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Course title	Pharmaceut	ical chemistr	у				
Course Code	CHEM200						
Course Type	Theoretical						
Level	Diploma						
Year / Semester	2 nd Year / 3 rd Semester						
Teacher's Name	Tomouzou Chrysi						
ECTS	6	Lectures / w		3	Laboratories / week	0	
Course Purpose and Objectives	The aim of the course of Pharmaceutical Chemistry is to familiarize students with the basic chemical characteristics of substances used in pharmaceutical science.						
Learning Outcomes	Upon completion of the course, students are expected to: Knowledge 1. List the main chemical characteristics of compounds groups used in pharmacy. 2. Explain the chemical basis of antibiotics, alkaloids, vitamins, drugs for diseases of the digestive, nervous and circulatory systems, analgesics and steroids. Skills 3. Analyse the main properties and characteristics of trace elements. Competences 4. Synthesize their knowledge in the field of pharmaceutical chemistry and acquire critical thinking on the levels of action and use of drugs. 5. Be able to combine the so-called knowledge and skills acquired so far with those presented in this course.						
Prerequisites	General Che CHEM100	mistry	Requ	ired:	-		
Course Content	 Introduction to Pharmaceutical Chemistry Origin of pharmaceutical chemical compounds Pharmaceutical Chemistry: basic concepts and definitions, targets of pharmaceutical products, development of intermolecular interactions Composition (guide compound, pharmaceutical component) Stereoisomerism in drugs Antibiotics: Classification Drugs for circulatory system diseases Steroidal, non-steroidal anti-inflammatory and peripheral/central analgesic drugs Drugs of neurodegenerative diseases and local anaesthetics Antidepressants, anxiolytics, sedatives, hypnotics and antiepileptic drugs Steroids Chemistry of natural products Alkaloids – Vitamins Trace elements in human health 						
Teaching Methodology Bibliography	The course content will be taught through: Power Point presentations, guided discussions with the active participation of students, individual and team work by students and the use of a variety of audiovisual media and other teaching tools as required for the delivery of each module. Greek Bibliography						
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CYQAA CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



	 Πουλή, Ν. (2018). Μαθήματα φαρμακευτικής χημείας: Κατασταλνικά ΚΝΣ - ψυχοφάρμακα, αντίσταμινκά, βιταμίνες, αντιβακτηριακά φάρμακα, Παρισιάνου Α.Ε., ISBN 978-960-583-252-0. Nahar, L. (2015). Στοιχεία χημείας για φαρμακοποιούς: Γενική χημεία, οργανική χημεία και χημεία φυσικών προϊόντων, Παρισιάνου Α.Ε., ISBN 978-960-583-032-8. Συλλογικό Έργο (2017). Οργανική χημεία, Utopia, Αθήνα, ISBN: 978-618-51732-0-3. Μανουσάκης, Γ. (2015). Χημεία Ιατρικών Επιστημών, Εκδόσεις Κυριακίδης, ISBN: 978-960-599-012-1 Ρέκκας, Α.Ε., Κουρουνάκης, Π. Ν. (2015). Φαρμακευτική χημεία: φάρμακα που δρουν στο κεντρικό νευρικό σύστημα, Φωτεινή Χατζηπάντου, ISBN: 978-960-98594-7-9. English Bibliography Faruk Khan M. O., and Philip, V. (2018). Fundamentals of Medicinal Chemistry and Drug Metabolism. Sharjah, UAE: Bentham Science Publishers. ISBN: 9781681086880. EBSCOHost Davis, A., and Ward, S. E. (2015). The Handbook of Medicinal Chemistry: Principles and Practice. Cambridge: Royal Society of Chemistry. ISBN: 9781849736251. EBSCOHost McMurry, J., Ballantine, D. S. et al (2010). Fundamentals of general, organic, and biological chemistry. 6th Edition. Pearson Prentice Hall, Upper Saddle River, NJ, ISBN: 978-0-13-815228-4. 				
Assessment	 Attendance and participation: 10% Assignments / Essays: 20% Midterm Written Examination: 20% Final Written Examination: 50% 				
	Written examination has two parts that are examined as part of one exam paper. The first part includes closed-ended questions, such as multiple choice questions, true or false, matching exercises, complete the gaps exercises, etc. The first part is usually worth 40% - 50% of the total marks of the exam paper. The second part includes open-ended questions that are meant to assess the students' abilities to analyse, reflect, explain, recall etc. The second part is usually worth 50% - 60%. The total marks of the exam paper are 100.				
Language	Greek or English				