as well as programming and evaluation ones.
- Understands the course of action in prevention and protection against diseases, injuries and accidents.
- Knows how to evaluate healthcare quality and the patients safety strategies. Is aware of the importance of vaccines.
- Knows the strategies which exist in health and environment, food safety and occupational health care
- Is able to design and elaborate simple statistic studies by using computer programming and interprets the results.
- Knows of the aspects of communication with patients, their relatives and their social environment: clinical relationship models, interview, verbal and non-verbal communication and interferences. Delivering bad news.

## LEARNING OUTCOMES

Public health. At the end of the course the student must be able to:

- Apply the concepts and strategies of Public Health. Know the proper functions of Public Health as well as its general organization at regional, national and international level.
- Analyze the health needs of the population based on their sociodemographic profile and the physical, socioeconomic, behavioral and health determinants that influence health. Analyze health inequalities in the population along the axes of gender, age, social class, ethnicity, territory and disability.
- Apply the foundations and strategies for the promotion of health in the population, including the principles of health in all policies, community health, healthy environments and health education.
- Apply the salutogenic model and the identification and promotion of health assets in the community. Implement social prescription programs.
- Know the organization of the National Health System in Spain. Know and apply the foundations for planning and evaluating health policies, programs and interventions, including the bases of economic evaluation.
- Act for the prevention and promotion of the health of patients and the community from the medical office, including recommendations and evidence-based community counseling programs. Apply



ethical principles to the practice of Public Health.

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Medicina Legal. El alumnado debe ser capaz de:

- Reconocer los elementos legales esenciales de la profesión médica y sus responsabilidades derivadas.
- Conocer la legislación sanitaria que rige las diversas actividades profesionales.
- Reconocer, diagnosticar y orientar el manejo del daño físico y mental, tanto de origen violento como natural.
- Reconocer, diagnosticar y orientar las situaciones de maltrato de las personas en general y desde una perspectiva de género.
- Saber detectar en el cadáver los signos de los que se puedan derivar responsabilidades legales.
- Saber preservar los indicios criminalísticos que puedan servir para el auxilio pericial de la justicia.
- Redactar documentos médico-legales.

## DESCRIPTION OF CONTENTS

### 1. 1. Theory

#### PUBLIC HEALTH MODULE

1. Concepts and strategies in Public Health.
2. Health profiles and determinants of health in the population. Global burden of disease.
3. Health promotion. Salutogenesis. Health assets. Social prescription.
4. Public Health services. Public Health from the doctors office.
5. National Health System. National and international public health organizations. Planning and evaluation of health programs. Health economics.

#### LEGAL MEDICINE MODULE

1. Forensic and forensic medicine. Concept and contents.
2. Legal medicine of professional practice.
3. Forensic Thanatology I
4. Forensic Thanatology II.
5. Forensic pathology I.
6. Forensic pathology II.
7. Forensic psychiatry.
8. Forensic sexology.
9. Forensic Medicine of the labor activity.
10. Disease simulation.

**2. 2. Practical training: Public Health**

1. Seminar (1,5hr). Vaccines: basic concepts. Vaccination calendars in Spain. Conflicts and challenges.
2. Seminar (1,5hr). Population screening programs. Early diagnosis of cancer.
3. Seminar (1,5hr). Community health programs.
4. Fridays Practice (1hr). Occupational Health: Conditions of work, employment and health. Occupational health protection in Spain. Occupational diseases.
5. Fridays Practice (1hr). Global Health: Basic concepts. Sustainable Development Goals. Climate change. Internal contamination. Antimicrobial resistance.
6. Computer Practice (2hr). Identification of healthy life patterns and risk habits. Analysis of a population (I).
7. Computer Practice (2hr). Identification of healthy life patterns and risk habits. Analysis of a population (II).
8. Laboratory Practice (2hr). Choose and correctly apply the right disinfectant. Assess the controls and sterilization methods.

**3. 3. Practical training: Legal Medicine**

1. Legal medical documents.
2. Health legislation.
3. Professional responsibility.
4. Autopsy.
5. Forensic medical clinic.
6. Duty court.
7. Forensic laboratories: forensic histopathology, forensic genetics and forensic echotoxicology.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Legal medicine practices	20,00	100
Theory classes	19,00	100
Seminars	11,00	100
Computer classroom practice	4,00	100
Laboratory practices	2,00	100
<b>TOTAL</b>	<b>56,00</b>	

**TEACHING METHODOLOGY****Module I: Public Health**





The **theoretical contents** will be taught in the teaching classroom through lectures in which an attempt will be made to encourage the active participation of students, in total 5 theoretical sessions. The **practical contents** are taught as **Seminars** (three sessions of 1.5h), **Seminars** (two sessions of 1h, will be held on Fridays), **Computer Practices** (two sessions of 2h) and **Laboratory Practices** (one session of 2h), a total of 8 practical sessions. **ALL PRACTICAL SESSIONS ARE MANDATORY ATTENDANCE.** In the practical sessions, participatory methodologies will be used, including problem analysis and solving, group work and presentation and joint discussion of the exercises.

