2023-2024

Study Guide
Department of Pharmacy

Facilities

Satellite ①
Floors: -1, +1

Satellite ②
Floors: -1, +1

Satellite ③
Floors: -1, +1

Satellite ④
Floors: -1, +1

Lecture Hall
P. Cordopatis

Classroom
D. Ithakissios

Entrance

Floor: 0

Find us in the Map

Secretariat

Classroom
D. Ithakissios

Entrance

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Secretariat

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D. Ithakissios

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Entrance
This edition of the Study Guide presents the Organization of the Department of Pharmacy on October 2nd, 2023 (Version 01)

Any modifications and/or additions to this Study Guide of Studies, which will occur during the academic year 2023-2024, will be incorporated (after the approval of the Department’s Assembly) in the previous one, while the Department’s website will always contain the Official Edition 🕵️.

Each subsequent edition contains in detail any changes, the pages in which they have been made in relation to the previous one, as well as the number of the latest valid edition (which is also displayed in the footer of the single numbered pages).

The Guide is published only in electronic format [.pdf file - Adobe Acrobat®] and is configured to facilitate reading in electronic media, including hyperlinks to the Internet, to internal pages, etc. (see Symbols).

The Department of Pharmacy and the University of Patras retain all rights for this Issue.

SYMBOLS  [links, bookmarks, files’ downloading]

🔗 Internet Hyperlink
➡️ Internal bookmark
⬇️ Hyperlink to a file download

All html & email references are active !

Edited by George N. Pairas, 2023

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eMail: pharminf@upatras.gr & Web: http://www.pharmacy.upatras.gr
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The University of Patras

The University of Patras was founded by the L.D. 4425 of November 11th, 1964 and has been in operation since 1966. The establishment of the University contributed vastly to the decentralization of Academic Education in Greece. In June 2013 the University of Western Greece was incorporated in the University of Patras and in 2019 the Technological Educational Institute of Western Greece was incorporated as well.

At present, the University is a six-city campus: Patras, Messolonghi, Agrinio, Aigio, Pyrgos & Amaliada, with the main facilities (University Campus of Patras) located in a single area of 4,500 acres, 12 km S.E. from the city of Patras.

It is the third University of Greece in terms of student, teaching, administrative and other personnel, number of Departments and awarded degrees.

The Department of Pharmacy

a. Short Overview

The Department of Pharmacy was originally founded in 1977 by Presidential Act 835/1977 ΦΕΚ Α’ 271. It received its first students in 1978 as a constituent Department of the School of Physical-Mathematical Sciences, whereas since 1983, together with the Department of Medicine, they form the School of Health Sciences (Presidential Act 127/83).

The first officially founded Laboratory of the Department of Pharmacy was that of Pharmaceutical Chemistry (1979), followed by rapid addition of Faculty Members affiliated with the new Laboratories of Pharmaceutical Technology (1981), Instrumental Pharmaceutical Analysis (1987), Pharmacognosy and Chemistry of Natural Products (1988), Molecular Pharmacology (1989), Radiation Therapy (1989), Pharmacokinetics (1989) and Physical Pharmacy (1991). The foundation as well as the internal function of all of the above Laboratories was officially approved by Presidential Act (ΦΕΚ 38/22-02-95 τ(1)). The Laboratory of Molecular Biology and Immunology was founded in 2003, and in 2018 the Laboratory of Pharmacogenomics and Individualized Therapy.

With the aforementioned Laboratories are affiliated 21 Faculty Members, 2 Laboratory Teaching Staff members and 4 Special Technical Laboratory Staff members. The Administration is supported by the Secretary of the Dept. and 3 Administrative Staff members.

According to the current Academic Year data (September 29th, 2023), the Department trains 1090 undergraduate students, 53 in various stages of Ph.D. completion and 210 post-graduates in the framework of the 2 supported Postgraduate Programs:

a. "Drug Design and Discovery" &

b. Cosmetology - Preparation & Evaluation of Cosmetic Products

In addition the Department participates in the Interdepartmental Postgraduate Program: "Informatics for Life Sciences" and in the Inter-institutional "Nanomedicine for Drug Delivery (NANOMED)", supported by 4 European Universities, namely: Paris Descartes University (coordinator, France), Patras University (Greece), Pavia University (Italy) and Angers University (France).
b. Administration

University Administration Bodies
The University Administration bodies are the Council, the Rector, assisted by the Deputy Rectors, and the Senate.

School Administration
The decision making bodies of each School are the Dean, the Deanery and the General Assembly.

Department Administration
At the departmental level the administrative decisions are established by the Chairman and the [General] Assembly.

Chairman: Professor Sotiris S. Nikolaropoulos
Deputy Chairman: Professor Fotini Lamari

Members of the General Assembly: Academic Staff (All), One Representative of Laboratory Teaching Staff (elected), one Representative of Special Technical Laboratory Staff (elected), Two Representatives of Post Graduate Students (elected) and Two Representatives of Under Graduate Students (elected)

c. Scientific Sections & Laboratories
PERSONAL PAGES - RESEARCH INTERESTS - RECENT PUBLICATIONS [BY SECTIONS]

a. Academic Staff

SECTION OF PHARMACEUTICAL TECHNOLOGY AND ANALYSIS [S1]
- Antimissiaris Sophia, Professor ................................................................. 9
- Avgoustakis Konstantinos, Professor Section Director .......................... 10
- Hatziantonion Sophia, Assist. Professor .................................................. 12
- Klepetsanis Paul, Assoc. Professor ............................................................ 13
- Kontoyannis Christos, Professor ............................................................... 14
- Orkoula Malvina, Assist. Professor ............................................................ 21

