ΔΙΠΑΕ ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

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Course title	Pharmacology I					
Course Code	PHRM204					
Course Type	Theoretical					
Level	Diploma					
Year / Semester	2 nd Year / 3 rd Semester					
Teacher's Name	Mitsinga Mikaella					
ECTS	6	Lectures / week	3	Laborate week	ories /	0
Course Purpose and Objectives	The aim of the course of Pharmacology I is to introduce students to the science of Pharmacology and then to learn the categories and mechanisms of action of the drugs used to treat inflammation, pain and the main diseases of the nervous, circulatory (cardiovascular) and digestive systems, but also in renal function.					
Learning Outcomes	 Upon completion of the course, students are expected to: Knowledge Understand the basic principles of pharmacology Explain the use (mainly indications and mechanism of action) and limitations of drugs (active substances) that affect the autonomic nervous system, the central nervous system, the cardiovascular and digestive systems, renal function as well as the basic actions of vitamins. Identify drugs, the route of administration, the mechanism of action, uses, contraindications, combinations thereof. Understand the pharmacodynamics and pharmacokinetics of drugs. Skills Represent and interpret the mechanism of action of drugs. Competences Synthesise their knowledge in the field of Pharmacology and acquire critical thinking for the selection of the appropriate pharmacologically active substance on a pathological basis and the appropriate dosage regimen, according to the 					
Prerequisites	MEDI103 Hu BIOL100 Bio MEDI101 Phy	man Anatomy logy with Biochem ysiology	istry Elemen	ts	Required	l: -
Course Content	 Basic principles of Pharmacology: Basic mechanisms of action of drugs (receptors, transmitting substances, delivery systems) Routes of administration Drug absorption, distribution, metabolism and excretion Half-life and bioavailability Side effects and interactions concepts Drugs acting on the Autonomic Nervous System: Autonomic nervous system Cholinergic agonists and antagonists Adrenergic agonists and antagonists 					

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	Drugs that act on the Central Nervous System:					
	Treatment of Parkinson's disease					
	Anxiolytics and hypnotics					
	Antidepressants					
	Neuroleptics (Schizophrenia)					
	Opioid analgesics					
	CNS Stimulants					
	Anaesthetics					
	Drugs for epilepsy treatment					
	Drugs acting on the cardiovascular system:					
	Treatment of Congestive Heart Failure					
	Antiarrthymics					
	Antianginal					
	Anti-hypertensives					
	Antihyperlipidemic					
	• Drugs affecting the blood (anticoagulants, platelet inhibitors,					
	thrombolytics, antihaemorrhages, treatment of anaemia)					
	Medicines that affect kidney function:					
	Diuretics					
	Drugs acting on the digestive system:					
	Proton pump inhibitors					
	H2-histamine receptor blockers					
	Antacids					
	Antidiarrheal					
	Laxatives					
	Antiemetics					
	Vitamins					
	The course content will be taught through: Power Point presentations, guided					
Teaching	discussions with the active participation of students, individual and team work					
Methodology	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					
	 Ισιφτσόγλου, Α. (2018). Επίτομη μοριακή και κλινική φαρμακολογία: 					
	 Βασικές αρχές της δράσης των φαρμάκων, University Studio Press, ISBN 978-960-12-2394-0. Ισσέγιεκ, Α. (2016). Φαρμακολογία Ι, KES College. Rang, H. P. & Dale, Μ. Μ. (2013). Φαρμακολογία, Παρισιάνου Α.Ε., ISBN 978-960-12-2394-0. 					
	ISBN: 9789003949237. Dana II. D. and Dala M. M. (2012), <i>Anaurus baria</i> , 20 (Erisa an					
	 Rang, H. P., and Dale, M. M. (2013). Φαρμακολογία. 2" Εκδοση. Εκδόση. 					
Ribliography	EKOOσεις Παρισιανου. ISBN: 9789603949237					
Dibilography	 Katzung, B. G. (2009). Βασική και κλινική φαρμακολογία, Αθήνα, Ι Ιστοικός Γικδόσοις Π.Χ. Πασικηλίδης ISBN: 079-060-200-046-7 					
	English Ribliography					
	Wiffen D Mitchell M Snelling M Stoner N (2017) Oxford					
	 willeri, P., Willchell, W., Shelling, W., Stoner, N. (2017). UXIOC handbook of Clinical Pharmacy 2rd Edition. OUD Oxford USPN: 079 					
	0198735823					
	 Shiew-Mei H Lettora luan LL Atkinson A L Ir (2012) Principles 					
	of Clinical Pharmacology, 3 rd Edition. London: Academic Press. ISBN:					
	9780123854711, EBSCOHost					

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Assessment	Attendance and participation: Tests:	10%				
	 Tests: 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					