

Academic Year/course: 2022/23

25647 - Medical and Surgical Conditions

Syllabus Information

Academic Year: 2022/23

Subject: 25647 - Medical and Surgical Conditions

Faculty / School: 127 - Facultad de Ciencias de la Salud

Degree: 605 - Degree in Physiotherapy

ECTS: 9.0

Year: 2

Semester: Annual

Subject Type: Basic Education

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The learning process that has been designed for this subject is based on the following: The combination of theoretical classes in a large group, seminars in a smaller group (half students), small group work (two to four students), individual or smaller group tutotial and special importance of personal study.

4.2. Learning tasks

The program offered to the student to help achieve the expected results includes the following activities:

1- Theory sessions in large group (60 hours). Explanation and orientation for the personal study of the different contents of the subject, aiming towards the acquisition of competences and learning outcomes. All the resources of the directivity and of the interaction, and the diverse multimedia support will be used.

2- Problems and cases: Seminars in two groups (15 hours each group), distributed in eight seminars for each student, applying the theoretical bases of the subject and the practice of communication

3- Group work (15 hours each student). Will be done in small groups (2 to 4 students). It aims to stimulate initiative and personal creativity, teamwork, the management of documentary sources, the structuring of a logical discourse and the search and achievement of the conclusive synthesis. All of this is a prerequisite for research. It will focus on a suggested topic subject in relation to the contents of the subject.

4- Individual or smaller group tutotial.

5- Personal study (135 hours): The student should be responsible in the creation of structured schemes and work programs and in the context of the time spent for other subjects. It must represent the step of motivation, fostered with the learning activities described above, to the autonomous exercise of the will.

4.3. Syllabus

Thematic block I: Basic concepts / General principles

Introduction to Surgery.

Lesson 1- Complications and general care in surgical patients.

Lesson 2- Tegument trauma: Wounds. Contusion. Cicatrization. Pressure ulcers. Skin grafts.

Thematic block II: Thoracic disorders and respiratory diseases

Lesson 3- Chest wall deformities and thoracic trauma.

Lesson 4- Specific respiratory conditions.

Thematic block III: Traumatic and orthopaedic disorders in musculoskeletal system

Lesson 5- Bone trauma. Repair process.

Lesson 6- Soft tissues and joint injuries (ligaments, muscles and tendons).

Lesson 7- Upper extremity trauma.

Lesson 8- Orthopedic pathology of the upper extremities.

Lesson 9- Lower extremity trauma.

Lesson 10- Orthopedic pathology of the lower extremities. Osteochondral dystrophies.

Lesson 11- Spinal contusion without spinal cord injury.

Lesson 12- Spine curvature disorders.

Thematic block IV: Rheumatic disorders and pain syndromes of musculoskeletal system

Lesson 13- Joint rheumatism and special deformities.

Lesson 14- Spinal pain.

Lesson 15- Regional musculoskeletal pain syndromes.

Thematic block V: Central nervous system disorders

Introduction: Medical-surgical nervous system disorders.

Lesson 16- Congenital craniocerebral abnormalities. Hydrocephaly. Increased intracranial pressure.

Lesson 17- Vascular brain disorders.

Lesson 18- Disturbances of consciousness. Traumatic brain injury.

Lesson 19- traumatic spinal cord injury.

Lesson 20- Neurological disorders in pediatric patient: cerebral palsy.

Thematic block VI: Peripheral nerves disorders

Lesson 21- Nerve injury basic concepts. Obstetric brachial plexus palsy.

Lesson 22- Traumatic peripheral nerve injury in the upper extremity.

Lesson 23- Traumatic peripheral nerve injury in the lower extremity.

Lesson 24- Nerve entrapment syndromes of extremities.

Lesson 25- Inflammatory radiculopathies and polyneuropathies.

Thematic block VII: Peripheral vascular and cardiac disorders

Introduction Medical-surgical diseases of the cardiovascular system.

Lesson 26- Occlusive arterial diseases. Buerger's disease.

Lesson 27- Other vascular conditions: vascular trauma, aneurysms, arteriovenous fistulas, functional arterial disease.

Lesson 28- Venous diseases. Chronic venous insufficiency. Deep vein thrombosis. thromboembolism.

Lesson 29- Lymphatic system diseases: lymphangitis, adenitis, lymphedema and venous - lymphatic edema.

Lesson 30- Heart disease and rehabilitation. Cardiac transplant.

Seminars

Seminar 1- Asepsis and surgical and nosocomial infections.

Seminar 2- Determinations of respiratory function. Respiratory assist techniques.

Seminar 3- Thoracic pain syndromes.

Seminar 4- Spondyloarthritis. Arthroplasties.

Seminar 5- Seizures. Meningitis and encephalitis.

Seminar 6- Myelomeningocele and Other conditions of the spinal cord.

Seminar 7- Facial paralysis. Peripheral vertigo.

Seminar 8- Severe trauma patients: Basic and advanced life support.

4.4. Course planning and calendar

Calendar of face-to-face sessions and presentation of Works

- Theoretical classes in a large group: 2h / week throughout the academic year. (presentiality 100%)

- Seminars in two groups: 15h /academic year for two groups, distributed in 8 seminars (for each group), frequency one a month (presentiality 100%). - Individual or small group tutotial (presentiality 100%).

- Individual work delivery: last school day of may.
- Seminar progress tests at the end of each semester
- Voluntary theory examination: (eliminates subject matter) half-term
- Final official examination of theory of the whole subject at the end of the second semester (date approved by the center at june).
- Final official examination of theory of the whole subject at the **july** (date approved by the center).

The planned training activities will be carried out in person in the classrooms and rooms designated by the Center. In case the conditions change, and if instructions are received from the academic authorities, the activities will be modified and adapted to be carried out in a non-face-to-face mode using the online resources of the University of Zaragoza, which will be notified in advance.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Faculty health Sciences at the Zaragoza University.

4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=25647>