



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
ACADEMIC YEAR	2020/2021		
BACHELOR'S DEGREE (BSC)	NURSING		
INTEGRATED COURSE	INTERNAL MEDICINE, GENERAL SURGERY AND PHARMACOLOGY - INTEGRATED COURSE		
CODE	05002		
MODULES	Yes		
NUMBER OF MODULES	3		
SCIENTIFIC SECTOR(S)	MED/09, MED/18, BIO/14		
HEAD PROFESSOR(S)	SORESI MAURIZIO	Professore Associato	Univ. di PALERMO
	ROMANO GIORGIO	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	CANNIZZARO CARLA	Professore Ordinario	Univ. di PALERMO
	BRANCATO ANNA	Ricercatore a tempo determinato	Univ. di PALERMO
	SORESI MAURIZIO	Professore Associato	Univ. di PALERMO
	VERONESE NICOLA	Professore Associato	Univ. di PALERMO
	AGRUSA ANTONINO	Professore Ordinario	Univ. di PALERMO
	ROMANO GIORGIO	Professore Ordinario	Univ. di PALERMO
CREDITS	9		
PROPAEDEUTICAL SUBJECTS	91705 - HUMAN PHYSIOLOGY		
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>AGRUSA ANTONINO</p> <p>Monday 14:00 16:00 U.O.C. Chirurgia Generale e d'UrgenzaDipartimento di Discipline Chirurgiche, Oncologiche e Stomatologiche.</p> <p>Wednesday 14:00 16:00 U.O.C. Chirurgia Generale e d'UrgenzaDipartimento di Discipline Chirurgiche, Oncologiche e Stomatologiche.</p> <p>BRANCATO ANNA</p> <p>Wednesday 14:00 17:00 Farmacologia, primo piano Ed. 11d, Policlinico Universitario Paolo Giaccone</p> <p>Thursday 10:00 13:00 Farmacologia, primo piano Ed. 11d, Policlinico Universitario Paolo Giaccone</p> <p>CANNIZZARO CARLA</p> <p>Thursday 11:00 13:00 Farmacologia, Edificio 11d - AOUP Paolo Giaccone, Via del Vespro 129 Palermo</p> <p>Friday 10:00 12:00 Farmacologia, Edificio 11d - AOUP Paolo Giaccone, Via del Vespro 129 Palermo</p> <p>ROMANO GIORGIO</p> <p>Monday 13:00 14:00 U.O.C. Chirurgia Generale e d'Urgenza</p> <p>Wednesday 13:00 14:00 U.O.C. Chirurgia Generale e d'Urgenza</p> <p>SORESI MAURIZIO</p> <p>Monday 12:30 14:00 Di.Bi.M.I.S via del Vespro 141</p> <p>VERONESE NICOLA</p> <p>Wednesday 12:00 14:00</p>		

DOCENTE: Prof. MAURIZIO SORESI- Sede NIGHTINGALE

PREREQUISITES	Basic knowledge of anatomy, physiology, biology, genetics, biochemistry
LEARNING OUTCOMES	<p>Knowledge and understanding ability</p> <p>Acquisition of tools for understanding the etiopathogenetic and pathophysiological mechanisms of diseases. Ability to use the specific language of these disciplines. Knowledge of general characteristics of the main medical and surgical diseases.</p> <p>Students will have to demonstrate that they have achieved the following objectives:</p> <p>Ability to apply knowledge and understanding</p> <p>Ability to recognize and apply the cognitive tools and the methodological rigor of medicine for the scientific and rational exercise of profession. Demonstrate the ability to apply their knowledge and understanding to the main internal and surgical diseases.</p> <p>Judgment autonomy</p> <p>Being able to independently evaluate the results of studies aimed at clarify the etiopathogenetic and pathophysiological mechanisms of diseases. To acquire sufficient knowledge of the world of patients to interpret laboratory data.</p> <p>Communication skills</p> <p>Ability to explain, in a simple, immediate and exhaustive way, the knowledge acquired as well as to know how to interface with colleagues, healthcare personnel, individual patients and family members of reference.</p> <p>Learning ability</p> <p>Ability to update by consulting the scientific publications of the disciplines in question.</p> <p>Ability to participate, using the knowledge acquired during the course, continuous updating initiatives in the professional sphere</p>
ASSESSMENT METHODS	<p>Oral exam. The student will have to answer at least four questions posed orally, at least two for each module on different parts of the program, with reference to recommended texts. The final test is aimed at assessing whether the student has knowledge and understanding of the topics, has acquired interpretation skills and independent judgment. Evaluation and criteria: the evaluation is in</p> <p>30th as reported: http://www.unipa.it/scuole/dimedicinaechirurgia</p>
TEACHING METHODS	Frontal lessons

