



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze e Tecnologie Biologiche, Chimiche e Farmaceutiche		
ACADEMIC YEAR	2021/2022		
MASTER'S DEGREE (MSC)	PHARMACY		
SUBJECT	MEDICINAL AND TOXICOLOGICAL CHEMISTRY 2		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50323-Discipline Chimiche, Farmaceutiche e Tecnologiche		
CODE	01870		
SCIENTIFIC SECTOR(S)	CHIM/08		
HEAD PROFESSOR(S)	DIANA PATRIZIA	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	10		
INDIVIDUAL STUDY (Hrs)	170		
COURSE ACTIVITY (Hrs)	80		
PROPAEDEUTICAL SUBJECTS	01873 - PHARMACEUTICAL AND TOXICOLOGICAL CHEMISTRY 1		
MUTUALIZATION			
YEAR	4		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	DIANA PATRIZIA Monday 12:30 14:30 nel mio studio - primo piano via Archirafi 32 Wednesday 12:30 14:30 nel mio studio - primo piano via Archirafi 32		

DOCENTE: Prof.ssa PATRIZIA DIANA

PREREQUISITES	Organic Chemistry; Pharmaceutical Chemistry I
LEARNING OUTCOMES	<p>Knowledge and Understanding of the aspects concerning drugs, their invention, discovery, design, metabolism, mechanism of action at the molecular level, and structure activity relationship.</p> <p>Professional skills: Capacity to apply Knowledge and Understanding of the subjects studied, integrated with pharmacology and pharmacotherapy in order to perform as a pharmacist and hospital pharmacist interacting with other health-related professions.</p> <p>Intellectual skills in order to take decisions with the acquired knowledge, to recommend drugs to the patients without a prescription and to dispense properly the drugs prescribed by the doctor .</p> <p>Transferable skills in order to interact with the medical class and with the different professionals of health area for the benefit of the PATIENT.</p> <p>Follow on skills of the study method to be able to expand independently the acquired knowledge through the literature search , the attendance of scientific conferences and the professional development .</p>
ASSESSMENT METHODS	<p>Oral examination.</p> <p>Student must verbally answer at least three questions about the topics of the program, with reference to the recommended texts.</p> <p>The examination assessment will be considered based on the level of knowledge, the properties of language as well as the clarity of the topics covered.</p> <p>The score is expressed using a 30-point scale (from min 18/30 to max 30/30 cum laude) The student gains a minimum range score (18-20/30) after showing general knowledge and comprehension of the treated topics, and expressing them with proper scientific vocabulary, even if not adequately articulated. The score will be increased (range score from 20/30 to 28/30) the more the candidate shows a deep knowledge of the topics, coming both from the information he acquired during the course and from a precise and deep personal study of the recommended texts, and also if he shows autonomy of judgement and comprehension of the applicable properties of the newly acquired knowledge. Positive scores will also be given to a clear and articulated presentation, along with the correct use of scientific vocabulary. The score of 30/30 and 30/30 cum laude will be gained by the candidate who shows optimal knowledge of the topics, which he expresses in a clear and articulated way with optimal language skills and good analytical skills, showing his judgement autonomy and his application ability of the newly acquired knowledge.</p>
EDUCATIONAL OBJECTIVES	<p>In the course are treated drugs and prodrugs which act on endogen receptors.</p> <p>The training objective is to make the student able to acquire the necessary skills concerning the history, the chemical structure, the synthesis or isolation, the physical and chemical properties, the mechanism of action , the therapeutic uses and the side effects of drugs belonging to classes treated.</p>
TEACHING METHODS	Frontal lessons
SUGGESTED BIBLIOGRAPHY	Foye's Principi di Chimica Farmaceutica, VI Ed Italiana, T. L. Lemke- David A. Williams, 2013. Chimica Farmaceutica Alberto Gasco, Fulvio Gualtieri e Carlo Melchiorre

SYLLABUS

Hrs	Frontal teaching
3	Classification of drugs and objectives of the course and presentation of the text books
3	Drugs of the peripheral nervous system: local anesthetics
9	Drugs acting on synaptic and neuroeffector joints
6	Drugs acting on smooth muscle
9	Histamine and antihistamine drugs
9	Cardiovascular drugs
4	Hematologic drugs
5	Drugs acting on the gastrointestinal tract
6	Central Nervous System Depressants
5	Central Nervous System Stimulants
3	Psychotropic and psychoactive drugs
5	Drugs acting on the respiratory system
4	NonSteroidal Anti-Inflammatory Drugs (NSAIDs)
5	Diuretics
4	Drugs Acting on Metabolism and Endocrine System