

BSc in Physiotherapy

INTEGRATED COURSE TITLE: INTERDISCIPLINARY CLINICAL SCIENCES II
NUMBER OF ECTS CREDITS: 4
SSD: MEDS-07/A, MEDS-07/B
MODULE CONVENOR: PROF. ACHILLE GASPARDONE
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MODULE: RESPIRATORY SYSTEM DISEASES
NUMBER OF ECTS CREDITS: 2
SSD: MEDS-07/A
PROFESSOR : [LUIGINO CALZETTA](#)

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MODULE: CARDIOVASCULAR SYSTEM DISEASES
NUMBER OF ECTS CREDITS: 1
SSD: MEDS-07/B
PROFESSOR: [ACHILLE GASPARDONE](#)

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MODULE: CARDIOVASCULAR SYSTEM DISEASES
NUMBER OF ECTS CREDITS: 1
SSD: MEDS-07/B
PROFESSOR: [GREGORY A. SGUEGLIA](#)

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PREREQUISITES

Although there are no propaedeuticities, general knowledge of the anatomy of the cardiovascular and respiratory systems, human physiology and general knowledge of cardiovascular pathology are required.

LEARNING OBJECTIVES

The course aims to provide the basic principles of the major diseases of the respiratory and cardiovascular systems, with hints of clinical practice from a care perspective useful to the physical therapist. In addition, in diseases involving surgical treatment, the role of the physical therapist will be explored.

LEARNING OUTCOMES

Knowledge and Understanding

At the end of this course the student will have to know :

- Know the anatomy and the physiopathology of the cardiovascular system
- Know the basic principles of cardiovascular semeiology
- Know the non-invasive and invasive cardiovascular diagnostic methods
- Know the main cardiovascular diseases
- Know the basics of cardiovascular therapy
- Know the correct diagnostic procedure for pulmonary diseases
- Know how to identify the boundary between conservative and surgical treatment.

Applying knowledge and understanding

At the end of the course, the student will be able to use the knowledge acquired for the autonomous investigation of aspects related to the specific field to which he or she will devote himself or herself in the field of professional activity.

Communication skills

At the end of the teaching, the student should be able to use specific scientific terminology appropriately.

Making judgements

By the end of the teaching, the student should be able to make broad evaluations related to the topics covered.

Learning Skills

The student will have acquired skills and learning methods suitable for deepening and improving their knowledge and skills in the field of rehabilitation sciences, also through consultation of scientific literature.

COURSE SYLLABUS

Syllabus Respiratory System Diseases

The study and clinical-functional evaluation of the respiratory function in its components: mechanics, ventilation, perfusion and diffusion. Respiratory diseases of obstructive, restrictive and hypersecretory nature: asthma, chronic bronchitis, emphysema, COPD, bronchiectasias, cystic fibrosis. Evaluation and preparation of the patient to undergo cardio-pulmonary surgery. Tobacco smoking and related diseases. Aspects of rehabilitation and mechanical ventilation.

Syllabus Cardiovascular System Diseases

The basic principles of cardiovascular anatomy and pathophysiology. Cardiovascular semeiology. Non-invasive and invasive cardiovascular diagnostic techniques. Ischemic heart disease. Heart failure. Arrhythmias. The valvulopathies. Cardiomyopathies. Systemic arterial hypertension. Pulmonary embolism. The paradoxical embolism. The basics of cardiovascular rehabilitation. Principles of cardiovascular therapy.

COURSE STRUCTURE

The Teaching is structured in 40 hours of frontal teaching. Attendance is compulsory for at least 75% of the summed hours on all integrated course teachings.

COURSE GRADE DETERMINATION

The method of verifying the subjects covered by the Integrated Course provides for an oral exam. During the oral exam, the examining commission will evaluate the student's ability to apply the knowledge and will ensure that the skills are adequate to support and solve problems in the respiratory and cardiological fields.

The following will also be evaluated: making judgements, communication skills and learning skills.

For the attribution of the final grade, the following criteria will be adopted:

Unsuitable: Poor or lacking knowledge and understanding of the topics; limited capacity for analysis and synthesis, frequent generalizations of the required contents; inability to use technical language.

18-20: Just enough knowledge and understanding of topics, with obvious imperfections;

just sufficient capacity for analysis, synthesis and independent judgement; poor ability to use technical language.

21-23: Sufficient knowledge and understanding of topics; sufficient capacity for analysis and synthesis with the ability to logically and coherently argue the required contents; sufficient ability to use technical language.

24-26: Fair knowledge and understanding of the topics; discrete capacity for analysis and synthesis with the ability to rigorously argue the required contents; Good ability to use technical language.

27-29: Good knowledge and understanding of required content; good capacity for analysis and synthesis with the ability to rigorously argue the required contents; good ability to use technical language.

30-30L: Excellent level of knowledge and understanding of the requested contents with an excellent capacity for analysis and synthesis with the ability to argue the requested contents in a rigorous, innovative and original way; Excellent ability to use technical language.

READING MATERIALS

RESPIRATORY SYSTEM DISEASES

West's Pulmonary Pathophysiology, Lippincott Williams and Wilkins, ISBN 9781496339447

CARDIOVASCULAR SYSTEM DISEASES

Hurst's the heart manual of cardiology

Valentin Fuster, Robert O'Rourke, Richard Walsh

Manual of Cardiology

Kanu Chatterjee

Manual of Cardiovascular Medicine

Brian P. Griffin

Walk-in appointments will be offered on dedicated Wednesday from 13.00 - 14:00 at the end of the 4 hours lectures, ground floor, Students' Counseling Office.