**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | PREGRADUATE |
| **COURSE CODE** | **ΙΑΥ605** | **SEMESTER** | **6th** |
| **COURSE TITLE** | PHARMACOLOGY II |
| **INDEPENDENT TEACHING ACTIVITIES** *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits* | **WEEKLY TEACHING HOURS** | **CREDITS** |
| **LECTURES** | **5** | **5** |
| **LABORATORY EXERCISES** | **1** |  |
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| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).* |  |  |
| **COURSE TYPE***general background, special background, specialised general knowledge, skills development* | GENERAL BACKGROUND |
| **PREREQUISITE COURSES:** | - |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | GREEK |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | NO  |
| **COURSE WEBSITE (URL)** | http://ecourse.uoi.gr/course/view.php?id=770 |

1. **LEARNING OUTCOMES**

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| **Learning outcomes** |
| *The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.**Consult Appendix A* * *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
* *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
* *Guidelines for writing Learning Outcomes*
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| Pharmacology II is a basic course for the medical students, linked to all the basic courses, as well as to courses taught in parallel or at a later phase of the studies, such as Pathophysiology, Nosology and Therapeutics.In Pharmacology II, students will acquire comprehension of the concept of Systemic Pharmacology, by assessing groups of drugs per disease and functional system, understanding in depth of the mechanisms of drug action, the clinical indications/contraindications and adverse reactions with reference to specific disease entities requires knowledge of Pathophysiology. Students should be able to recognize and interpret pharmacological actions, indications, contraindications, and adverse reactions of drugs by disease or functional system, such as: Cardiovascular system (Heart failure, Arrhythmias, Angina pectoris, dislipidaemias, hypertension), the Endocrine system and the intermediary metabolism (Hormones, Vitamins, Electrolytes) and the chemotherapeutic agents used as antimicrobial, antiviral, antineoplastic and immunosuppressive drugs. |
| **General Competences**  |
| *Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?* |
| *Search for, analysis and synthesis of data and information, with the use of the necessary technology* *Adapting to new situations* *Decision-making* *Working independently* *Team work**Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*  | *Project planning and management* *Respect for difference and multiculturalism* *Respect for the natural environment* *Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking**……**Others…**…….* |
| - Search, analysis and synthesis of data and information, using the necessary technologies- Independent work- Teamwork- Promoting free, creative and inductive thinking- Respect for diversity- Production of new research ideas |

1. **SYLLABUS**

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| - Cardiovascular systemHeart failure, Arrhythmias, Angina pectoris, Anticoagulants, Antidislipidaemics, Antihypertensives- Endocrine systemPancreas – antidiabetic drugs, Thyroid – thyroid hormones and antithyroid drugs, Parathyroid – drugs against osteoporosis and calcium dysregulation, Hypothalamic/Pituitary hormones, Adrenal glands – Glucocorticosteroids, Gonadal steroids – Contraceptives, Androgens, Anabolic steroids- Drugs against anaemias, Vitamins, Electrolytes- Chemotherapeutic drugsAntimicrobials – general principles, Penicillins - Cephalosporins, Aminoglycosides - Tetracyclines, Chloramphenicol, Macrolides, Fluoroquinolones - Sulfonamides Antifungal, Antiprotozoal, Anthelmintic drugsAntiviral drugs - AIDSAntiseptics - DisinfectantsCytotoxic drugs -antineoplastic, immunosuppressants**Laboratory Exercises**- Emergency medicine and resuscitation - treatment of poisoning- Drugs and pregnancy- Pharmacogenomics- Clinical pharmacology of antimicrobial drugs |

1. **TEACHING and LEARNING METHODS - EVALUATION**

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| **DELIVERY***Face-to-face, Distance learning, etc.* | In the classroom / laboratory |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | - Teaching using PowerPoint- Posting information/teaching material to the e-course e-learning platform- Announcements on the course website- Presenting Educational Videos / Tutorials- Direct communication with the faculty by e-mail |
| **TEACHING METHODS***The manner and methods of teaching are described in detail.**Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.**The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS* |

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| ***Activity*** | ***Workload of each students group (two groups per semester)*** |
| Lectures | 65 |
| Laboratory Exercises | 8 |
| Non-directed study | 77 |
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| Total  | ***150*** |
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| **STUDENT PERFORMANCE EVALUATION***Description of the evaluation procedure**Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other**Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | Written examination at the end of the semester:- Multiple choice questionnaires- Short-answer Questions (YES-NO)Written examination after Each Lab Exercise:- Multiple choice questionnaires- Short-answer Questions  |

1. **ATTACHED BIBLIOGRAPHY**

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| *Teaching - study material:*- "Basic and Clinical Pharmacology", Edition: 11/2009 Authors: Bertram Katzung, Susan Masters, Anthony Trevor, Eudoxus code: 12867027- "Pharmacology" by Rang, Dale, Ritte, Moore, Greek translation, Scientific Publications Parisianos, Athens 2007, Eudoxus code: 41692-- Pharmacology II - Synopsis (http://ecourse.uoi.gr/course/view.php?id=770)- Pharmacology II– Drug cards (http://ecourse.uoi.gr/course/view.php?id=770) |