

SUBJECT TEACHING GUIDE

G124 - Human Physiology II

Degree in Medicine

Academic year 2021-2022

1. IDENTIFYING DATA					
Degree	Degree in Medicine			Type and Year	Compulsory. Year 2
Faculty	Faculty of Medicine				
Discipline	Basic Subject Area: Physiology Morphology, Structure and Function of the Human Body				
Course unit title and code	G124 - Human Physiology II				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. FISILOGIA Y FARMACOLOGIA				
Name of lecturer	CAROLINA ALONSO GONZALEZ				
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Other lecturers	ALICIA VERONICA GONZALEZ CABEZA				

3.1 LEARNING OUTCOMES

- This course, along with "General Physiology and Immunology", "Physiology I" and "Physiology III" courses, aims to provide sufficient knowledge to understand and describe the operation of the various systems of the healthy human body and the physiological control mechanisms that contribute to the maintenance of homeostasis in humans. The knowledge of how each of the parts of the body works will help students to understand how the body works as a whole. All as a basis for further understanding of the pathophysiology and mechanisms of production of the disease, the therapeutic bases and maintenance means and health prevention.

4. OBJECTIVES

1. Regarding the first block (metabolism) we want to get the student to acquire and integrated vision of the global metabolic pathways, focusing on the substrates transformations among different physiological situations (fasting, absorption period) and/or pathological disease (diabetes, obesity). All of a basis to further understand the mechanism of action of endocrine hormones.
2. Endocrinology aims to provide sufficient knowledge to understand and describe the synthesis , release, actions and regulation of the different hormones released by different endocrine glands , as well as the role they play in the regulation of physiological functions. Likewise, it will be important that the student has understood the integration of the actions of different hormones (synergistic and/or antagonistic effects) to regulate the same homeostatic variable.
3. Thirdly, this course aims to provide knowledge to recognize and describe the physiology of reproductive processes, including gonadal functions and mechanisms and actions of sexual hormones. It will be also important to understand the endocrine regulation of basic reproductive functions such as gametogenesis, sexual differentiation, puberty, fecundation and mammary gland development.
4. Finally, the student should know how the digestive system works, its motility, the secretion of the different parts and finally the digestion and absorption of the substrates.

6. COURSE ORGANIZATION

CONTENTS	
1	Five lessons in the first two weeks.
2	From week 2 to week 9. 21 lectures and 16 hours of practices related with the theoretic contents.
3	From week 9 to week 12. 5 lectures and 4 hours of practices related with the theoretic contents.
4	The last 3 weeks. 9 lectures.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
<p>CONTINUOUS ASSESSMENT OF KNOWLEDGE: It will be carried out through the presentation of papers and oral presentations regarding research papers related with the course, short written questions regarding the theoretic contents and through test questions answe</p>	Others	No	No	40,00
<p>Typology(*) Written exam of the theoretical and practical contents.</p> <p>Final evaluation Percentage(*) 60.00 Minimum calification 5.00</p> <p>Recoverable Recovery Conditions In September with an evaluation similar to that of June. Duration From 2 and a half hour</p>	Written exam	Yes	Yes	60,00
TOTAL				100,00
Observations				
<p>1. To pass the course Human Physiology II it is ESSENTIAL to obtain a minimum grade (3 out of 6) in the final exam (which represents 60% of the final grade). Furthermore, students MUST OBTAIN a minimum qualification in each question (it will be established by teachers) to demonstrate a basic knowledge from each question/block.</p> <p>2. Only when the requisites specified above were obtained, the continuous assessment mark throughout the semester will be added (up to 40% of the final grade).</p> <p>3. There will be a PARTIAL WRITTEN EXAM, that could be ELIMINATORY as long as the global mark exceeds 6 out of 10 AND students demonstrate a minimum knowledge in each question/block. The contents regarding this exam will be the ones explained until that time.</p> <p>4. The attendance to the practical classes is COMPULSORY for ALL the students , so much of first registration as successive.</p>				
Observations for part-time students				
Those students with partial registration on this course must contact with the lecturer before the beginning of the semester.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

El Departamento considera básico que cada alumno disponga de un libro de texto de Fisiología Humana

LIBROS GENERALES DE FIFIOLOGÍA:

1. J.A.F. Tresguerres. Fisiología Humana. 4ª edición (2010). McGRAW-Hill-Interamericana.
2. A.C. Guyton y J.E. Hall. Tratado de Fisiología Medica. 13ª edición (2016). Ed: Elsevier Saunder.
3. B.M. Koeppen y B.A. Stanton. BERNE y LEVI Principios de Fisiología. 7ª edición (2018). Ed. Elsevier Mosby.
4. R.A. Rhoades y D.R. Bell. FISIOLÓGÍA MÉDICA. FUNDAMENTOS DE MEDICINA CLÍNICA. 4ª edición (2012). Ed.: Wolters Kluwer.
5. G.J. Tortora y B. Derrickson. PRINCIPIOS DE ANATOMÍA Y FISIOLÓGÍA. 13ª edición (2013). Ed.: Panamericana.
6. D.U. Silverthorn. FISIOLÓGÍA HUMANA. UN ENFOQUE INTEGRADO. 6ª edición (2014). Ed.: Panamericana.
7. M.A. Dvorkin, D.P. Cardinali y R.H. Lermoli. Bases Fisiológicas de la práctica Médica. 14ª edición (2010). Ed: Panamericana.