

Course title	Pharmacology II				
Course Code	PHRM216				
Course Type	Theoretical				
Level	Diploma				
Year / Semester	2nd Year / 4th Semester				
Teacher's Name	Dr Miliotou Androulla				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The course aims to deepen students' knowledge in the science of Pharmacology. Students will become acquainted with the various categories and mechanisms of action of drugs used to manage inflammation, pain, key diseases of the nervous, cardiovascular, digestive and respiratory systems.				
Learning Outcomes	<p>Upon completion of the course, students are expected to:</p> <p>Knowledge</p> <ol style="list-style-type: none"> Explain the use (mainly indications and mechanism of action) and restrictions of drugs (active substances) that affect the endocrine and respiratory system, Know the use (mainly indications and mechanism of action) and limitations of anticancer, chemotherapeutic, and immunosuppressive drugs (active substances). Explain the use (mainly indications and mechanism of action) of analgesics and anti-inflammatory drugs. Explain the use (mainly indications and mechanism of action) and restrictions of drugs (active substances) that treat Alzheimer's disease, erectile dysfunction, osteoporosis, migraine and obesity. Revoke the scientific rules governing the action of drugs and the corresponding mechanisms of action. <p>Skills</p> <ul style="list-style-type: none"> Rank the mechanisms of interactions between drugs and the possible effects on drug concentration or efficacy. <p>Competences</p> <ol style="list-style-type: none"> Synthesise his 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. Develop critical thinking about how specific traits, genetic differences, and others affect the response to specific groups of drugs. 				
Prerequisites	Pharmacology I PHRM204	Required:	-		
Course Content	<p>Drugs acting on the Endocrine System:</p> <ul style="list-style-type: none"> Pituitary and Thyroid Hormones Insulin and oral hypoglycaemic drugs Steroid hormones (sex hormones, corticosteroids) <p>Chemotherapeutic drugs:</p> <ul style="list-style-type: none"> Principles of Antimicrobial Therapy Folic acid antagonists Cell wall synthesis inhibitors 				

	<ul style="list-style-type: none"> • Protein synthesis inhibitors • Quinolones and urinary antiseptics • Antimycobacterial drugs • Antifungals • Antiprotozoals • Anthelmintics • Antivirals <p>Drugs acting on the respirator system:</p> <ul style="list-style-type: none"> • Drugs used in the management of asthma • Drugs used in the management of rhinitis • Drugs used in the management of COPD • Drugs used in the management of cough (dry and productive) <p>Anti-inflammatory and Analgesic Drugs</p> <ul style="list-style-type: none"> • Drugs used in the management of asthma • Drugs used in the management of rhinitis • Drugs used in the management of COPD • Drugs used in the management of cough (dry and productive) <p>Immunosuppressants</p> <p>Cancer chemotherapy</p> <p>Drugs used in the management of:</p> <ul style="list-style-type: none"> • Alzheimer's disease • Erectile dysfunction • Osteoporosis • Migraine • Obesity <p>Pharmacogenomics</p>
<p>Teaching Methodology</p>	<p>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.</p>
<p>Bibliography</p>	<p>Greek Bibliography</p> <ul style="list-style-type: none"> • Τσιφτσόγλου, Α. (2018). <i>Επίτομη μοριακή και κλινική φαρμακολογία: Βασικές αρχές της δράσης των φαρμάκων</i>, University Studio Press, ISBN 978-960-12-2394-0. • Ισσέγιεκ, Α. (2016). <i>Φαρμακολογία II</i>, KES College. • Rang, H. P., and Dale, M. M. (2013). <i>Φαρμακολογία</i>. 2^η Έκδοση. Εκδόσεις Παρισιανού. ISBN: 9789603949237 • Katzung, B. G. (2009). <i>Βασική και κλινική φαρμακολογία</i>, Αθήνα, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, ISBN: 978-960-399-816-7. • Τσιφτσόγλου, Α. (2018), <i>Επίτομη μοριακή και κλινική φαρμακολογία: Βασικές αρχές της δράσης των φαρμάκων</i>, University Studio Press, ISBN 978-960-12-2394-0. • Μαρσέλος, Μάριος (2009), <i>Ιατρική Φαρμακολογία: Ερωτήσεις και Απαντήσεις</i>, Εκδόσεις Gutenberg, Αθήνα, ISBN: 9789600112955. • Τσόχας, Κ. Αθ. (2009), <i>Κλινική φαρμακολογία II: Ειδική φαρμακολογία</i>, Λύχνος, Αθήνα, ISBN: 960-6607-29-1. <p>English Bibliography</p> <ul style="list-style-type: none"> • Shiew-Mei, H., Lertora Juan J.L., Atkinson, A. J., Jr. (2012). <i>Principles of Clinical Pharmacology</i>. 3rd edition. London: Academic Press. ISBN: 9780123854711. EBSCOHost.

	<ul style="list-style-type: none"> • Wiffen, P., Mitchell, M., Snelling, M., Stoner, N. (2017). <i>Oxford handbook of Clinical Pharmacy</i>, 3rd Edition, OUP Oxford, ISBN: 978-0198735823. • Roach, S. S. (2008). <i>Introductory clinical pharmacology</i>, Lippincott Williams & Wilkins, Philadelphia, ISBN: 9780781775953. • Katzung, B. G. (2007) <i>Basic and clinical pharmacology</i>, Lange Medical Books/McGraw Hill, New York, ISBN: 9780071451536.
assessment	<ul style="list-style-type: none"> • Attendance and participation: 10% • Tests: 20% • Midterm Written Examination: 20% • Final Written Examination: 50% <p><i>Final written examination has two parts that are sat on the same day. 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% - 60% 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 60% - 40%. The total marks of the exam paper are 100.</i></p>
Language	Greek or English