

**Syllabus:** **CLINICAL PHARMACOLOGY-THERAPEUTICS**

**Code number:** NP37 **ΝΠ18-49**

**Cycle:** UNDERGRADUATE

**Semester:** 8<sup>th</sup>

**Course type**

	Background/General knowledge
<b>X</b>	Scientific area (pharmacy)

**Credit Units (ECTS):** 5

**Lectures (hours/week):** 3

**Tutorial (hours/week):**

**Laboratory work (hours/week):**

**1. Course coordinator:**

Lefkothea Papadopoulou, Associate Professor

**Tutors in lectures:**

Lefkothea Papadopoulou, Associate Professor

**Aims of the course:**

The in-depth understanding, knowledge, and the critical thinking skills through relevant clinical case studies, for the pathophysiology and treatment of major human diseases.

- The ability to apply that knowledge to optimize the health and quality of life of the patient with an effective, safe, economical and generally rational use of medicines to patients, in the practice of pharmacy in community or hospital pharmacy.
- With the examples of clinical case studies pharmacy students can develop skills in pharmacotherapy and "bridge the gap" between the acquisition of theoretical knowledge about drugs and their clinical application in personalized patient, with the aim of choosing the right drug, at right patient at the right dose at the right time and for the right reasons.
- Study of the molecular mechanisms underlying various pathophysiological conditions, their diagnosis with new technologies and therapeutic approaches and responses.

**Teaching methods:** Lectures

**Contents of the course:**

Migraine,

Meningitis,

Hepatitis Pathophysiology and treatment

Thyroid gland disorders,

Diabetes

Physiological Hemostasis - Disorders of blood coagulation factors.

Hemoglobinopathies

Diseases of the lower respiratory tract (pneumonia, asthma, chronic obstructive pulmonary disease),

Peptic ulcer

Diseases of the upper respiratory tract (viral rhinitis, pharyngitis, sinusitis, tonsillitis, laryngitis, flu, allergic rhinitis), rheumatoid arthritis, osteoarthritis, gout and hyperuricemia, congestive heart failure, hypertension, coronary heart disease (angina, myocardial infarction), urinary tract infections (UTIs).

Tutorials on technologies necessary for the diagnosis, prophylaxis and the potential therapeutic approaches for diseases examined [e.g. diagnostic technologies, like Microarrays, RNA interference, RIA (Radioimmunoassay)].

**Proposed literature:**

1. **Ιωάννης Δ. Νιώπας - Λευκοθέα Χ. Παπαδοπούλου** «Κλινική Φαρμακευτική και Θεραπευτική», Έκδοση: 1/2008, Εκδότης: Σταύρος Αντ. Σαρτίνας.

Lecture updates : <http://www.pharm.auth.gr/papadopoulou/lessonsgr.html>

2. Graham-Smith D. G., Aronson J. K. «Κλινική φαρμακολογία και φαρμακοθεραπεία», Έκδοση: 1η έκδ./2001, Εκδότης: Γ. ΔΑΡΔΑΝΟΣ - Κ. ΔΑΡΔΑΝΟΣ Ο.Ε.
3. ΚΩΝΣΤΑΝΤΙΝΟΣ ΑΘ. ΤΣΟΧΑΣ. ΕΛΕΝΗ Θ. ΧΑΤΖΗΧΡΗΣΤΟΥ «ΚΛΙΝΙΚΗ ΦΑΡΜΑΚΟΛΟΓΙΑ», Έκδοση: 1/2005, Εκδότης: ΛΥΧΝΟΣ ΓΡΑΦΙΚΕΣ ΤΕΧΝΕΣ ΕΚΔΟΤΙΚΕΣ ΕΠΙΧΕΙΡΗΣΕΙΣ ΕΠΕ.
4. ΚΥΡΙΑΚΗ ΜΑΖΑΡΑΚΗ «ΕΦΑΡΜΟΣΜΕΝΗ ΦΑΡΜΑΚΟΛΟΓΙΑ», Έκδοση: 1/2009, Εκδότης: ΚΥΡΙΑΚΗ ΜΑΖΑΡΑΚΗ.

**Educational activities:**

Lectures, discussion with students, and tutorials.

**Evaluation process and methods:**

Examination of the course at the end of the semester performed at dates, time and place arranged by the department (grade  $\geq 5$ ). The duration of the examination is 3 hours.

**Use of ICTs (Information and Communication Technologies) / Electronic distribution of the lectures**

Powerpoint presentation is used in the lectures

**Teaching:****Lectures.**

Lectures are given 3 hours per week (and additionally)

<b>lectures</b>	<b>Title</b>	<b>tutor</b>
1-2	Headache – migraine	Papadopoulou L
3-4	Meningitis	Papadopoulou L
5-8	Hepatitis (viral, autoimmune, alcohol, drug-induced)	Papadopoulou L
9-10	Thyroid gland disorders	Papadopoulou L
11-14	Diabetes (Pathology – insulin – hypoglycemic drugs – new therapeutic approaches – diagnosis)	Papadopoulou L
15-17	Physiological Hemostasis – Disorders of blood coagulation factors	Papadopoulou L
18-19	Hemoglobinopathies	Papadopoulou L
20-21	Asthma	Papadopoulou L
22	Pneumonia Chronic Obstructive Pulmonary disease	Papadopoulou L
23	Peptic ulcer	Papadopoulou L