



Information about the subject

Degree: Bachelor of Science Degree in Medicine

Faculty: Faculty of Medicine and Health Sciences

Code: 342004 **Name:** Introduction to Medicine

Credits: 3,00 **ECTS Year:** 1 **Semester:** 2

Module: Diagnostic and therapeutical procedures.

Subject Matter: Diagnostic procedures **Type:** Elective

Field of knowledge: Health Science

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Diagnostic and therapeutical procedures.

Subject Matter	ECTS	Subject	ECTS	Year/semester
Diagnostic procedures	39,00	Basic Immunology	3,00	1/2
		Functional Assessment	6,00	This elective is not offered in the academic year 23/24
		Genetics	3,00	1/1
		Introduction to Medicine	3,00	1/2
		Laboratory of Diagnostic Tests	3,00	5/1
		Medical Microbiology and Parasitology	6,00	3/1
		Pathological Anatomy	6,00	2/2
		Physiological Records and Functional Tests	3,00	2/2
		Radiodiagnostic and Imaging Techniques	6,00	3/1
Therapeutic procedure	27,00	Anaesthesia and Resuscitation	3,00	5/1
		Biotechnology	6,00	This elective is not offered in the academic year 23/24
		General and Special Pharmacology	9,00	3/2



Therapeutic
procedure

General Procedures of
Intervention

6,00

This elective is not
offered in the
academic year
23/24

Rehabilitation and
Physical Therapy

3,00

4/2



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 Using different working techniques at the seminar
- R2 Search for bibliographic information from different sources and know how to analyze it in a critical and constructive spirit.
- R3 Learn the basics of medicine as science and profession.
- R4 Know the historical genesis of health, disease and medical practice
- R5 Distinguish the various health systems of the European Union.
- R6 Be familiar with the structure and operation of the Spanish National Health System.
- R7 Recognize the fundamental problems of scientific methodology and major scientific documentation techniques
- R8 Correctly interpret the specific characteristics of medical language.
- R9 Argue with rational criteria based on your work.
- R10 Search for bibliographic information from different sources and know how to analyze it in a critical and constructive spirit.
- R11 Being able to write an understandable and organized text on various medical topics
- R12 Know how to explore and assess vital signs and clinical signs.
- R13 Correctly perform eye bandage and basic joint bandages and immobilizations.
- R14 Know how to apply parenteral techniques: intramuscular, subcutaneous and endovenous access; venoclysis.
- R15 Properly practice elementary surgical procedures: cleaning, hemostase and wound suture.



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			
CG6	Developing professional practice with respect for other health professionals, acquiring teamwork skills		X		



CG12	Understanding the basis of action, indications and efficacy of therapeutic interventions, based on available scientific evidence	x			
CG23	Communicating effectively and clearly, both orally and in writing, with patients, family members, media workers and other professionals			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	

SPECIFIC		Weighting			
		1	2	3	4
CE61	Assessing the risk-benefit ratio of diagnostic and therapeutic procedures	x			

TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical and synthesis capacity		x		
CT2	Planification and organization capacity		x		
CT6	Manage information capacity		x		
CT9	Team work			x	
CT12	Interpersonal relationship skills		x		
CT14	Critical reasoning			x	
CT16	Individual learning		x		
CT18	Creativity		x		
CT24	Ability to take responsibility	x			
CT25	Autocriticism capacity			x	



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R3, R4, R5, R6, R7	0,00%	Open questions
R3, R4, R5, R6, R7	45,00%	Tests
R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15	30,00%	Practices
R1	5,00%	Participation in class
R12, R13, R14, R15	20,00%	Practice exam

Observations

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 Masterclass



M2	Problems resolution and practical cases
M4	Content presentations by teacher
M5	Knowledges and skills explanation
M6	Laboratory practices
M7	Oral presentation by student
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
M21	Supervision of clinical histories



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theory class M1, M4	R3, R4, R5, R6, R7, R8, R12	22,00	0,88
Practices in small groups M5	R8, R12, R13, R14	8,00	0,32
Tutoring M2	R9, R10, R12	4,00	0,16
Evaluation M5	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15	4,00	0,16
TOTAL		38,00	1,52