MODULE GENERAL SURGERY

Prof. ANTONINO AGRUSA - Sede NIGHTINGALE, - Sede NIGHTINGALE

SUGGESTED BIBLIOGRAPHY	
D'Amico - manuale di chirurgia generale. 2° edizione. Piccin - Nuova libreria	
AMBIT	10311-Scienze medico - chirurgiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30
EDUCATIONAL OBJECTIVES OF THE MODULE	
<p>Knowledge of the epidemiology, etio-pathogenesis, symptoms, prognosis and treatment of diseases which require a surgical intervention more frequently observed in clinical practice Define the role and responsibilities of the nurse in helping peri, intra and post -operatoria.</p>	

SYLLABUS

Hrs	Frontal teaching
4	Calculus of the gallbladder and its complications
2	hernia diseases
4	Digestive hemorrhage
4	Colon, Rectal and anus cancer
4	esophageal, gastric and duodenal diseases
4	Acute Abdominal
2	Pathology of the appendix
4	Vital parameters and postoperative care
2	surgical site infection

MODULE INTERNAL MEDICINE

Prof. MAURIZIO SORESI - Sede NIGHTINGALE, - Sede NIGHTINGALE

SUGGESTED BIBLIOGRAPHY

Claudio Rugarli; Medicina Interna sistematica, Editrice Masson
Harrison..." Principi di Medicina Interna" ultima edizione.. Editore : McGraw-Hill .
Appunti dalle lezioni . Ricerche bibliografiche consigliate dal Docente

AMBIT	10313-Interdisciplinari e cliniche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge and understanding: The aim of the module is the student's knowledge of taxonomy, epidemiology, aetio-pathogenesis, natural history, differential diagnosis, clinical phenomenology and therapeutic management of the most frequent acute and chronic pathologies of internal medicine.

The Student will also have to acquire the clinical diagnostic and prognostic significance of some laboratory and instrumental investigations of specific execution in the management of some clinical entities internistically relevant (EGA, Spirometry, diagnostic and therapeutic paracentesis, thoracentesis, coagulation tests, radiological diagnostics, etc.).

Ability to apply knowledge and understanding: the Student, at the end of the course, thanks to the above acquisitions, will have to be able to correctly apply the information for a correct differential diagnosis between diseases with common signs and symptoms, to indicate to reach diagnosis a conscious choice of the various diagnostic methods and to apply the right therapeutic choices for a correct management of the patient.

Ability to apply knowledge and understanding: the Student, at the end of the course, thanks to the above acquisitions, will have to be able to correctly apply the information for a diagnosis of the major post-operative complications and their management. The verification will be carried out with a final oral exam.

SYLLABUS

Hrs	Frontal teaching
4	Respiratory system -dyspnoea and cyanosis: pathophysiology and clinic - acute and chronic, partial and global respiratory failure -pneumonia, bronchial asthma, chronic bronchitis and its sequelae;
4	Cardiovascular system pathophysiology of the heart; primary and secondary arterial hypertension; heart failure; pulmonary embolism
6	Digestive system - diseases of the esophagus, stomach and duodenum. Malabsorption and chronic inflammatory bowel disease, pancreatitis - chronic hepatitis, liver cirrhosis and its complications: spontaneous peritonitis bacterial, rupture of esophageal varices, ascites, hepatic encephalopathy.
4	Endocrine-metabolic system -diabetes mellitus and its complications, thyroid diseases, hypercortical adrenalisms; -obesity and its complications, the metabolic syndrome
4	Hematology - Anemias, leukemias and lymphomas
4	Nephrology -Glomerulo-nephritis, Acute and chronic renal failure, Urinary tract infections
2	Autoimmune pathology Autoimmune concepts; LES, rheumatoid arthritis
2	Various - Drug induced reactions, excessive and incorrect use of drugs.

MODULE INTERNAL MEDICINE

Prof. NICOLA VERONESE - Sede GORDON, - Sede GORDON

SUGGESTED BIBLIOGRAPHY

Massini et al., Medicina Interna (VI ed.), 2019, McGraw-Hill Education (ISBN 978-8838694660)
 Claudio Rugarli; Medicina Interna sistematica, Editrice Masson
 Ricerche bibliografiche consigliate dal Docente
 Appunti e materiale di lezione

AMBIT	10313-Interdisciplinari e cliniche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge and understanding: The objective of the module is the student's knowledge of the taxonomy, of the epidemiology, etiopathogenesis, natural history, differential diagnosis, clinical phenomenology and therapeutic management of the most frequent acute and chronic pathologies of Internal Medicine. The student must also acquire the diagnostic and prognostic clinical significance of some laboratory investigations and instrumental of specific execution in the management of some internal clinical entities (arterial gas assessment, Spirometry, paracentesis diagnostics and therapeutics, thoracentesis, coagulation tests, radiological diagnostics ...).

Ability to apply knowledge: at the end of the course, thanks to the above-mentioned acquisitions, the student must be able to correctly apply the information for a correct differential diagnosis between diseases with signs and symptoms common, indicate for the diagnosis a conscious choice of the various diagnostic methods and apply the right choices therapeutic for a correct management of the patient.

