

Academic Year/course: 2022/23

## 26016 - Surgical medical conditions II

### Syllabus Information

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**Academic Year:** 2022/23

**Subject:** 26016 - Surgical medical conditions II

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

**Degree:** 276 - Degree in Occupational Therapy

**ECTS:** 9.0

**Year:** 3

**Semester:** Annual

**Subject Type:** Compulsory

**Module:**

## 1. General information

### 1.1. Aims of the course

General methodological presentation.

The learning process that has been designed for this subject is based on the following:

The combination of theoretical classes in big group, practical classes in small groups, an individual or group project and special attention will be paid to personal study.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDG) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the results learning of the subject provides training and competence to contribute to some extent to its achievement.

SDG 3

SDG 4

SDG 5

### 1.2. Context and importance of this course in the degree

The teaching of this subject is the responsibility of the Department of Physiatry and Nursing, within the Area of Knowledge of Physiotherapy. of Physiotherapy, made up of professors grouped around a common teaching and research disciplinary content common research.

This subject, the AMQII, represents the link between the basic subjects of the first year and others of the higher courses (including Medical and Surgical Conditions I (AMQI), which contains a second level of knowledge, related to the rest of the other systems and apparatuses.

This knowledge of the causes, clinical and epidemiological aspects, diagnostics and treatment of the different processes will allow access to the use and applications processes will allow access to the use and subsequent applications of specific techniques of this degree that are addressed in other subjects (Aids and Techniques) other subjects (Orthoprosthetic Aids and Techniques, Theories and Techniques of Occupational Therapy II and III, Public Health, Geriatrics and Psychiatry).

Above all, it is a link with the External Practical Stays I and II, where they come into contact with the reality of patients with physical or mental disabilities. patients with physical or psychic disabilities and their care centers.

### 1.3. Recommendations to take this course

It is needed to have basic knowledge about descriptive and functional Anatomy, cell metabolic routes, human genetics, cell Biology, human Physiology, normal anthropometric parameters, basic and evolutionary Psychology in basic and applied Science such as Psychology and Sociology. This is why is needed to have

passed the essential subjects of first degree.

Contents of this subject will be better profited if students have appropriate knowledge in health Science from high school (for instance, in Biology, Chemistry, general Cytology, Anatomy, Homeostasis and Physiology. It would be advisable too to possess some elementary skills in English and Computing (Windows, Office, net browsers?)

## 2. Learning goals

### 2.1. Competences

1. Know and understand the medical-surgical and psychiatric knowledge reported to human being on every moment of its life, from childhood to old age. This should give the ability to evaluate, synthetize and apply treatments from Occupation Therapy. *Según Orden CIN/729/2009, de 18 de marzo.*  
Employ the knowledge about human body structures and functions, in physiological and dysfunctional situations. *Según el libro blanco de la titulación de Terapia Ocupacional.*
1. Know and understand the physiopathology process in all moments of circle of life, identifying every problem and preventive and clinical situation of patient, healthy or ill. *Según Orden CIN/729/2009, de 18 de marzo.*  
Employ the knowledge about physio-pathologies and disabilities according to Occupational Therapy. *Según el libro blanco de la titulación de Terapia Ocupacional.*
1. Know, evaluate, analyse, create and participate in education and promotion health programs, inside the context of Occupational Therapy, in order to prevent from occupational dysfunctions in general and related to medical-surgical and psychiatric affection and maladjustment. *Según Orden CIN/729/2009, de 18 de marzo.*
2. Synthesize and apply the relevant knowledge about biological, medical, human, pedagogic, psychological, social, technological and occupational science, besides occupational and participative theories. *Según Orden CIN/729/2009, de 18 de marzo.*
3. Employ the knowledge about preventive medicine and therapy in medical-surgical affections, according to Occupational Therapy. *Según el libro blanco de la titulación de terapia ocupacional.*

### 2.2. Learning goals

This one is a compulsory subject inside Occupational Therapy Degree, from its third course. Nine E. C. T. S. will be reached at the end by each student.