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- Lagoumintzis George, Assist. Professor .................................................. 15
- Mikelis Constantinos, Assoc. Professor .................................................... 19
- Papadimitriou Evangelia, Professor .......................................................... 23
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- Fousteris Manolis, Assoc. Professor .......................................................... 11
- Lamari Fotini, Professor Deputy Chairman ............................................. 16
- Magafa Vassiliki, Assist. Professor ............................................................ 17
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- Spyroulias George, Professor ................................................................. 28

b. Laboratory Teaching Staff
- Pyrioxou Anastasia .................................................................................. 31
- Zissi Georgia ......................................................................................... 32
Research Interests

- Biopharmaceutics and Pharmacokinetics: Improving Drug Biodistribution and Pharmacokinetics through Advances Drug Delivery System Design
- Nanomedicines: Liposomal or Nanoparticulate systems for Controlled Drug (or Vaccine) Delivery and/or Targeting.
- Application of novel lipid vesicles (Arsenoliposomes) in Anticancer / Antiparasitic Therapeutics.
- Novel Controlled-(Release)-Drug-Releasing Stents.
- Delivery of Microbicides for prevention of Sexually transmitted HIV.
- Ocular Drug Delivery (intravitreal injection of novel drug delivery systems).
- Drug Delivery Systems for targeting alveolar macrophages after delivery by nebulization.
- Application of Liposomes in Analytical Techniques

Indicative Publications

Constantinos Avgoustakis  
Professor

Ph.D.  
Department of Pharmacy  
University of Thessaloniki, 1991

Ph.D.  
King’s College,  
University of London, 1992

Tel: +30 2610 96 2317,  
Email: avgoust@upatras.gr

Research Interests

- Targeted delivery of anticancer drugs based on i) biodegradable, polymeric, long-circulating ("stealth") nanoparticles and ii) magnetic hybrid organic-inorganic nanoparticles,
- Development of novel prophylactic or therapeutic vaccines based on biodegradable and biocompatible, polymeric nano- and micro-particles,
- Development of formulations for the efficient delivery of drugs with limited aqueous solubility

Indicative Publications


Research Interest

✦ Design and synthesis of small heterocyclic molecules as potential protein kinase inhibitors.

✦ Design, synthesis and evaluation of the biological activity of new steroidal alkylating agents.

✦ Design, synthesis and structure-activity relationship studies of novel steroidal derivatives with anticancer activity.

Indicative Publications


Sophia Hatziantoniou

Assist. Professor

Ph.D.

Department of Pharmacy
University of Athens, 1999

Tel: +30 2610 96 2319
Email: sohatzi@upatras.gr

Research Interests

✦ Design and study of nanocarriers as transporters of biologically active molecules
✦ Incorporation of drug molecules in nanosystems (liposomes, nanoemulsions, solid state lipid nanoparticles (SLN), polymeric systems, dendrimers), to improve the pharmacokinetic properties, bioavailability and pharmacological response in target tissues (tumors, lung, skin).
✦ Formulation of novel carriers of bioactive molecules into final products and study their characteristics (size distribution, zeta-potential, particle surface morphology, content of actives and excipients, active bioavailability, stability).
✦ Study of the interaction of bioactive molecules with model lipid membranes mainly by Thermal Analysis in order to design new formulations, as well as to predict their interaction with biological membranes.

Indicative Publications


Back to the Academic Staff List ⇫
Research Interests

✤ Physicochemical characterisation of pharmaceutical forms.
✤ Physicochemical studies of biopolymers.
✤ Biomineralisation and demineralisation.
✤ Corrosion of metallic implants in biological fluids.

Indicative Publications


Research Interests

- Characterization of polymorphs in pharmaceutical formulations. Stability studies
- Novel Diagnostic Techniques for Bone Diseases
- Development of non-destructive methodologies using spectroscopic (Raman, IR, XRF) and electrochemical techniques (DPP, Impedance spectroscopy, CV). Application in pharmaceutical formulations, bioceramics, uroliths, bones, release kinetics of active substances from nano-polymeric tubes and liposomic carriers, etc.
- New biomaterials (synthesis, characterization, physicochemical properties)

Indicative Publications

Research Interests

✦ Signal transduction pathways - Innate immunity – Host Defense and Infections
✦ Cloning, expression, and biochemical characterization of protein molecules
✦ Host Pattern Recognition Receptors (PRRs) interactions with pathogens
✦ Study of the gut microbiome in human pathophysiology (immunocompromised patients) and the pharmacologic action of cholesterol-lowering drugs
✦ Oxidative stress - Metabolic diseases - Pleiotropic effects of statins
✦ Study of the pathophysiological mechanisms in autoimmune neuromuscular diseases
✦ Electronic nicotine delivery devices (ENDS) in human health

Indicative Publications

Research Interests

✧ Phytochemical analysis of extracts and essential oils of medicinal and aromatic plants with modern chromatographic techniques
✧ Isolation and structural characterization of natural products: Structure-function studies
✧ Development of analytical methods for quality control of herbal drugs and determination of natural products in biologic samples
✧ Ethnopharmacological studies

