

COURSE DETAILS

"MEDICAL, SURGICAL, CLINICAL METHODOLOGY I"

SSD MED/09; MED/18; NED/42/M-PSI-08

DEGREE PROGRAMME: MEDICINE AND SURGERY

ACADEMIC YEAR 2024-2025

GENERAL INFORMATION-TEACHER REFERENCES

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Faculty	Position	Scientific Fields	Phone	Reception (day/time/building)	E-mail
Cittadini Antonio	Full Professor	Internal Medicine	4375	Monday/12:00-13:00/Bldg 18	antonio.cittadini@unina.it
Marra Alberto M.	Associate Professor	Internal Medicine	2026	Tuesday 14:00-15:00/Bldg 18	albertomaria.marra@unina.it
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Gianluca Rompianesi	Assistant Professor	General Surgery	2896		gianluca.rompianesi@unina.it
Vitelli Roberto	Associate Professor	Clinical Psychology	3458	Students can send an email to request a consultation	rvitelli@unina.it

Raffaele Palladino	Associate Professor	Hygiene	3354	Students can send an email to request a consultation	raffaele.palladino@unina.it
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE (IF APPLICABLE): MEDICAL, SURGICAL, CLINICAL METHODOLOGY

IMODULE (IF APPLICABLE):

SSD OF THE MODULE (IF APPLICABLE):

TEACHING LANGUAGE: ENGLISH

CHANNEL (IF APPLICABLE):

YEAR OF THE DEGREE PROGRAMME (I, II, III): III

SEMESTER (I, II, ANNUAL): I

CFU: 10

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses

PREREQUISITES (IF APPLICABLE)

Basic concepts of Human Anatomy, Human Physiology I

LEARNING GOALS

The course aims at providing students a comprehensive understanding of medical care, surgical interventions, and the systematic approach to clinical practice. The course is designed to bridge the gap between theoretical knowledge and practical skills, preparing students for their clinical rotations and eventual careers as medical professionals.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student will acquire the fundamental knowledge of

Clinical Reasoning: Develop the ability to gather patient information, identify relevant clinical data, and apply critical thinking to formulate accurate diagnoses and treatment plans.

Pathophysiology: Understand the underlying mechanisms of diseases and their impact on various body systems, helping to guide clinical decision-making.

Diagnostic Skills: Learn to interpret medical history, physical examination findings, and diagnostic tests to arrive at precise diagnoses.

Patient Management: Acquire skills in managing common medical conditions, including prescribing appropriate medications, monitoring progress, and addressing patient concerns.

Ethical Considerations: Understand ethical and legal aspects of patient care, respecting patient autonomy and confidentiality.

Effective Communication: Develop communication skills for discussing diagnoses, treatment options, and prognosis with patients and their families.

Applying knowledge and understanding

the course aims to produce well-rounded medical students who can seamlessly transition from classroom learning to practical application in clinical settings. This approach ensures that students are equipped with the knowledge, skills, and ethical foundations necessary for providing quality medical care and contributing meaningfully to the healthcare field.

COURSE CONTENT/SYLLABUS

The course deals with the general understanding of medical care, surgical interventions, and the systematic approach to clinical practice. The following topic will be addressed:

1. Family and personal anamnesis
2. Detection and interpretation of cardiovascular symptoms

3. Detection and interpretation of abdominal symptoms
4. Pathophysiology of:
dyspnea, chest pain, tachycardia, bradycardia, heart and vascular murmurs, nausea, vomiting, pyrosis, hematemesis, melena, jaundice, constipation, diarrhea, rectal bleeding, abdominal pain, polyuria, dysuria, vesical tenesmus, hematuria, oliguria
5. Examination of cardiovascular system
6. Examination of abdomen
7. Evaluation of wounds and skin lesions
8. Diagnostic evaluation of hernia
9. Diagnostic evaluation of breast
10. Diagnostic evaluation of thyroid nodules
11. Role of clinical epidemiology in clinical practice: rates, proportions, indices. Sensibility, specificity, positive and negative predictive values of clinical symptoms/signs and diagnostic tests
12. Descriptive studies, cross-sectional studies, prospective cohort studies, case control studies, time trend analysis, experimental studies
13. Principles of medical psychology
14. Relational skills in medical care.

SCHEDULE OF THE COURSE			
Week	Day	Lesson	Professor
1° Oct. 7-11 2024	Mon.	Introduction to physical examination	Cittadini
	Tue.	General principles of history taking	Cittadini
	Wed.	“Facies”: how to “face” a disease	Arcopinto
	Thu.	Abdominal physical examination	Aprea
	Fri.	Mechanisms of nausea, vomiting and hiccups.	Aprea
2° Oct. 14-18 2024	Mon.	Cardiovascular physical examination	Cittadini
	Tue.	Blood pressure measurement. Management of Hypertension and Hypotension	Mancusi
	Wed.	Chest Pain: an overview	Marra
	Thu.	Dispnea: an overview	Marra
	Fri.	Cyanosis: an overview	Tocchetti
3° Oct. 21-25 2024	Mon.	Basic principles of ECG	Tocchetti
	Tue.	What is an Arrhythmia?	Tocchetti
	Wed.	Principles of echocardiography.	Mancusi
	Thu.	Understanding Shock	Mancusi
	Fri.	Clinical examination of the peripheral vascular system	Giallauria
4° Oct 28-31 2024	Mon.	Invasive and non-invasive evaluation of veins and arteries	Giallauria
	Tue.	Pathophysiology of vascular disease (Part 1)	Giallauria
	Wed.	Pathophysiology of vascular disease (Part 2)	Giallauria
	Thu.	Edema	Arcopinto
5° 4-8 Nov 2024	Mon.	Physical Examination of the Respiratory System	Marra
	Tue.	Lung Function tests	Marra
	Wed.	Imaging of the Lungs	Marra
	Thu.	Evaluation of Cough	Cittadini
	Fri.	Basic Principles of Nervous System Physical Examination	Femminella
6° Nov. 11-15 2024	Mon.	Non-invasive diagnostics of the Nervous System	Femminella
	Tue.	What Skin can tell us about diseases	Femminella
	Wed.	How to interpretate laboratory tests	Arcopinto
	Thu.	Obesity and metabolic diseases	Napoli
	Fri.	Hyperglycemia and Hypoglycemia	Napoli
7° Nov. 18-22 2024	Mon.	Physical examination of the Liver	Napoli
	Tue.	Liver Diseases	Napoli
	Fri.	Gastro-intestinal bleedings (hematemesis, melena)	Aprea
	Mon.	Dysphagia, Costipation and diarrhea	Aprea

	Tue.	Diagnostic evaluation of hernias	Giglio
8° Nov 25-29 2024	Wed.	Abdominal Pain: mechanisms	Giglio
	Thu.	Acute abdominal syndromes	Giglio
	Fri.	Physical examination of the Breast and Breast surgery	Giglio
	Mon.	Physical Assessment of head and neck	Rompianesi
	Tue.	Physical examination of the Thyroid Gland and Thyroid Surgery	Rompianesi
9° Dec 2-6 2024	Wed.	Pancreatic diseases and their surgical treatment	Rompianesi
	Thu.	Diseases of the Biliary tract and their surgical treatment	Rompianesi
	Fri.	Endoscopy	Rompianesi
	Thu.	The scope and purposes of epidemiology. Introduction to EBM	Palladino
	Fri.	Classification of epidemiological studies designs. Descriptive studies. How to read a scientific paper.	Palladino
10° Dec 9-13 2024	Mon.	Cross-sectional studies. Measures of disease frequency and association. The principles of sanitary economy	Palladino
	Tue.	Principles and practice of screening for disease	Palladino
	Wed.	Cohort studies	Palladino
	Thu.	Metanalysis. The screening in medical practice	Palladino
	Fri.	Clinical Psychology and medical practice: a general introduction	Vitelli
11° Dec. 16-20 2024	Mon.	Cognitive biases associated with medical decisions	Vitelli
	Tue.	Emotions, feelings and affective biases in clinical practice	Vitelli
	Wed.	Personality traits and treatment compliance	Vitelli
	Thu.	Attachment behavioral system and mentalizing skills in medical care.	Vitelli
	Fri.	Evidence and Values-Based Practice (EBP and VBP)	Vitelli

The clinical clerkship will begin on November 4th, 2024 (from Monday to Thursday 8.30 a.m. - 11.30 a.m.) and will finish on December 13th, 2023. The clerkship location will be communicated in due course. The interactive learning activities will be performed on Friday mornings (8:30-11:30) following the same time frame of the formal lectures.

READINGS/BIBLIOGRAPHY

Suggested textbooks:

Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2), 2018

Dennis L. Kasper, Anthony S. Fauci, Stephen L. Hauser, Dan L. Longo

McGraw-Hill Education / Medical; 20 edition (August 17, 2018)

Language: English

ISBN-10: 1259644030

ISBN-13: 978-1259644030

Macleod's Clinical Examination - 14th Edition

Editors: J. Alastair Innes Anna Dover Karen Fairhurst

Paperback ISBN: 9780702069932

Paperback ISBN: 9780702069925

eBook ISBN: 9780702069918

eBook ISBN: 9780702069901

Imprint: Elsevier

Published Date: 11th June 2018

TEACHING METHODS

Frontal lessons, interviews on student request for further information and clarifications, training activities. Clerkship activities will focus on practical aspects of what is discussed at lectures.

EXAMINATION/EVALUATION CRITERIA

a) Exam type:

Examtype	
writtenandoral	
onlywritten	X
onlyoral	
project discussion	
other	

In case of a written exam, questions refer to:	Multiple choiceanswers	X
	Open answers	
	Numericalexercis es	

b) Evaluation pattern:

Written text