

26016 - Surgical medical conditions II

Syllabus Information

Academic Year: 2021/22

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 program offered to students to help them achieve the expected results involves the following activities:

1: on-site theoretical classes in each group (50 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.

2: theoretical-practical on-site seminars in groups (37.5 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.

3: individual work (12, 5 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.

4: Personal study (150 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.

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)

Students must prove their acquisition of learning standards through the following evaluation activities:

- Active participation on theoretical-practical seminars, evaluated through a perceptive system in order to gain admission to the official final exam. Compulsory attendance (at least 85% of classes).
- Two partial writing exams (test system). They are optional and allow to skip theoretical contents as much as practical ones (once passed them). 90% of final mark.
 - To pass them is needed to take at least 29 points out of 40 in each one.
- Final exam (on June and September, established by department). Whole exam for students who did not pass one or both partial exams or did not attend to them. 100% of final mark.
 - If only one partial has been failed, is need to take at least 21 points out of 30.
 - If both are failed or the final exam is reached in September, is needed to take at least 42 points out of 60.
- Academic work, written and presented by small groups (from three to five people). It is about a health problem and its clinical monitoring. Oral skills will be tested. 10% of final mark.
 - Writing criteria: from eight to ten pages, A4 size, double spacing, 12 points typography, Vancouver bibliography.
 - Qualification criteria:

<http://www.unizar.es/mabueno/wp-content/uploads/2015/06/Rubrica%20trabajos%20AMQI-II.pdf>

To take the average of final mark, all partial parts must be passed. None of them -but academic work- will be saved to next call.

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** (50 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.
- **Practice sessions** (37.5 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** (12. 5 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** (150 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. Cystic fibrosis.
- Topic 8. Pulmonary emphysema. Chronic obstructive pulmonary disease (COPD)
- Topic 9. Lung cancer
- Topic 10. Respiratory insufficiency. Oxygen therapy.

II. Medical-Surgical Heart and Pericardium Disorders

- Topic 11. Ischemic cardiopathy. Coronary insufficiency.
- Topic 12. Pulmonary embolism.
- Topic 13. Cardiac insufficiency. Acute pulmonary oedema.
- Topic 14. Bacterial endocarditis.
- Topic 15. Cardiomyopathy. Pericarditis.
- Topic 16. Heart rhythm and conduction disorder.
- Topic 17. Congenital heart disease.
- Topic 18. Cardiac arrest. Cardiorespiratory resuscitation.

Section II

III. Medical-Surgical Vascular System Disorders

- Topic 19. Arterial thrombosis and embolism.
- Topic 20. Ischaemia chronic syndrome. Arteriosclerosis.
- Topic 21. Venous thromboembolic disease.
- Topic 22. Malign lymphoma. Hodgkin disease.

IV. Hematologic pathology.

- Topic 23. Haemophilia.
- Topic 24. Leukaemia. Bone marrow transplant.

V. Digestive system disorder.

- Topic 25. Esophagus pathology.
- Topic 26. Stomach and intestine pathology.
- Topic 27. Liver and gallbladder pathology.
- Topic 28. Pancreatic pathology.

VI. Kidney pathology

- Tema 29. Insuficiencia renal aguda y crónica.
- Topic 29. Acute and chronic kidney failure.
- Tema 30. Hemodiálisis. Diálisis Peritoneal. Trasplante renal.
- Topic 30. Hemodialysis. Peritoneal dialysis. Kidney transplant.

VII. Injuries or trauma by physical agents

- Topic 31. Burns.
- Topic 32. Injuries induced by cold. Freezing cold injury.
- Topic 33. Injuries induced by ionizing radiation.

VIII. Endocrine system pathology.

- Topic 34. Thyroid gland disorder. Tumours.
- Topic 35. Pituitary and hypothalamus disorder.
- Topic 36. Suprarenal glands disorder.
- Topic 37. Diabetes. Alternative therapeutics.

IX. Miscellaneous

- Topic 38. AIDS. Therapeutics aspects
- Topic 39. Breast cancer.
- Topic 40. Visual anomalies. Refractive Disorders. Cataract. Glaucoma
- Topic 41. Ear disorder. Otosclerosis. Professional deafness. Neoplasms. Meniere's disease.
- Topic 42. Larynx pathology. Larynx cancer. Tracheotomy.

PRACTICE SESSIONS

Section I

- Session 1. VITAL SIGNS.
- Session 2. INTERSTITIAL FIBROSIS
- Session 3. Congenital heart disease.
- Session 4. CPR BASIC LIFE SUPPORT (laboratory practice)(Psychiatric Nursing Department Classroom. Room B School of Medicine).

Section III

Section III

- Session 5. IONIZING RADIATION
- Session 6. LEUKAEMIA
- Session 7. BURNS AND FROSTBITE INJURY
- Session 8. DIABETES MELLITUS
- Session 9. EAR AND VISUAL DISORDERS.

4.4. Course planning and calendar

Schedule of on-site sessions and projects presentation.

- Lectures: 4/week in the two four-month periods corresponding to modules 1 and 2, established by the school.
- Practice sessions: 2 /week /4 groups. The attendance is compulsory for 85% of them.
- Individual project deadline: When finishing every theoretical Module (1, 3)
- Two theory mid-term exams that eliminate material (they contain material from the on-site classes and the theoretical-practical seminars) when every theoretical Block of the program (I and II) that coincides with the final of the teaching period of each Module has finished.
- Final exam (including the contents of the theory-practice sessions) June- September: according to the official call of the Centre. NO MARKS FROM MIDTERM EXAMS ARE KEPT FOR FOLLOWING CALLS (the project mark is maintained during the academic year).

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 of Health and Sport Sciences website and Moodle.

Degree website: <https://estudios.unizar.es/estudio/ver?id=109>

4.5. Bibliography and recommended resources

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