Indicative Publications


Tel: +30 2610 96 2335, 96 2337
Email: flam@upatras.gr

Back to the Academic Staff List
Research Interests

- Chemistry of amino acids and peptides
- Synthesis in liquid and solid phase analogues of biologically important peptides [Hormones (Substance P, Angiotensin II, Oxytocin, Vasopressin, Luteinizing hormone-releasing hormone, Somatostatin, Neurotensin, Corticotropin-Releasing Factor), Antimicrobial peptides (Chrysophsin), Conopeptides (χ-MrIA)]
- Study of structure-activity relationships of biologically important peptides
- Synthesis and study of Cysteine - Containing Oligopeptides and their Complexes with heavy metals

Indicative Publications


Back to the Academic Staff List ⇢
Constantinos Mikelis  
Assoc. Professor  

Ph.D.  
Department of Pharmacy,  
University of Patras, 2009

Tel: +30 2610 96 2362  
Email: kmikelis@upatras.gr

Research Interest

✦ Role of small GTPases on blood and lymphatic vascular physiology  
✦ Endothelial cell signaling circuits and their impact on metastatic potential  
✦ Tumor-endothelial cell interaction: mechanisms and biological outcome

Indicative Publications


Back to the Academic Staff List
Research Interest

- Design, synthesis and study of biological activity of antineoplastic drugs
- Design and synthesis of heterocyclic steroids and analogues of them
- QSAR
- Drug design

Indicative Publications


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Malvina Orkoula

Assist. Professor

Ph.D.
Department of Chemical Engineering
University of Patras, 2001

Tel: +30 2610 96 2342
Email: malbie@upatras.gr

Research Interest

- Development of non-destructive methodologies for qualitative and quantitative determination of pharmaceutically active substances in solid and liquid formulations.
- Characterization of polymorphic phases (generic drugs).
- Development of novel methodologies for qualitative and quantitative determination of substances with pharmaceutical activity in biological fluids.
- Development of novel methodologies for the study of bone and cartilage diseases (osteoporosis, osteoarthritis).

Indicative Publications

Research Interests

- Natural & Modified Steroids - Design and Synthesis of Ester and Amide derivatives - Evaluation of Possible Anti-tumor Activity
- Heterocyclic Compounds - Bioactive Building Blocks in Heterocyclic Synthesis
- Drugs against Infections
- Peptides & Polypeptides - Synthesis - Conformational Studies

Indicative Publications

Research Interests

✦ Angiogenesis and tumor growth in vivo and in vitro. Pharmacological studies on the mechanisms involved, and evaluation of new compounds or nanoparticles for their anti-angiogenic and anti-tumor activity.

✦ The biological actions of the heparin-binding growth factor pleiotrophin. Effects on endothelial cell functions, angiogenesis, tumor growth and metastasis, bone cell biology. Signaling and receptors identification. Structure-function studies and development of therapeutic applications.

✦ The role of receptor RPTP beta/zeta in the cardiovascular and the skeletal system. Structure-function studies.

Indicative Publications


George Patrinos
Professor

Tel: +30 2610 962339, 962368
Email: gpatrinos@upatras.gr

Research Interests

- Genome discovery in pharmacogenomics
- Clinical implementation of pharmacogenomics
- Genomics of rare diseases and rare drug outcomes
- Human Genome informatics and human genome databases
- Translational tools in pharmacogenomics and personalised medicine
- Public Health Pharmacogenomics
- Economic evaluation in genomic and personalised medicine

Indicative Publications


Research Interests

- Biochemistry and Toxicology focusing at Electronic Nicotine Delivery (END) systems and e-liquids
- Recombinant proteins
- Crystallization and crystallography of proteins
- Electroceuticals/Bioelectronic medicine
- Innovative and Functional foods

Indicative Publications


2. El Mubarak M, Danika C, Vlachos N, Farsalinos K, Poulas K, Sivolapenko G. Development and validation of analytical methodology for the quantification of aldehydes in e-cigarette aerosols using UHPLC-UV. 2018 Food and Chemical Toxicology. 116(Pt B):147-151


Research Interests

- Preclinical and clinical studies of bioavailability and pharmacokinetics of new chemical entities.
- Pharmacokinetic and pharmacodynamics interactions. Toxicokinetics.
- Pharmacokinetic and Pharmacogenomic interactions.
- Drug clinical development, design & conduct of Phase I-IV clinical trials.

Indicative Publications


Research Interests

- Molecular mechanisms underlying cancer development, invasion/metastasis: tumor suppressors; identification of cancer-associated genes/proteins for the development of targeted pharmaceutical compounds & molecular diagnostics.
- Proteases and protease inhibitors. Kallikrein-related proteases (KLKs).
- Protease inhibitors (proteins/peptides, LMW/synthetic, aptamers)
- Cancer epigenetics: Pharmacological modulation/unmasking of epigenetically silenced tumor suppressors; epigenetic markers.
- Tumor micrometastasis: Minimal residual cancer. Tumor biomarkers.
- Animal models for human diseases.
- Production and engineering of recombinant proteins

Indicative Publications

Research Interests

- Design/Simulation of bioactive molecules of pharmaceutical interest and Conformational Analysis of biomolecules through Nuclear Magnetic Resonance Spectroscopy (NMR).
- Structural Bioinformatics applied in homology modeling of unknown structures of biomolecules, protein-protein/peptide/substrate interaction through molecular dynamics simulation, docking simulation protocols.
- In silico design and development of combinatorial libraries of compounds and virtual screening process towards the quest of lead-molecules with biological activity towards protein/enzyme targets, etc.