Once finished, they will achieve the knowledge belonging to studied pathologies and medical-surgical affections, prevalent causes and treatments associated to breathing, cardiovascular, hematologic, digestive, renal system, sensitive organs and different pathologies, especially those which generate handicaps or disabilities. Considering this, the students will be able to create an evaluation and intervention plan for every circumstance. It will be really useful on their professional development as well as on their T. F. G. research on fourth degree, which finally will allow to show their professional competences.

### 2.3. Importance of learning goals

Outcomes will allow to be better prepared to understand theoretical and methodological basis from Occupational Therapy on a bio-psycho-social sight of human being. So, students will be better trained to start their professional way from the occupational therapeutic sight: illness or physical, sensorial, marginal situation of people along their cycle of life.

## 3. Assessment (1st and 2nd call)

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

The student must demonstrate that he/she has achieved the intended learning outcomes through the following. evaluation activities:

Theoretical-practical seminars (10% of the final grade). Attendance and active participation. Compulsory attendance to at least 85% of the sessions. Unexcused absence to more than 85% of the seminars will result in the student having to do a supervised work by the professor on the work supervised by the professor on the seminar(s) he/she has not attended in order to demonstrate that he/she has acquired the concepts explained in those seminars. concepts explained in those seminars.

Internships (10% of the final grade). They are compulsory and will be supervised at all times by the professors. Compulsory Attendance to at least 85% of the sessions. Failure to attend more than this percentage without a justified cause will result in the realization of a practical test in the official exam.

Presentation and defense of a paper (10% of the final grade). The rules for the evaluation of the work are published in the MOODLE OF THE COURSE, <https://moodle.unizar.es/add/>

Two voluntary written midterm exams (multiple-choice) that allow the release of the corresponding theoretical-practical content taught in both theoretical classes and theoretical-practical seminars (70% of the final grade).

EACH EXAM: Pass 20/30 questions.

Final Exam (1st call) for students who have not passed any of the mid-term exams or have not taken them. Official dates approved by the Board of the Center.

Final exam (2nd call) In the 2nd call and following ones, it will be of the whole subject. (multiple-choice test of 40 questions, 25/40 pass/ fail). Official dates approved by the Board of the Center.

GRADES OF PARTIAL EXAMS WILL NOT BE KEPT FOR THE FOLLOWING EXAMS.

(The grade of the WORK will be kept for one academic year). To pass the course it is essential to pass each of the parts.

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as the combination of lectures in big groups, practice sessions in small groups, an individual or group project and special attention will be paid to autonomous study.

### 4.2. Learning tasks

This course is organized as follows:

- **Lectures** (60 hours). (learning outcome result 1, 2, 3) Explanation and orientation for the personal study of the different contents of the subject, aiming at the acquisition of competences and learning results.
- **Theoretical-practical seminars in groups** (16 hours) (learning outcome result 4,5) Training on practical assumptions and problem solving individually and in teams, applying the theoretical bases of the subject and the exercise of communication.
- **Practice sessions** (14 hours) (learning outcome result 4, 5). Training on hypothetical scenario and resolution of problems both individually and in teams, using the theoretical bases of the subjects and the communicative exercise.
- **Individual project** (25 hours) (learning outcome result 4). It is aimed at the stimulation for the initiative and personal creativity, the use of bibliographical documental sources, the organization of a logical discourse and the searching and achievement of the concluding thesis.
- **Autonomous work and study** (101 hours) (learning outcome results 1, 2, 3, 4, 5). From the activities indicated the student must be responsible for the creation of schemes and structured working programs.

