

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata	
ACADEMIC YEAR	2016/2017	
BACHELOR'S DEGREE (BSC)	BIOMEDICAL LABORATORY TECHNIQUES	
INTEGRATED COURSE	SYSTEMATIC PATHOLOGY - INTEGRATED COURSE	
CODE	13669	
MODULES	Yes	
NUMBER OF MODULES	2	
SCIENTIFIC SECTOR(S)	MED/13, MED/12	
HEAD PROFESSOR(S)	PIZZOLANTI GIUSEPPE Ricercatore Univ. di PALERMO	
OTHER PROFESSOR(S)	PIZZOLANTI GIUSEPPE Ricercatore Univ. di PALERMO	
	CALVARUSO VINCENZA Professore Associato Univ. di PALERMO	
CREDITS	6	
PROPAEDEUTICAL SUBJECTS		
MUTUALIZATION		
YEAR	3	
TERM (SEMESTER)	1° semester	
ATTENDANCE	Mandatory	
EVALUATION	Out of 30	
TEACHER OFFICE HOURS	CALVARUSO VINCENZA	
	Monday 14:00 16:00 Sezione di Gastroenterologia, Clinica Medica I, Piazza delle Cliniche n.2.	
	PIZZOLANTI GIUSEPPE	
	Monday 12:00 13:00 Dipartimento Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"	

DOCENTE: Prof. GIUSEPPE PIZZOLANTI PREREQUISITES	The student must have basic knowledge of anatomy and physiology of the
	digestive system. The student must have basic knowledge of anatomy and physiology of the endocrine glands and clinical biochemistry of the main metabolic pathways.
LEARNING OUTCOMES	Knowledge and understanding Acquire the skills to understand the pathophysiology, biochemistry, and molecular biology of the main endocrine and gastroenteric disorders Understanding of the technical language used.
	Applying knowledge and understanding Apply the acquired knowledge for the recognition and the in vitro diagnostics of the main endocrine and digestive disorders.
	Making judgments Being able to properly assess, in the light of the pathophysiological mechanisms, the results of laboratory tests in selected endocrinopathies, live and gastrointestinal disorders.
	Communication skills Show the results of studies properly, highlighting especially the effects in the prevention and therapy Learning ability Ability to integrate the informations give by the teacher with the consultation of scientific publications acquired mainly through the use of IT tools (Medline, Internet)
ASSESSMENT METHODS	Oral examinantion (consisting of at least two questions on the topics treated) aimed to achievement of the fundamental learning outcomes. The examinantior will be evaluated in out of thirty. These are the criteria for evaluation. Excellent A - A + Excellent 30-30 laude Excellent knowledge of teaching content; the student demonstrates high analyticsynthetic capacity and is able to apply the knowledge to solve problems of high complexity Excellent B Very good 27-29 Excellent knowledge of teaching content and excellent properties of language; the student demonstrates analytical-synthetic capacity and able to apply the knowledge to solve problems of medium complexity and, in some cases, even high Good C Good 24-26 Good knowledge of teaching content and good properties of language; the student is able to apply knowledge to solve problems of medium complexity Discrete D Satisfactory 21-23 Good knowledge of teaching content, in some cases limited to the main topic; acceptable ability to use the specific language of the discipline and independently apply the knowledge acquired Sufficient E Sufficient 18-20 Minimal knowledge of teaching content, often limited to the main topic; modest ability to use the specific language of the discipline and independently apply the knowledge acquired Insufficient F Fail
	It does not have an acceptable knowledge of the main teaching content; very little or no ability to use the specific language of the discipline and independentl apply the knowledge acquired
FEACUING METHODS	The source includes lectures

The course includes lectures.

TEACHING METHODS

MODULE ENDOCRINOLOGY

Prof. GIUSEPPE PIZZOLANTI

SUGGESTED BIBLIOGRAPHY

Faglia G. Malattie del sistema endocrino e del metabolismo. McGraw-Hill Slide del docente

Slides given by the teacher.

AMBIT	10351-Scienze interdisciplinari cliniche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge and understanding

Acquire the skills to understand the pathophysiology, biochemistry, and molecular biology of the main endocrine disorders. Understanding of the technical language used.

Applying knowledge and understanding

Apply the acquired knowledge for the recognition and the in vitro diagnostics of the main endocrine disorders.

Making judgments

Being able to properly assess, in the light of the pathophysiological mechanisms, the results of laboratory tests in selected endocrinopathies

Communication skills

Show the results of studies properly, highlighting especially the effects in the prevention and therapy

Learning ability

Ability to integrate the informations given by the teacher with the consultation of scientific publications acquired mainly through the use of IT tools (Medline, Internet)

SYLLABUS

Hrs	Frontal teaching
2	Introduction to the study of endocrinology. Historical background, concept of endocrine glands, hormones, feedback
3	Molecular action of hormones, cellular receptors, concept of second messenger, hormonal axes, Psiconeuroendocrinoimmunology
2	The laboratory in endocrine diagnostics. Stimulation and suppression tests
5	Diabetes mellitus: definition and classification. Physiology and pathophysiology of pancreatic insula. Molecular biology and immunopathology of DM. Clinical and therapy notes. The laboratory in the diagnosis of DM
5	Thyroid: anatomy, physiology and pathophysiology. Molecular biology, immunology of goitre, hyperthyroidism, hypothyroidism, Hashimoto's disease, Graves' disease. The laboratory in the diagnosis of thyroid diseases, TSH-reflex
4	Neoplastic diseases of the thyroid: molecular biology and laboratory diagnostics
1	Parathyroid: anatomy, pathophysiology, molecular biology, main deseases and laboratory diagnostics
2	Adrenal gland: anatomy, pathophysiology, molecular biology, main diseases and laboratory diagnostics
4	MEN syndromes, autoimmune polyendocrine syndromes, rare endocrine syndromes
2	Pituitary: main diseases and laboratory diagnostics

MODULE GASTROENTEROLOGY

Prof.ssa VINCENZA CALVARUSO

TIOI.334 VINGENZA GALVAROSO		
SUGGESTED BIBLIOGRAPHY		
Manuale di Gastroenterologia UniGastro (ed. 2010-2012) EGI Srl		
AMBIT	10351-Scienze interdisciplinari cliniche	
INDIVIDUAL STUDY (Hrs)	45	
COURSE ACTIVITY (Hrs)	30	
EDUCATIONAL OBJECTIVES OF THE MODULE		

Teaching of Gastroenterology goals are to enable the student acquisition of knowledge fundamental (theoretical and practical) that allow them to critically evaluate the relevant methodologies Gastroenterology in relation to the pathological conditions of man

SYLLABUS

Hrs	Frontal teaching
2	Peptic ulcer disease and Helicobacter Pylori
3	Celiac disease and malabsorption
3	Inflammatory bowel diseases 1.Crohn's disease 2. Ulcerative colitis
2	Neoplasms of the esophagus, stomach and colon
2	Gastrointestinal and liver damage from drugs
4	Acute and chronic viral hepatitis
2	Steatosis, steatohepatitis, damage from alcohol
4	Liver cirrhosis and hepatocellular carcinoma
2	Cholestasis and biliary obstructive disorders
3	Acute and chronic pancreatitis
3	Genetic diseases of the liver and intestine