Indicative Publications

Research Interests

Pharmacology of Vascular, Inflammatory and Fibroproliferative diseases

- Past and present investigations address the molecular pathways operating in endothelial and smooth muscle cells and which are amenable to targeting by novel or optimized therapeutics.
- These pathways control blood pressure and vascular resistance, inflammatory and thrombotic processes, solid tumor/wound angiogenesis, and are critically involved in the onset and progress of chronic cardiovascular and metabolic diseases (e.g. atherosclerosis, arterial calcification, restenosis).
- At the cellular and molecular levels, past research has addressed a) critical aspects of phenotypic determination and functional control of vascular smooth muscle and endothelial cells, triggered by morphogenetic cues (e.g. TGF-β and PDGF) and transcriptional regulators (e.g. SRF, Myocardins, COUP-TF II), and b) modulation of the interaction of the blood vessel wall with circulating cells such as monocytes/macrophages, platelets and T-cells (e.g. IL-22Ra2, TFPI-2, CNP, IL-31).

Indicative Publications


**Konstantinos Vasileiou**  
*Assist. Professor*

Tel: +30 2610 962322  
Email: konvasil@upatras.gr

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**Research Interests**

Pharmacology of Vascular, Inflammatory and Fibroproliferative diseases

- Pharmaceutical Marketing
- Healthcare Marketing
- Pharmacoeconomics
- Healthcare Economics

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**Indicative Publications**


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Back to the Academic Staff List
**Research Interests**

- Study of novel angiogenic factors and newly designed inhibitors of angiogenic processes
- Mechanisms of angiogenic processes triggered by growth factors
- The angiogenic actions of hydrogen sulfide (H$_2$S)-underlying molecular mechanisms in the vasculature

**Indicative Publications**


Research Interests

- Use of spectroscopic methods for the determination of the structural and dynamic properties of inorganic compounds and pharmaceutical substances.
- Chemistry of rare earth compounds.
- Synthesis and physicochemical investigation of ionic compounds in the solid, liquid and glassy state.

Indicative Publications

**Undergraduate Studies**

a. Outline

The education system in Greece is based on semesters. There are two semesters per academic year. The first (Fall) semester begins in October 1st and ends in January 31st. Classes for the second (Spring) semester resume the 16th February and last until 10th of June. Students admitted for undergraduates studies need 10 semesters (5 years) in order to graduate, that is to obtain the diploma of Pharmacy ("Ptychion" in Greek). During each semester a student has to follow ca. 4 to 6 courses with a total of around 24-39 hrs of attendance per week.

A course can consist of Lectures or Lectures and practical work (Laboratory). The courses offered in our Department are grouped in semesters (fall and spring). Lectures can be followed by students at will, whereas attendance of Laboratories is mandatory. In most courses there is not any formal assessment throughout the semester. In rare cases, Lecturers offer partial exams within the semester and the grades obtained at these exams are taken into account in the final mark. However, in the Labs the students are constantly examined usually orally on the theory and practice for each experiment they are to perform before or during their Lab work and finally have to present written account of their results one week after the end of each exercise. All these are taken into account in the final mark together with the results of the final written examination that is associated with each particular Lab. Failure to successfully perform up to 20% of the Laboratory sessions results in the obligation for the student to make up the lost sessions by additional Laboratory work. In cases in which students missed more than 20% of the Laboratory work accompanying a course, they are not allowed to take the final exam of the course. The exam can only be taken after the successful completion of the Laboratory work. The Laboratory work usually includes four to six Laboratory units per semester.

Courses are offered in the Greek language and the faculty members teach the related material based on Greek textbooks. These textbooks usually are either the exact translation of the English counterparts or are based on them. Thus the content and the level of these Greek textbooks are similar to the corresponding English ones. For an ECTS student whose native language is not Greek and his/her Greek is not good enough to be able to study from a greek textbook there can always be easily found an English textbook with similar content to that his/her fellow greek students use. These textbooks are offered on loan by our university central library.

During their final year and in addition to the courses they follow the students have to carry out a short research project called Diploma Work under the supervision of a member of the academic staff. At the end of this work, students have to provide a written account of their results and often to present them orally. A grade is then assigned to the student by the supervisor involved reflecting the overall performance of the student. This grade should be at least 5 for a successfully completed Diploma Work. A senior year student is also required to make study visits to both Pharmaceutical Industries and Drug Stores. The
duration of the practice period is approximately two semesters. Credit for this activity is
given through the courses named Pharmaceutical Practice I & II. The grade assigned for
these courses is the average of student performance, student reports and final examination
grade.

A course is considered as being successfully passed only when the student has acquired at
least the grade 5 out of 10 in the associated exams. The grading scheme, based on a 0 to 10
scale is as follows:

<table>
<thead>
<tr>
<th>Grade Type</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCELLENT</td>
<td>8.5 to 10</td>
</tr>
<tr>
<td>VERY GOOD</td>
<td>6.5 to 8.5 (not included)</td>
</tr>
<tr>
<td>GOOD</td>
<td>5.0 to 6.5</td>
</tr>
<tr>
<td>UNSATISFACTORY</td>
<td>0 to 5.0 (not included)</td>
</tr>
</tbody>
</table>

The minimum passing grade is 5.0 and all the grades are expressed as integers. However a
course associated with Lab work requires in addition also successful completion of the Lab
work and for the final mark both the grade in the exam and the Lab performance are
considered with factors which vary from Lab to Lab. Exams are offered to the students
after the end of each semester and repeat exams in September. However students who
have failed in these exams or not participated at all can sit for these exams as many times
as they wish in the following exams periods. A student is considered as having completed
his/her studies in our Department only when he/she has passed all the exams associated
with all courses consisting our curriculum.