Learning skills: at the end of the course, thanks to the above-mentioned acquisitions, the student must be able to correctly apply the information for a diagnosis of major post-operative complications and their management. The verification will be carried out with a final oral exam.

SYLLABUS

Hrs	Frontal teaching
4	Respiratory system - dyspnoea and cyanosis: physiopathology and clinic - acute and chronic, partial and global respiratory failure - pneumonia, bronchial asthma, chronic bronchitis and its sequelae;
6	Cardiovascular system pathophysiology of the heart; primary and secondary arterial hypertension; heart failure; pulmonary embolism; arrhythmias
4	Geriatrics: general principles and importance of multidimensional geriatric assessment
4	Endocrine-metabolic system - diabetes mellitus and its complications, thyroid diseases, hypercorticosadrenalism; obesity and its complications, the metabolic syndrome
4	Hematology - Anemias, leukemias and lymphomas
4	Nephrology -Glomerulo-nephritis, acute and chronic renal failure, urinary tract infections
2	Autoimmune diseases
2	Principles of pharmacology

MODULE PHARMACOLOGY

Prof.ssa CARLA CANNIZZARO - Sede NIGHTINGALE, - Sede NIGHTINGALE

SUGGESTED BIBLIOGRAPHY

The Manual of the Pharmacological Basis of THERAPEUTICS. Goodman & Gilman's. Ed. Mc Graw Hill
Fumagalli, Clementi Farmacologia Generale e Molecolare, UTET

AMBIT	10305-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 in Pharmacology aims at stimulating the interest towards the mechanisms of action, therapeutic indications, adverse drug reactions and interaction of the diverse classes of medications that will be used by the Students in Nursing. The learning process will be implemented by curiosity, commitment and critical approach. The acquisition of a dynamic knowledge of the main molecules already in use and of the new and effective therapeutic strategies will be achieved by active participation to the lessons and will be certified through the final evaluation by the examining Commission

SYLLABUS

Hrs	Frontal teaching
2	Introduction to general pharmacology. Anatomical-physio-pathological references. Cellular bases of pharmacokinetics. Absorption and routes of drug administration. Distribution and elimination of drugs. Drug metabolism. Control of plasma drug concentration. Drug interactions. Pharmacogenetics.
2	Pharmacodynamics. Drug-receptor interactions and quantitative drug response. Receptors and modulation of receptor responses. Mechanisms of tolerance and drug dependence. Channel receptors. G protein-coupled receptors. Regulation of intracellular calcium homeostasis. Receptors for growth factors. Cytokines: receptors and functions. Intracellular receptors. Ionic channels (sodium, calcium and potassium channels). Pumps and carriers. Neurotransporters.
4	The Central Nervous System. Synapses and the secretion of neurotransmitters. Catecholaminergic, cholinergic, serotonergic, histaminergic, gabaergic transmissions. Neurotransmission mediated by excitatory amino acids. The opioidergic system. Cannabinoids. Neuropeptides of endocrine relevance. Pharmacology of nitric oxide. Arachidonic acid cascade.
6	Drugs active on the Central Nervous System. Sedative Hypnotics and Alcohols (Benzodiazepines, Barbiturates, Ethanol). Opioid analgesics. General anesthetics. Local anesthetics (Esters, Amides, Ethers, Ketones).
6	Active drugs on the cardiovascular system: Antianginal (Nitro-derivates, Beta-Blockers, Calcium-Antagonists); Antiarrhythmics (Sodium Channel Blockers, Beta-Blockers, Calcium Channel Blockers); Treatment of Heart Failure (Digitalis Glucosides, Dopaminergic and Beta-Adrenergic Agonists, Phosphodiesterase Inhibitors) Antihypertensive Drugs (ACE inhibitors, Angiotensin II Antagonists, Nitroderivatives, Vasodilators, Loop Diuretics, Beta-blockers Calcium Antagonists, Sartans). Pharmacology of haemostatic disorders.
6	Autocoid drugs and mediators of inflammation: Histamine and Bradykinin, Eicosanoids, Non-Steroidal Anti-inflammatory Drugs (NSAIDs). Metabolism active drugs: Antidiabetic, Hyperglycemic agents Statins. Gout therapy, obesity and eating disorders. Bone Metabolism Drugs active on the digestive tract: Treatment of peptic ulcer and gastroesophageal reflux. Antidiarrhoeals. Antiemetic with central and peripheral activity.
4	Chemoantibiotic therapy: Betalactamine. Macrolides, Ketolides, Lincosamides, Streptogramins and Oxazolidones. Aminoglycoside, Chloramphenicol and Tetracycline. Sulfonamides, Diaminopirimidine and Quinolones. Antimycobacterial drugs, Antivirals, Antifungals, Antiprotozoans, Anthelmintics