

Course Guide 42597 Medicine and clinical testing

Data Subject			
Code	42597		
Name	Medicine and clinical testing		
Cycle	Master's degree		
ECTS Credits	6.0		
Academic year	2023 - 2024		
Study (s)			
Degree		Center	Acad. Period year
2116 - M.U. en Bioi	nformática 12-V.1	School of Engineering	1 First term
Subject-matter			
Degree	485 38v	Subject-matter	Character
	nformática 12-V.1	12 - Medicine and clinical testing	Optional
2116 - M.U. en Bioi			
4			
Coordination		Department	
Coordination Name	, FRANCISCO JOSE	Department 190 - Physiology	

SUMMARY

The objective is to understand the doctor or pharmacist entitled not the general organization of the human body and its operating mechanisms and control basic pathophysiological processes then know the process of diagnosing a disease that is still in medicine, as data is generated as have access to them, and their advantages and limitations. This will explain the general concepts of health and disease, and diagnostic processes are established, the variety of additional tests that are used, and the basis of treatment.

In a second aspect will analyze the different methodologies used for the application of scientific method to medical research.



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PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

Is recommended prior review of materials previously studied Biology at least at the undergraduate level.

OUTCOMES

2116 - M.U. en Bioinformática 12-V.1

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Be able to access the information required (databases, scientific articles, etc.) and to interpret and use it sensibly.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.

LEARNING OUTCOMES

C1: General Knowledge of medical terminology. General classification of diseases. As a diagnosis.

C2: Know as The medical history of the patient. Signs and symptoms. Propaedeutic. Diagnostic tests. C3: Understand the limitations of diagnostic procedures and technologies in the service of medicine. C4: Know the various sources from which data can come from the study subjects

C5: Know the general criteria for drug delivery limitations and future developments. The figure of the clinical pharmacologist.

C6: Know the clinical types and their limitations and the relevant regulations.

C7: Knowing the types of basic and clinical studies used in Health Sciences



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DESCRIPTION OF CONTENTS

1. General concepts. Disease and syndrome

Concept of Health and Disease. Scales of physical capacity and quality of life. General nomenclature of the different aspects of the disease process.

2. Introduction to medicine (i). Anamnesis

Introduction to the diagnòstic processes of the disease. Evalaution of subjetive data and objetive

3. Introduction to medicine (ii). Diagnostic tests

General description of diagnostic tests. Sensibility, especificity, predictive values (postive and negative). Introduction to the evaluation of Health tecnologies

4. Clinic history. Electronic Registry of Health. Telemedicine and guides for automàtic decission of patients

New thechologies in storra processes and handling of Medical information. Electronic registries of Health.

Telemonitorization: their role in the follow-up of crònic-degenerative diseases new technologies for the resolution of Medical problems.

Patient Guided Systems

5. Nombre de la U.T. (English): Introduction to medicine (iii). Basic Pharmacology. Treatments , types and exemples.

General concepts in Pharmacology.

Eficacy and pharmacological toxicity.

New ways in the development and safe and useful use of drugs.

Pharmacogenomics

6. Introduction to medicine (iv). Preventive medicine. Pupulation Studies . Cohorts. Types of studies

Preventive medicine Utilization of epidemiology in the advances of medicine Stuides of total population Types of epidemiological studies



7. Introduction to medicine (v). Clinical assays. Types Ethics commitee. Legal considerations

Types of clinical assays and their role in the development of new terapeutcial interventions. Legal framework. Ethics of the clinical assays. Evidence based medicine.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	60,00	100
Attendance at events and external activities	5,00	0
Development of individual work	10,00	0
Study and independent work	30,00	0
Readings supplementary material	15,00	0
Preparation of evaluation activities	25,00	0
Preparing lectures	15,00	0
Preparation of practical classes and problem	5,00	0
Resolution of case studies	10,00	0
Resolution of online questionnaires	5,00	0
ΤΟΤΑ	L 180,00	5 N 1 N 1

TEACHING METHODOLOGY

MD1 - Task training of the teaching-learning environment interaction in the classroom through expository sessions. Previous assignments include preparation (information search, reading texts supplied by teachers), teaching sessions themselves and the later work of deepening.

MD2 - Learning through problem solving and case studies, through which it is acquiring skills on different aspects of materials and subjects.

MD4 - Cross-disciplinary skills. Include attendance at courses, conferences or round tables organized by the CEC of the Master and / or conduct of a bibliographic work on issues that contribute to the integral. It produces a reportonactivities

EVALUATION

SE1 Continuous Assessment: Minimum 5, maximum 15

SE3 Activities: Weight Minimum 10, maximum 20



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SE4: Exams: minimum 10, maximum 40

REFERENCES

Basic

- Referencia b1: Introduction to Clinical Medicine Part 1 in Harrison's: Principles of Internal Medicine McGraw Hill Companies
- Referencia b2: Foundations in Clinical Research Leslie Gross Portney and Mary P. Watkins (2008)
- Referencia b3: Tratado de Fisiología Médica de Guyton.11 edición (editorial interamericana)

Additional

- Referencia c1: TheLancet.com Home Page
- Referencia c2: http://www.nejm.org/
- Referencia c3: http://www.nature.com/nm/index.html