Taking into account the Greek higher education system the basic requirements of the ECTS
system for 30 credits for each semester was met in the Department by initially assigning
for each 1 hr per week per semester of Lecture and Lab work 1 ECTS credit. Additional
ECTS credits were then added to those of the course that are considered as the most hard
for the students to be passed that is those requiring higher student workload.

ECTS students who have studied for at least a year in our institution can be considered as
candidates to obtain the Diploma (Ptychion) in Pharmacy offered by the Department for
undergraduate studies. The ECTS Committee of our Department dealing with the
recognition of studies carried out abroad will consider students transcripts of records and
their performance at our Department. Courses successfully completed abroad will then
correlated to those in Patras. If there is no need for additional courses to be taken by the
student in Patras in order to fulfil the requirements imposed by our curriculum this
committee will propose the General Assembly of the Department to offer our Diploma
(Ptychion) to that particular student. Otherwise, the student will have to attend and
successfully pass all those courses that are needed to complete our curriculum.

b. Academic Calendar

<table>
<thead>
<tr>
<th>Academic Calendar 2023-2024</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester Courses</td>
<td>02.10.2023</td>
<td>12.01.2024</td>
</tr>
<tr>
<td>Fall Semester Exams</td>
<td>22.01.2024</td>
<td>09.02.2024</td>
</tr>
<tr>
<td>Spring Semester Courses</td>
<td>19.02.2024</td>
<td>31.05.2024</td>
</tr>
<tr>
<td>Spring Semester Exams</td>
<td>10.06.2024</td>
<td>28.06.2024</td>
</tr>
<tr>
<td>September Exams (Prev. Academic Year)</td>
<td>28.08.2023</td>
<td>23.09.2023</td>
</tr>
</tbody>
</table>
c. University Holidays & Days-off

The University academic year runs from September to June.

- 28 October: The Ochi Day [National Celebration]
- 17 November: Polytechnieio Day [Anniversary of the 1973 Students’ uprising in the National Technical University of Athens against the junta]
- 30 November: St. Andrew Day [Patron Saint of the city of Patras]
- 24 December - 6 January: Christmas Holidays
- January 30: The Three Holy Hierarchs [Celebration of the Education Day]
- Clean Monday [Orthodox Shrove Monday, Movable]
- 25 March, Dual holiday: 1. Anniversary of the declaration of the start of Greek War of Independence from the Ottoman Empire, in 1821. 2. Celebration of the Annunciation of the Lord.
- Orthodox Easter Holidays [Movable]
- 1 May: Labor Day
- 24 June: Holy Spirit Monday
- Students’ Elections Day [Spring, Movable]

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d. Curriculum & Courses for 2023-2024

Starting from the Academic Year 2016-2017, the Department’s Assembly redesigned and reshaped the Curriculum of the Department of Pharmacy in order to cover modern scientific fields, as well as to comply with the corresponding European Union standards.

The New Curriculum of the Department of Pharmacy is being implemented gradually and annually from 2016-2017 with its first graduates completing the E Year in the Academic Year 2020-2021 (completion of the 10th semester of studies in June 2021).

The Old Curriculum is inactive - completed at the Academic Year 2019-2020.

**The Curriculum applies:**

to students enrolled in the 1st semester of the academic year 2016-2017 and thereafter, who follow -and will be examined in- the courses coded as "PHA-XYY-NEW" [New Curriculum of the Department of Pharmacy].

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Table of Contents ☞ Phones & eMails ☞
eMail: pharminf@upatras.gr & Web: http://www.pharmacy.upatras.gr
## DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2023-2024
### NEW CURRICULUM
### 1’ YEAR STUDENTS FROM 2016 – 2017 & LATER
### YEAR 1’ - 1st SEMESTER
(Fall, Running from 2016-2017)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>TITLE</th>
<th>TEACHING ASSIGNMENT</th>
<th>L</th>
<th>T</th>
<th>Lb</th>
<th>ECTS</th>
<th>Course Outline</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHA-A11-NEW EN</td>
<td>General and Inorganic Chemistry</td>
<td>V. Magafa</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>6</td>
<td></td>
</tr>
<tr>
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### Student Labs [SL] No: ➍ & ➎ - GO TO Building Plan Overview

- ♦ Course Communication Officer
- ● Faculty Member
- ■ Laboratory Teaching Staff Member
- ✤ Appointed Teaching Staff
- ○ Academic Scholar
- □ Invited Speaker
- ◆ Lectures - Tutorial Classes
- ☑ Laboratories


* EN: Instructed/Guided self study in english for Erasmus Students.
### Course Code Erasmus* | TITLE | TEACHING ASSIGNMENT | L | T | Lb | ECTS | Course Outline
---|---|---|---|---|---|---|
PHA-A21 -NEW EN | Analytical Chemistry | 3 | 4 | 2 | 5 |  |
| | F. Lamari | ●●● | 1 |  |
| | V. Magafa | ● | 1 |  |
| | G. Pairas | ●● | 1 |  |
| | G. Spyroulias | ● | 1 |  |
| | G. Zissi | ● | 1 |  |
PHA-A22 -NEW | Biochemistry I | 8 | 4 | 0 | 3 | 7 |  |
| | G. Lagoumintzis | ●● | 1 |  |
| | K. Poulas | ●●● | 1 |  |
| | G. Spyroulias | ● | 1 |  |
| | A. Pyrioxou | ● | 1 |  |
PHA-A23 -NEW | Morphology of Human Body | 2 | 3 | 0 | 0 | 4 |  |
| | Pending | ● | 2 |  |
PHA-A24 -NEW EN | Organic Chemistry | 4 | 4 | 2 | 0 | 6 |  |
| | S. Nikolaropoulos | ●● | 1 |  |
| | F. Lamari | ● | 1 |  |
PHA-A25 -NEW EN | Physiology I | 4 | 4 | 0 | 0 | 6 |  |
| | C. Mikelis | ● | 1 |  |
PHA-A26 -NEW EN | English Language & Terminology II | 5 | 3 | 0 | 0 | 2 |  |
| | Pending | ● | 5 |  |

**TOTAL** 22 4 7 30 30

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*EN: Instructed/Guided self study in english for Erasmus Students.

**Course Communication Officer**  
**Faculty Member**  
**Laboratory Teaching Staff Member**  
**Appointed Teaching Staff**  
**Academic Scholar**  
**Invited Speaker**  
**Lectures - Tutorial Classes, Laboratories**  
Affiliation - Department of: Pharmacy: 1, Medicine: 2, Foreign Lang. Teaching Unit: 5.

---

**Student Labs [SL] No: ❼ & ❼ - GO TO Building Plan Overview**
## DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2023-2024
### NEW CURRICULUM
**1’ YEAR STUDENTS FROM 2016 – 2017 & LATER**

### YEAR 2’ - 3rd SEMESTER
*(Fall, Running from 2017-2018)*

### Course Code | Erasmus* | TITLE | TEACHING ASSIGNMENT | L | T | Lb | ECTS | Course Outline
--- | --- | --- | --- | --- | --- | --- | --- | ---
PHA-B11-NEW |  | Biochemistry II | G. Lagoumintzis | 4 | 0 | 3 | 7 | 🟢
|  |  |  | K. Poulas | |  | |  | 🟢
|  |  |  | A. Pyrioxou | |  | 1 |  | 🟢
PHA-B12-NEW | EN | Synthetic Organic Chemistry | M. Fousteris | 4 | 2 | 4 | 8 | 🟢
|  |  |  | S. Nikolaropoulos | | 1 |  |  | 🟢
PHA-B13-NEW |  | Physical Chemistry | P. Klepetsanis | 4 | 0 | 3 | 7 | 🟢
|  |  |  | Ch. Kontoyannis | |  | 1 |  | 🟢
|  |  |  | M. Orkoula | | 1 |  |  | 🟢
PHA-B14-NEW | EN | Physiology II | C. Mikelis | 4 | 0 | 0 | 6 | 🟢
PHA-B15-NEW | EN | English Language & Terminology III | Pending | 3 | 0 | 0 | 2 | 🟢
**TOTAL** | 19 | 2 | 10 | 30 | 🟢

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*EN: Instructed/Guided self study in English for Erasmus Students.*

### Table of Contents 🔄
**Phones & eMails 🔄**
*University of Patras – Dept. of Pharmacy – Acad. Year 2023-2024 – Version: 01*
## Year 2' - 4th Semester
(Spring, Running from 2017-2018)

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* EN: Instructed/Guided self study in English for Erasmus Students.
### Course Schedule

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*EN: Instructed/Guided self study in English for Erasmus Students.*
### Year 3' - 6th Semester

*(Spring, Running from 2018-2019)*

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**Student Labs [SL] No: 1, 2, 5 & 6 - GO TO Building Plan Overview**

- **Course Communication Officer**
- **Faculty Member**
- **Laboratory Teaching Staff Member**
- **Appointed Teaching Staff**
- **Academic Scholar**
- **Invited Speaker**
- **Lectures** - **Tutorial Classes**
- **Laboratories**
- **Affiliation - Department of Pharmacy:**

*EN: Instructed/Guided self study in English for Erasmus Students.*

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**Table of Contents**

**Phones & eMails**

E-mail: pharminf@upatras.gr & Web: http://www.pharmacy.upatras.gr
### Table of Courses

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*EN: Instructed/Guided self study in english for Erasmus Students.

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**Student Labs [SL] No:** ➊ & ➋ - GO TO Building Plan Overview ☞

- ✪ Course Communication Officer
- ● Faculty Member
- ■ Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- ☘ Academic Scholar
- ☐ Invited Speaker
- ◆ Lectures - Tutorial Classes, ☘ Laboratories

Affiliation - Department of: Pharmacy; 1

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Table of Contents ☞ Phones & eMails ☞

University of Patras – Dept. of Pharmacy – Acad. Year 2023-2024 – Version: 01
## YEAR 4’ - 8th SEMESTER
(Spring, Running from 2019-2020)

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- **TITLE**
- **ECTS**
- **Course Outline**

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*EN: Instructed/Guided self study in english for Erasmus Students.*
### NEW CURRICULUM

#### 1' YEAR STUDENTS FROM 2016 – 2017 & LATER

#### YEAR 5’ - 9th SEMESTER

*(Fall, Running from 2020-2021)*

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**TOTAL** 6 1 30 30

- ![icon](image) Course Communication Officer
- ![icon](image) Faculty Member
- ![icon](image) Laboratory Teaching Staff Member
- ![icon](image) Appointed Teaching Staff
- ![icon](image) Academic Scholar
- ![icon](image) Invited Speaker
- ![icon](image) Lectures - Tutorial Classes
- ![icon](image) Laboratories

Affiliation - Department of Pharmacy: ![icon](image)

* EN: Instructed/Guided self study in english for Erasmus Students.

