Universidad Zaragoza

Academic Year/course: 2022/23

25641 - Human Anatomy II

Syllabus Information

Academic Year: 2022/23
Subject: 25641 - Human Anatomy II
Faculty / School: 127 - Facultad de Ciencias de la Salud
Degree: 605 - Degree in Physiotherapy
ECTS: 6.0
Year: 1
Semester: First semester
Subject Type: Basic Education
Module:

1. General information

1.1. Aims of the course

The general objective of this subject is to achieve a global and comprehensive outlook of the macro and microscopic structure of the human body. The study of the human anatomy provides a clear and precise knowledge of the structures that shape the human body, its organization, its layout in different legions and the relationships between their shape and functions. The anatomic knowledge is essential to understand the human being in its normal condition and the ways in which the healthy structures can present pathologies. It is not only the basis on which other subjects rely but also for the development of the curriculum of the professional practice inside the field of Health Sciences

This approach and objectives are set according to the following Objectives of Sustainable Development (OSD) of the agenda 2030 of the United Nations, so that the acquisition of the learning outcomes of the subject provides capability and competence to contribute to a certain extent to the achievement of the objective 3 (Health and wellbeing).

1.2. Context and importance of this course in the degree

Human Anatomy is considered as a basic subject in the training of the professionals related to it. It gives the student the basic knowledge to achieve an appropriate level for the understanding of other subjects of the formative program. It is taught in the first course of the studies and it lasts four months.

1.3. Recommendations to take this course

To study this subject it is advisable for the student to have some basic knowledge in Biology and Physiology. It is advisable the individual study since the beginning of the course in order to follow the theoretical classes and essential for the implementation in the practical classes and seminars. Likewise, it is advisable to have an atlas or a text with images which can help the students to identify and recognise the structures of the human body.

2. Learning goals

2.1. Competences

To know and understand the morphology, physiology, pathology and human?s behaviour, both healthy and ill, in the natural and social environment.
To understand the importance of updating the knowledge, abilities, skills and attitudes which form the

professional competences of the Physiotherapist.
Specific competences
To identify the anatomic structures as the basis of the knowledge to establish relationships in a dynamic way with the functional organization.
To know the physiological and structural changes which can have place as a consequence of the Physiotherapy.
Crosscircular competences
Ability to apply critical thinking
Ability of analysing and summarising
Ability to work on basis of quality criteria
Ability to use new technologies properly
Ability to develop skills for the management of information
Ability for criticism and self assessment

2.2. Learning goals

To pass this subject, the student should show the following outcomes:

1. Know the structures of the human body in a macro and microscopic way
2. Know, classify and describe the organs and structure that shape the different systems, their morphofunctional features and their main topographical relationships
3. It includes

2.3. Importance of learning goals

The anatomical knowledge is necessary to understand the human body in a normal condition and the way in which healthy structures can present pathologies. In this way, the learning outcomes obtained in this subject will allow the student to be better prepared to understand the theoretical of Physiotherapy, which are the basis for the development of their professional practice

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

3.1. Types of tests and its value in the final mark, evaluation criteria for each test.
The student should prove that he/she has achieved the learning outcomes through the following activities:
Final exam and progress tests: 90% of the final mark
Present tasks, reports and memories: 10% of the final mark
All the students will be assessed at the end of the term through a written exam which will consist of two parts:
1- Practice: Consisting in an analysis of four images related to the anatomical, theoretical and practical contents, related to the analysed material in the practical classes.
2- Theory: With a series of questions, between 6 and 10, referred to the contents of the program. These tests should be passed in a separate way with a mark of 5 or more points in each part. The average won?t be calculated if both parts are not passed.
The practices of the subject are mandatory in order to take the theory exam in the official calls. All the absences should be justified. The assessment of the practices will be continued through observation and direct monitoring in each session in the demonstration room and presented deadline of the practices notebook. The students who don?t attend at least 80% of the practical lessons should pass a written practical exam as a condition to be able to pass the subject.
The assessment tests will be done on-site if the situation allows it. If the situation changes, and if the instructions are given by the academic authorities, these assessments won?t be done on-site but use

the on-line resources of the University of Zaragoza, and it will be informed with enough time in advance.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The teaching-learning process of this subject is based on the following methodologies:

- Exhibition and participatory classes
- Demonstration room practices
- Theoretical and practical seminars
- Exhibition of individual or group works
- Review of works
- Tutorials
- Preparation of papers

4.2. Learning tasks

Theoretical class: 40 hours

Face-to-face theoretical classes, fulfilling the percentage of students stipulated by the Covid measures required at all times.

All classrooms where carried out will be equipped with a streaming camera that will facilitate students who are not present, follow the teaching in a synchronous way.

Seminars: 5 hours

Part of the seminars will be carried out in the demonstration room, in the A building of medicine with a corpse of human anatomical parts, so the students should wear a whitge lab coat and nitrile gloves.

Practical classes: 10 hours

The practices will be carried out in person and not face-to-face, in which a practice notebook will be prepared. In the case of not being able to do the face-to-face practices due to the sanitary hygienic measures assigned by the government at the time, they will be carried out following the tutorials that will be posted on the Moodle platform.

The practice notebook will be delivered, complete, of the practice classes following the templates that will be previously downloaded from Moodle, where they will be hung with sufficient time for the follow-up of these practices (face-to-face or online tutorials).

The date of presentation will be stipulated within the days following the completion of the last practice and the date of the final examination of the subject.

Student group work: 5 hours

As for group work, groups of 5 to 10 students will be established (depending on the circumstances) and a working topic will be assigned to each group. The works will be delivered by email in PowerPoint format.

Self-employment of the student 85 hours (non-face-to-face)

Tutorials

The realization of tutorials between the professors and the students will be carried out by videoconference or email by appointment and within the indicated schedules and still to be established.

4.3. Syllabus

1. NERVOUS SYSTEM: Generalities of the nervous system. CNS: Spinal cord, Brain. SNP: Nerves

spinal or spinal. Cranial nerves. Main nerve conduction pathways. nervous system

vegetative or autonomous. meninges. Cerebrospinal fluid. Vascularization of the Central Nervous System.

2. CARDIOCIRCULATORY SYSTEM: Heart. blood vessels. lymphatic system.

3. RESPIRATORY SYSTEM: Airways. Bronchial tree. Lungs and pleurae. mediastinum.

4. DIGESTIVE SYSTEM: Mouth. Salivary glands. pharynx. oesophagus. stomach. small intestine. large intestine. liver. pancreas.

5. UROGENITAL SYSTEM: Kidneys. Ureters. Urinary bladder. urethra. Male genital tract. Female genital tract.

6. ENDOCRINE SYSTEM: Endocrine glands.

8. SENSES: Somatic sensitivity: receptors. Special senses: sight, hearing, balance, smell and taste.

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4.4. Course planning and calendar

Theoretical classes in large group or 2 groups (depending on the health regulations in force due to Covid): 3h/week.

Face-to-face practices and seminars will be held according to the established schedules.

Delivery of the practice notebook: at the end of the semester and practical exam (if the practical evaluation is not passed throughout the course).

Final Exam in the official calls of January and June

The planned training activities will be carried out in person in the classrooms and rooms designated by the Center.

In case conditions change, and if instructions are received from the academic authorities, the activities will be modified and adapted to carry them out in non-face-to-face mode using the online resources of the University of Zaragoza, which will be notified in good time.

4.5. Bibliography and recommended resources

http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=25641