### 4.3. Syllabus

The course will address the following topics:

#### Section I.

##### I. Medical-Surgical Respiratory System Disorders

- Topic 1. Bronchial pathology. Bronchitis. Bronchiectasis.
- Topic 2. Bronchial asthma
- Topic 3. Cases of pneumonia.
- Topic 4. Pulmonary Tuberculosis.
- Topic 5. Pulmonary Hydatidosis.
- Topic 6. Pulmonary fibrosis.
- Topic 7. Pulmonary emphysema. Chronic obstructive pulmonary disease (COPD)
- Topic 8. Lung cancer

- VITAL SIGNS 1.
- Practice 2: VITAL SIGNS 2.
- Pulmonary Fibrosis. Pneumoconiosis.
- Session 1. Cystic fibrosis.
- Session 2. Respiratory insufficiency. Oxygen therapy.

## II. Medical-Surgical Heart and Pericardium Disorders

- Topic 9. Ischemic cardiopathy. Coronary insufficiency.
- Topic 10. Pulmonary embolism.
- Topic 11. Cardiac insufficiency. Acute pulmonary oedema.
- Topic 12. Bacterial endocarditis.
- Topic 13. Cardiomyopathy. Pericarditis.
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- Practice 3: Heart rhythm and conduction disorder. Cardiac arrest. Cardiorespiratory resuscitation.
- Practice 4: Infant CPR. Cardiac arrest. Cardio respiratory resuscitation
- Session 3. Congenital heart disease.

## Section II

### III. Medical-Surgical Vascular System Disorders

- Topic 14. Arterial thrombosis and embolism.
- Topic 15. Ischaemia chronic syndrome. Arteriosclerosis.
- Topic 16. Venous thromboembolic disease.
- Topic 17. Malign lymphoma. Hodgkin disease.

### IV. Hematologic pathology.

- Topic 18. Haemophilia.
- Practice 5. Leukaemia. Bone marrow transplant.

### V. Digestive system disorder.

- Topic 19. Esophagus pathology.
- Topic 20. Stomach and intestine pathology.
- Topic 21. Liver and gallbladder pathology.
- Topic 22. Pancreatic pathology.

### VI. Kidney pathology

- Tema 23. Acute and chronic renal insufficiency
- Session 4. Hemodialysis. Peritoneal dialysis. Kidney transplant.

### VII. Injuries or trauma by physical agents

- Practice 6. Burns.
- Session 5. Injuries induced by cold. Freezing cold injury.
- Session 6. Injuries induced by ionizing radiation.

### VIII. Endocrine system pathology.

- Topic 24. Thyroid gland disorder. Tumours.
- Topic 25. Pituitary and hypothalamus disorder.
- Topic 26. Suprarenal glands disorder.
- Practice 7. Diabetes. Alternative therapeutics.

### IX. Miscellaneous

- Topic 27. AIDS. Therapeutics aspects
- Topic 28. Breast cancer.
- Topic 29. Larynx pathology. Larynx cancer. Tracheotomy.
- Visual anomalies. Refractive Disorders. Cataract. Glaucoma
- Session 7. Ear disorder. Otosclerosis. Professional deafness. Neoplasms. Meniere's disease.
- Session 9. OT and palliative care

#### **4.4. Course planning and calendar**

Schedule of face-to-face sessions and presentation of work

Theoretical classes in large groups: 4h/week in the two corresponding modules (1 and 3) according to the official timetable approved by the Center. approved by the Center.

Practical classes and seminars in small groups: 1 practical class every 15 days, and 1 seminar per week (according to the timetable/group timetable/group distribution). Attendance is compulsory for 85% of the classes. Delivery of individual work: at the end of each module (1 and 3).

Students must deliver a group work (3-5 students), defended publicly for 10-15'. Throughout the The days of presentation will be established throughout the course.

Two partial theory exams (including contents of face-to-face classes and theoretical-practical seminars) at the end of the course. Theoretical-practical seminars) at the end of each of the theoretical blocks of the program (I and II) coinciding with the end of the teaching of each theoretical module. of each theoretical module.

Final exam-global test (including contents of the classroom lectures and theoretical-practical seminars): according to the official dates approved by the dates of the official exams approved by the Faculty Board.

#### **4.5. Bibliography and recommended resources**

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26016>