** Only after individual agreement with a Faculty Member

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**NEW CURRICULUM**

1' YEAR STUDENTS FROM 2016 – 2017 & LATER

**YEAR 5’ - 10th SEMESTER**

*(Spring, Running from 2020-2021)*

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**TOTAL** 3 0 33 30

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■ Laboratory Teaching Staff Member ◆ Appointed Teaching Staff
○ Academic Scholar □ Invited Speaker
◆ Lectures - Tutorial Classes, ◆ Laboratories
Affiliation - Department of: Pharmacy: 1

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Departmental Postgraduate Program

“Drug Discovery & Development”

a. Outline

The Drug Discovery and Development (DDD) Master of Science (MSc) degree is an 18-months curriculum offering a high quality and multidisciplinary training in modern fields of Pharmaceutical Sciences, including all stages required from the discovery of a new bioactive compound until its release as a drug, as well as the strategies followed for the discovery of bioactive compounds. The program aims at:

- Training young scientists in modern fields of Pharmaceutical Sciences to create appropriate human resources that will support the country's participation in international scientific developments and contribute to the assimilation of the introduced technology and its penetration into new disciplines of Science.

- Linking the research effort to business development, enhancing technology transfer mechanisms to Greek pharmaceutical companies' production units and meeting specific professional needs related to the business design, development and distribution of pharmaceutical products.

- The production of scientists capable of pursuing doctoral studies in related scientific fields.

- Providing theoretical and practical knowledge to postgraduate students in order to successfully meet the requirements of positions of responsibility in the pharmaceutical and related industries, Regulatory Organizations, as well as diagnostic and research laboratories, in Greece and internationally.

Graduates from Health Sciences and other related subject areas are admitted. The maximum number of enrolled students shall be no more than forty (40). English language proficiency is a main requirement. Total ECTS credits required for obtaining the degree amounts to 90, distributed in three (3) semesters (30 ECTS per semester). MSc students are required to successfully attend and complete all courses, compulsory or elective, of the specialization in which they have enrolled, to participate as tutors in laboratory courses and tutorials, to attend seminars and study courses and draw their MSc thesis in subject related to the specialization they study. Lessons and writing the thesis will be in Greek and in specific cases in English.

b. Awarded Title - Specializations

The Postgraduate Studies Program "Drug Discovery and Development" leads to the award of a Master of Science (MSc) Degree in "Drug Discovery and Development" on the following Specializations:

1. Medicinal Chemistry – Natural Products
2. Industrial Pharmaceutics
3. Molecular Pharmacology and Biotechnology

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Email: pharminf@upatras.gr & Web: http://www.pharmacy.upatras.gr
c. Curriculum: Courses Outlines & Teaching Assignments in web links

[\times]: ECTS

The courses are semestral, divided into fall and spring semesters. Total credit points (ECTS) required for obtaining the MSc amount to 90 ECTS, distributed in three semesters (30 ECTS per semester). Courses’ attendance is mandatory.

A. Core Courses (1st semester)
Graduate students must choose three (3) out of four (4) courses among DPHA_1, DPHA_2, DPHA_3 & DPHA_4. Courses DPHA_5 και DPHA_6 are mandatory for all.

- DPHA_1 Design and Discovery of Bioactive Compounds [8] ⇔
- DPHA_2 Design and Development of Pharmaceutical Products [8] ⇔
- DPHA_3 Pharmaceutical Analysis-Biospectroscopy [8] ⇔
- DPHA_4 Preclinical and Clinical Drug Evaluation [8] ⇔
- DPHA_5 Research Methodology and Ethics [4] ⇔
- DPHA_6 Literature-based seminar [8] ⇔

B. Specialization Courses (2nd semester)
Students should choose two (2) courses from the specialization they have enrolled in and one (1) from any specialization. ECTS credits for all specialization courses are 5.

1. Medicinal Chemistry - Natural Products
   - DPHA_A01 Natural Products in Drug Discovery [5] ⇔
   - DPHA_A02 Modern methods in drug synthesis [5] ⇔
   - DPHA_A03 Biomolecular NMR and protein architecture [5] ⇔

2. Industrial Pharmacy
   - DPHA_B01 Nanomedicines and special systems for administration and/or targeting of drugs/imaging agents [5] ⇔
   - DPHA_B02 Statistics and quality management in Pharmacy [5] ⇔
   - DPHA_B03 Applied pharmaceutical analysis and characterization of pharmaceutical formulations [5] ⇔

3. Molecular Pharmacology and Biotechnology
   - DPHA_C01 Molecular Targets of Drug Action [5] ⇔
   - DPHA_C02 Applied Biotechnology & Bioinformatics [5] ⇔
   - DPHA_C03 Precision Therapeutics [5] ⇔

C. Diploma Thesis (2nd & 3rd semesters)
   - DPHA_DIP1 Diploma Thesis (2nd semester) [15] ⇔
   - DPHA_DIP2 Diploma Thesis (3rd semester) [15] ⇔
a. Outline
The subject of this Postgraduate Program is the theoretical and practical education and training of young scientists in the design, production (in small and industrial scale) and evaluation (quality control, efficiency and safety) of cosmetic products, both theoretically and practically.

The aim of the program is:
- to cover research and training needs in the field of cosmetic products
- to develop research in this field and thereby promote new knowledge.

Graduates of the course will have the cognitive background to work inter alia at the cosmetics industry and at National and International regulatory bodies.