### **Módulo II: Medicina Legal**

Los contenidos teóricos se imparten como lección magistral relacional y participativa regulada. Los contenidos prácticos se desarrollan en el Instituto de Medicina Legal y Ciencias Forenses de Valencia, en cuatro áreas principales: laboratorios forenses de toxicología y genética, medicina forense clínica general y psiquiátrica, asistencia a pruebas periciales en sede judicial y autopsia médico forense. Se complementa con seminarios a desarrollar en la Facultat de Medicina i Odontologia sobre documentos médico legales y responsabilidad profesional médica **junto con el trabajo desde el aula virtual.**

## **EVALUATION**

In the final score, theory and practice will have an equivalent weight of 50% respectively (50% evaluation of the theoretical contents and 50% evaluation of the practical contents).

In the evaluation of the whole subject, 67% will correspond to the results obtained in the evaluation of Module Legal Medicine and 33% to those corresponding to Module Public Health, in both cases evaluating theoretical and practical contents by 50%.

In order to pass the course, a score equal to or greater than five in each of both modules must be obtained.

In no case will the grade obtained in any of the exercises corresponding to the subject be saved for courses other than the current one.

All the exams will be carried out within the periods established in the academic calendar, except for exceptions expressly authorized officially by the Dean.

Attendance to practical sessions is mandatory. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course.

It is a requirement for advanced examination of this subject that the student has completed all practical sessions.

### **Some considerations about Module Public Health examination**

The exam corresponding to the Public Health Module of the Legal Medicine and Public Health subject will be through closed multiple choice questions (test type), including 50 questions with 5 answers each and a single valid answer in each case. Qualification criteria: 0.2 points / correct question; 0.05 points will be subtracted for each question wrongly answered. Blank answers do not subtract. 25 questions will correspond to the theory topics and 25 questions to the practices, and will be assessed together to pass the course.



Before the exam, it is compulsory to have delivered to the Department the Practical Sessions Attendance Control sheet or, in the case of Erasmus students, the certificate of having completed them at the corresponding center.

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### **Algunas consideraciones sobre la prueba correspondiente al Módulo Medicina Legal**

La evaluación se efectuará mediante una prueba escrita de tipo ensayo, con una duración de dos horas y constará de dos ejercicios:

El primero (PE) de ellos evaluará el aprendizaje teórico y constará de 10 cuestiones de respuesta restringida cuya puntuación será de 0 a 2. La puntuación del PE será la suma total de las puntuaciones, dividido entre 2.

La máxima puntuación que puede obtenerse es 10.

El segundo (SE) de ellos evaluará el aprendizaje práctico y constará de 10 cuestiones de respuesta restringida cuya puntuación será de 0 a 2. La puntuación del SE será la suma total de las puntuaciones, dividido entre 2.

La máxima puntuación que puede obtenerse es 10. La puntuación final se obtendrá de aplicar la fórmula:  $(PPE + PSE)/2 = PF$  siempre que se haya obtenido al menos una puntuación de 5 en cada uno de los ejercicios.

De no alcanzarse las puntuaciones mínimas necesarias en alguno de los dos ejercicios la calificación quedará pendiente y deberá repetirse la correspondiente evaluación en la segunda convocatoria.

De no alcanzarse las puntuaciones mínimas necesarias en alguno de los dos ejercicios en la segunda convocatoria, la asignatura se considerará no superada en su totalidad.

Puntuar con cero en cuatro de las preguntas de cualquiera de las pruebas, supone el suspenso en ese ejercicio.

Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree subjects.

## **REFERENCES**

### **Basic**

- Hernández-Aguado I, Lumbreras Lacarra B, eds. Manual de Epidemiología y Salud Pública para Grados en Ciencias de la Salud. Madrid: Editorial Médica Panamericana; 2018.
- Rose G. La estrategia de la medicina preventiva. Barcelona: Masson-Salvat Medicina; 1994.
- Revista Gaceta Sanitaria. Disponible en: <https://www.gacetasanitaria.org/>
- Sitio web de la Sociedad Española de Salud Pública y Administración Sanitaria (SESPAS). Disponible en: <https://sespas.es/>



- Sierra López A, Saénz González MC, Fernández-Créhuet Navajas et al. (dirs.). Piedrola Gil. Medicina Preventiva y Salud pública. 12ª ed. Barcelona: Elsevier-Masson, 2016.
- Manual de medicina legal y forense para estudiantes de Medicina (1ª edición) Editado por José Antonio Menéndez de Lucas, Manuel Ruiz Cervigón, Luis Segura Abad y Maite Elegido Fluiters. Barcelona, Elsevier-Masson, 2014.
- Verdú Pascual, F. ¿Qué dice el forense? 3ª edición. Granada, Comares. 2014.
- Revistas de medicina legal y forense (disponible en <http://www.uv.es/fevepa/revi.html>, acceso el 12.04.16).
- PubMed médico forense (disponible en <http://www.uv.es/fevepa/medli.html> acceso el 12.04.16)
- Recursos-e Salut: ClinicalKey Student. Elsevier (Scopus, ScienceDirect)  
[uv-es.libguides.com/RecursosSalut/BibliotecaSalut](http://uv-es.libguides.com/RecursosSalut/BibliotecaSalut)