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2	R2, R3, R4, R5, R7, R8, R9, R10	37,00	1,48
TOTAL		37,00	1,48



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
I.- Basic concepts of Medicine and Health	<ul style="list-style-type: none">·Presentation of the subject. Concepts of Medicine as a science and as a profession. Historical genesis of health, disease and medical practice.·Introduction to research and communication in Medicine. Main scientific documentation techniques. Initiation to the bibliographic search in Medicine. Elementary bases of the design of a scientific work.·Fundamental ideas and problems of scientific methodology. Specific characteristics of medical language.
II: Basic knowledge for the practice of Medicine	<ul style="list-style-type: none">·Safety and hygiene measures in health personnel. Universal protection measures. Protocols for action after an accident due to puncture or contamination. Medical waste management·Health systems of the European Union. The Spanish health system, its structure and operation. Function of the different health professions. Medical specialties.
III: Basic health knowledge	<ul style="list-style-type: none">·Introduction to basic clinical examination: Detection and measurement of vital signs and clinical constants.·Introduction to parenteral techniques: intramuscular, subcutaneous and endovenous access; IV.·Introduction to the basic techniques of bandages and joint immobilizations. Correct eye bandage. Types of basic bandages according to their location and their shape. Bandaging of various anatomical regions for each student



Temporary organization of learning:

Block of content	Number of sessions	Hours
I.- Basic concepts of Medicine and Health	6,00	12,00
II: Basic knowledge for the practice of Medicine	8,00	16,00
III: Basic health knowledge	5,00	10,00



References

REFERENCE

- American Heart Association. 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science. *Circulation*. 2020;142(suppl 2):337–357; 2020
- Byrne, Daniel W. Publishing Your Medical Research Paper (2nd edition). Madrid. Wolters Kluwer Health, 2016. 364 pags.
- Cabré Pairet, Montserrat; Salmón Muñiz, Fernando (eds.) Sexo y género en medicina. Una introducción a los estudios de las mujeres y de género en ciencias de la salud. Santander, Publicaciones de la Universidad de Cantabria, 2013
- Clinica Universidad de Navarra. Diccionario médico *on line* gratuito.
<http://www.cun.es/diccionario-medico> [acceso 20 oct 2018]
- Cordón García, JA et al. Las nuevas fuentes de información: información y búsqueda documental en el contexto de la web 2.0. Madrid: Pirámide; 2010
- Dorland B. Diccionario enciclopédico ilustrado de medicina (30ªed). Madrid: Elsevier; 2007
- Laso Guzmán FJ. Introducción a la Medicina Clínica. 4ª Ed. Barcelona: Elsevier; 2020
- López Al et alii. Guías didácticas: experiencias de su empleo en la asignatura Introducción a la Medicina General Integral. EDUMECENTRO [Internet]. 2019 Mar [acceso 28-Dic-2020] ; 11(1): 121-131. Disponible en:
http://scielo.sld.cu/scielo.php?script=sci_arttext&pid=S2077-28742019000100121&lng=es.
- López Piñero JMª, Terrada Ferrandis MªL. Introducción a la Medicina. Barcelona: Libros de bolsillo; 2000
- López Piñero JMª, Terrada Ferrandis ML. Introducción a la terminología médica. 2ª ed. Barcelona: Masson; 2005.
- Merayo-Pérez A. Bravo-Pérez E. Gordón-Carbonell F. La comunicación con el paciente: habilidades emocionales para los profesionales de la salud. Madrid. Elsevier. 2014.
- Real Academia Nacional de Medicina. Diccionario de Términos Médicos. Madrid: Panamericana; 2011
- Sánchez González, MA. Historia de la medicina y humanidades médicas. Barcelona, Elsevier/Masson, 2012.
- World Health Organization. Health systems. (e-page) [access 29-12-2019]
<https://www.who.int/es/news-room/fact-sheets#A>
- Zabalegui Tamoz A, <http://2020.AmericanHeartAssociation.org> 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care [access 02 jan 2021]



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: