



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata
ACADEMIC YEAR	2023/2024
BACHELOR'S DEGREE (BSC)	BIOMEDICAL LABORATORY TECHNIQUES
INTEGRATED COURSE	INTERNAL MEDICINE AND IMAGE DIAGNOSTICS - INTEGRATED COURSE
CODE	15230
MODULES	Yes
NUMBER OF MODULES	2
SCIENTIFIC SECTOR(S)	MED/09, MED/36
HEAD PROFESSOR(S)	PARRINELLO GASPARE Professore Associato Univ. di PALERMO
OTHER PROFESSOR(S)	PARRINELLO GASPARE Professore Associato Univ. di PALERMO
CREDITS	6
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	3
TERM (SEMESTER)	2° semester
ATTENDANCE	Mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	PARRINELLO GASPARE Monday 11:00 13:00 Dibimis Thursday 11:00 13:00 Dibimis

DOCENTE: Prof. GASPARE PARRINELLO

PREREQUISITES	Knowing the human physiology
LEARNING OUTCOMES	Knowing and understanding the basic concepts of internal medicine and diagnostic imaging
ASSESSMENT METHODS	The sufficiency threshold will be reached if the student shows knowledge and understanding of the issues at least in broad outline, and has application skills sufficient; he must also have presentation and argumentative skills allowing the transmission of his knowledge to the examiner. Below this threshold, the examination will be insufficient. The more the candidate will be able to interact with the examiner with his argumentative and presentation skills, and the more his knowledge and application capabilities will go into detail on the subjects under evaluation, the more the judgement will be positive. The evaluation is expressed using a 30-point scale. ECTS grades: A – A+ Excellent (30-30 cum laude) - Grade descriptors : Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems. ECTS grade : B Very good (27-29) - Grade descriptors: Good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity. ECTS grade: C Good (24-26)- Grade descriptors: Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity ECTS grade: D Satisfactory (21-23)- Grade descriptors: Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge. ECTS grade: E Sufficient (18-20) - Grade descriptors: Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge. ECTS grade: F Fail (1-17) - Grade descriptors: Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge. Exam failed.
TEACHING METHODS	Lectures and tutorials

**MODULE
IMAGE DIAGNOSTICS AND RADIOTHERAPY**

SUGGESTED BIBLIOGRAPHY

Dispense del docente
Cittadini. Diagnostica per immagini e radioterapia. Ediz. illustrata Copertina flessibile – 30 giu 2015

AMBIT	10350-Scienze della prevenzione e dei servizi sanitari
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

Acquire basic knowledge on ionizing and non-ionizing radiation, health problems related to radiation exposure and relative legislative principles that protect workers exposed to radiation-associated risks. Acquire radiation exposure prevention methods. Acquire patient management methods in a radiology or nuclear medicine unit.

SYLLABUS

Hrs	Frontal teaching
8	Knowledge of fundamentals of physics, characterization of ionizing radiation, health problems related to exposure to ionizing radiation
2	Non-ionizing radiation: physical characteristics and application in diagnostic imaging.
8	Principles of Radiobiology
2	Contrast media: classification and characteristics; clinical applications; adverse reactions and related measures. Patient preparation and management.
8	Risks related to exposure to radiation and protective devices. Examples and discussion.
2	Italian Health legislation with particular regard to the principles of applicability of radiation protection for workers exposed to radiation-related risks. Assessment of risks related to radiation exposure.

MODULE INTERNAL MEDICINE

Prof. GASPARE PARRINELLO

SUGGESTED BIBLIOGRAPHY

HARRISON. PRINCIPI DI MEDICINA INTERNA,
Passi scelti indicati dal docente ed eventuale integrazione con materiale didattico fornito dal docente"

AMBIT	10339-Primo soccorso
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims to give students the knowledge on internal pathologies of interest in the context of the biomedical laboratory. It will be discussed in details the epidemiology, etiology, pathogenesis as well as symptoms, diagnosis, and prognosis of internal pathologies of more frequent observation in the context of biomedical laboratory. approaches

SYLLABUS

Hrs	Frontal teaching
2	Internal medicine and the clinical method The anamnesis: family and personal; pathological remoteness and near
2	Arterial hypertension: epidemiology, pathophysiology and diagnosis with particular reference to laboratory parameters useful for defining the primary pathology that causes it
2	Acute heart attack, acute pulmonary edema: epidemiology, pathophysiology and laboratory diagnosis
4	Acute anterior chest pain: angina pectoris. epidemiology, pathophysiology and laboratory diagnosis
2	Congestive heart failure: epidemiology, pathophysiology and laboratory diagnosis
2	Pulmonary embolism: lipodimia, syncope. The role of laboratory investigations
2	Endocarditis, pericarditis and myocarditis: epidemiology, pathophysiology and laboratory diagnosis
4	Nosocomial and community pneumonia: epidemiology, pathophysiology and laboratory diagnosis
2	Sepsis and septic shock: epidemiology, pathophysiology and laboratory diagnosis
2	Fever of unknown origin (FUO): epidemiology and laboratory diagnosis
2	Connectivitis and vasculitis: epidemiology, pathophysiology and laboratory diagnosis
2	cirrosis: epidemiology, pathophysiology and support for laboratory
2	Acute and chronic renal failure, Glomerulonephritis and Glomerulonephrosis: epidemiology, pathophysiology and laboratory diagnosis