

INTRODUCTION IN PHARMACEUTICAL SCIENCES

Code number: NP18-10

Cycle: Undergraduate

Semester: 1rst semester

Course type

	Background/General knowledge
X	Scientific area (pharmacy)

Credit Units (ECTS): 4

Lectures (hours/week): 2

Tutorial (hours/week): -

Laboratory work (hours/week):

Course coordinator: Dimitra Hadjipavlou-Litina, Professor

Tutor (s):

Dimitra Hadjipavlou-Litina, Professor

Room 408/B & 410, 4th floor Biology/Pharmacy building.

Collaboration with students: Every day 11-12.

Communication: e-mail (hadjipav@pharm.auth.gr)

Eleni Rekka, professor

Room 409, 4th floor Biology/Pharmacy building.

Collaboration with students: Every day.

Communication: 2310-997614, e-mail (rekka@pharm.auth.gr)

Diamanto Lazari, assistant professor

Room 317, 3rd floor Biology/Pharmacy building.

Collaboration with students: Every day 11-12.

Communication: 2310-997617, e-mail (dlazari@pharm.auth.gr)

Assisting personnel:

Aims of the course: This course is addressed to 1rst semester young pharmacy students to be acquainted with the Pharmaceutical Science, its scope and subjects. The course is not only introductory for the Pharmaceutical Sciences but it might be helpful to the students to explore the historical evolution, the potential and the perspectives of their Scientific field. During the course the following are presented and explained in summary:

The Curriculum in the School of Pharmacy, the profession of the pharmacist and the specialities.

Drugs- diseases - safe use of medicaments.

Food-health- in correlation to the drugs, similarities, differences.

Need for new drugs, routes for drugs' invention.

The role of the pharmacist (in consideration to all the above mentioned) , ethics in Pharmacy.

Skills:

By the end of this course, the students should be able to know and understand:

The subjects of their Science

The History and the evolution of the Drugs/Pharmacy

The drug development and the appropriate methods used within

The correlation between food and drugs under physiological or pathological conditions

The scientific and professional perspectives of pharmacists in a community

Teaching methods: Lectures

Contents of the course:

Tutors:

1) Dimitra Hadjipavlou-Litina

Introduction

Ancient Eastern civilizations

Pharmaceutical Sciences in Mediterranean during the Historical periods:

- Pre-Ippocratic period
- Ippocratic period (5th century –Alexander the Great)
- 1-3rd centuries B.C.

Byzantine period-Middle Ages

Arabs

European period

Alchemists-Alchemy (-chemistry)

Universities (Education)

Pharmaceutical Sciences during 12-17th centuries

2) Eleni A. Rekka

Elements of food, nutrition, in relation to health and drugs. Achievements of Pharmaceutical Sciences. Development of new drugs, methods, purpose. Perspectives of progress in Pharmaceutical Sciences. Organisation and studies at the School of Pharmacy, A.U.T. Pharmaceutical Chemistry: subject, aims, contribution to pharmaceutical education. Professional occupation of pharmacists. Branches in Pharmacy. Elements of Pharmaceutical Deontology.

3) Diamanto Lazari

Pharmacy in the 18th century. Important representatives of this era. Scientific period (from 19th century to present). Homeopathy and Homeopathic Medicines. Greek Pharmacopoeia. National Organization for Medicines (ΕΟΦ). Organisation of studies at School of Pharmacy of Aristotle University of Thessaloniki. Presentation of Scientific Subjects of Departments of Pharmacognosy-Pharmacology and Pharmaceutical Technology.

Proposed literature:

D. Hadjipavlou-Litina

1. History of Pharmacy, G. Fokas

- American Institute of the History of Pharmacy
- History of Pharmacy: A Guide and a Survey, E Kremers, G Urdang - 1940 - JB Lippincott Company

E. Rekka

- S. Anderson, "Making medicines: A brief history of Pharmacy and Pharmaceuticals", Pharmaceutical Press, 2005

D. Lazari

- www.efe.org.gr
- www.eof.gr

Educational activities: Lectures, discussion with the students in every lecture.

Evaluation process and methods: Examination is performed at the end of the semester. To compute the final grade, the grade which is given by each tutor (3.33) is added

The duration of the examination is 2 hours for the three tutors.

The examination at the end of the semester is performed at dates, time and place arranged by the department.

Use of TIC / Electronic distribution of the lectures

Lectures, notes, statements etc are presented in the corresponding place of the website of the School of Pharmacy.

Teaching: Teaching of this course is accomplished through lectures

Lecture	Title	Tutor
1	Introduction Ancient Eastern civilizations	D. Hadjipavlou-Litina
2	Historical periods of Pharmaceutical Sciences in Mediteranian	D. Hadjipavlou-Litina
3	Byzantine period, Middle Ages, Arabs, European period, Alchemists, Alchemistry	D. Hadjipavlou-Litina
4	The universities period of pharmaceutical Education, Pharmaceutical Sciences during the 12 th -17 th centuries	D. Hadjipavlou-Litina
5	HEALTH, FOOD, DRUGS: Evolution from the appearance of humans until today. Relation of food with drugs.	E. Rekka

6	MEDICINES, PHARMACY: Definition, contents. BRANCHES OF PHARMACEUTICAL SCIENCES - Pharmaceutical/Medicinal Chemistry	E. Rekka
7	METHODS OF DRUG DISCOVERY AND DEVELOPMENT: Description, Targets, Significance and usefulness of drugs, Proper use of medicines. The offer of drugs to mankind.	E. Rekka
8	Professional occupation of pharmacists. Branches in Pharmacy. Elements of Pharmaceutical Deontology.	E. Rekka
9-10	Pharmacy in the 18 th century. Scientific period (from 19 th century to present).	D. Lazari
11	Greek Pharmacopoeia. National Organization for Medicines (ΕΟΦ).	D. Lazari
12	Organisation of studies at School of Pharmacy of Aristotle University of Thessaloniki. Presentation of Departments of Pharmacognosy-Pharmacology and Pharmaceutical Technology.	D. Lazari
13	Future trends in pharmaceutical science-professional outlets in Greece	D. Hadjipavlou-Litina E. Rekka D. Lazari

A) **Lectures.** Lectures (13 of 2 hours each) are given in the lecture room D12 (main building of the School of Natural Sciences)

B) Laboratory work: Not exist