In addition, it is expected that the research link with the Greek production units will be strengthened, through the creation of well-qualified and specialized human resources and the transfer of know-how that will contribute to the promotion of the country's development needs.

The duration of the curriculum is 18 months divided in three (3) semesters (90 ECTS) and includes specialization courses and a thesis.

Graduates from Health Sciences and other related subject areas are admitted.

The number of admissions to the program per year is up to ten (10).

The tuition fee of the program is 1,800€ (600€ per semester).

b. Awarded Title
The Postgraduate Studies Program "Cosmetology - Preparation and Evaluation of Cosmetic Products" leads to the award of a Master of Science (MSc) Degree in "Cosmetology - Preparation and Evaluation of Cosmetic Products".
c. **Curriculum:** Courses Outlines & Teaching Assignments in [web links](#)  
[No] = ECTS

**Semester A**
- PHA-COS-11 Physiology of Human Skin-Dermatology [6]  
- PHA-COS-14 Microbiology [6]  

**Semester B**
- PHA-COS-23 Methods of Instrumental Analysis for Cosmetic Products [6]  
- PHA-COS-24 Industrial Production of Cosmetic Products [6]  
- PHA-COS-25 Practical Course on Preparation of Cosmetic Products [6]

**Semester C**

Inter-Departmental Postgraduate Program

"Life Sciences Informatics"

a. Outline
The Postgraduate Program Life Sciences Informatics (LSI) was founded in 2003.

It is currently co-organized by the Departments of Medicine, Computer Engineering and Informatics, Biology and Pharmacy, of the University of Patras.

We aim to provide high quality education in Life Sciences Informatics with prospects both in academia and in the field of applications. The graduates will be able to perform independent academic research in the field of Life Sciences Informatics and solve life sciences problems by developing novel informatics tools (databases, models, acquisition, data analysis and visualization software etc.). The program aims to meet the educational, research, health, technological and social needs and contribute to the development of this new hybrid scientific field.

The program enrols up to 30 graduate students per year, with a first degree in Life Sciences (Biology, Medicine, Pharmacy, Biotechnology, Chemistry etc) or Informatics and related fields (Physics, Mathematics, Engineering etc).

The studying period for the Master Program is 1.5 years (3 semesters, 90 ECTS) and includes specialization courses and a thesis. Teaching will be in Greek and English.

b. Awarded Title
The Interdepartmental Postgraduate Programme "Life Sciences Informatics" (LSI) leads to the award of a Master's Degree (MSc) in "Informatics for Life Sciences" and in the following Specializations:

1. Bioinformatics
2. Medical Informatics
c. Curriculum

1st semester

- LSI-102 Principles of Pathophysiology and Therapeutics [5]
- LSI-103 Introduction to Programming [6]
- LSI-106 Seminar Series I [2]

2nd Semester

- LSI-201 Artificial Intelligence, Machine Learning and applications [5]
- LSI-203 Introduction to Biomedical Database design, implementation and information retrieval [5]
- LSI-204 Seminar Series II [2]

Specialization [Elective Stream]

Bioinformatics

- LSI-205 Bioinformatics I [8]
- LSI-206 Genes and Genomes [5]

Medical Informatics

- LSI-207 Medical Informatics I [8]
- LSI-208 Health systems management and principles of medical practice [5]

3rd Semester

- LSI-301 Diploma Research [20]
- LSI-302 Big Data Retrieval and processing [4]
- LSI-303 Transferable Skills [2]

Specialization [Elective Stream]

Bioinformatics

- LSI-304 Bioinformatics II [4]

Medical Informatics

- LSI-305 Medical Informatics II [4]
Inter-Institutional Postgraduate Program

"Nanomedicines for Drug Delivery (NANOMED)"

a. Outline
The Nanomedicine for Drug Delivery (NANOMED) Master's degree is a 24-months curriculum offering a high quality and multidisciplinary education in the emerging field of Nanomedicine. The design of nanomedicines for drug delivery requires combining knowledge from Pharmacy, Biology, Chemistry, Medicine, Physics, and Engineering. Thus four European Universities have brought together their expertise in Nanomedicine to create a unique and comprehensive training programme: Paris Descartes University (coordinator, France), Patras University (Greece), Pavia University (Italy) and Angers University (France).

Moreover, renowned experts in the field of Nanomedicine coming from academia and industry are also involved as guest Lecturers or invited Professors. The curriculum provides both theoretical and practical knowledge for 3 semesters combined with a 6-months traineeship. Application requirements will include the completion of a Bachelor's degree in Pharmacy, or (under special provisions) in Medicine, Chemistry, Biology, Biotechnology, Chemical Engineering, Biochemistry, Material Sciences or other adequate discipline. English language proficiency is a main requirement.

The NANOMED EMJMD (Nanomedicine for Drug Delivery) aims at filing the gap between basic training in Drug Delivery currently provided by most Schools of Pharmacy at the Master's level, and advanced knowledge in Nanomedicine required for post-graduate young scientists. The NANOMED graduates will thus understand and be able to integrate the advances in Nanotechnology towards the development of Advanced Particulate Drug Delivery Systems.

Diploma
NANOMED EMJMD students receive Titles from all four participating Universities, together with a Document signed by all four Academic Coordinators. The possibility for a joint-Diploma is currently being investigated.

Tuition Fees
The tuition fees for participation in NANOMED EMJMD are 4500 €.

b. Links to Curriculum & to the Coordinating Department

- Curriculum
- Université Paris Descartes: NANOMED

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Phones & eMails
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## CONTACTS: Phones & Emails

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