KES COLLEGE'S RESPONSE TO EXTERNAL EVALUATION COMMITTEE'S REPORT IN REGARDS TO THE PROGRAMME OF STUDY

"Management of Pharmaceutical Scientific Detailing (4 years/240 ECTS/Bachelor)"

October 2020

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APPROPRIATE ACTIONS TAKEN BY KES COLLEGE IN RESPONSE TO THE FINDINGS AND THE SUGGESTED AREAS OF IMPROVEMENT AND RECOMMENDATIONS AS STATED IN THE EXTERNAL EVALUATION COMMITTEE REPORT

Introductory note

KES College is thankful to the Committee of External Evaluation (EEC), for the in-depth study of the Programme under evaluation - accreditation "Management of Pharmaceutical Scientific Detailing (4 years/240 ECTS/Bachelor)" and for submitting a detailed report.

The report identifies areas where improvements are needed, so that the Program meets the academic requirements of a Bachelor's Degree level program in the above field.

We have studied the EEC report very carefully and we have decided to make all the necessary steps to address the weaknesses identified by the EEC.

We do want to be able to successfully offer a Bachelor's Degree level program in the field of Scientific Pharmaceutical Detailing, which meets all the relevant academic criteria. We feel that this is the normal development for us, since KES College is the first and still unique Higher Education Institution in Cyprus which offers for more than 20 years, two and three year study programmes in the relevant field of Medical Representatives.

Consequently, we feel that we have a moral obligation to take all the necessary actions and move in the direction of improving the Programme according to the EEC recommendations, in order for it to be accredited, for the benefit of the society and the economy of the country.

As the EEC suggests (see penultimate paragraph on page 5 of the report, under the heading "Strengths"), *"the Program offers a very interesting amalgamation of two important scientific disciplines: Pharmacy and Management. Such a combination can have a significant potential to train the next generation of managers in the Pharmaceutical market and is a good fit both with the local economy and global markets."*

Towards this direction, we have taken all actions suggested to us by the EEC, which can be summarized as follows:

- We have improved the Program Structure and course parameters, in accordance with the recommendations of the EEC.
- New courses were added
- We have improved the composition of the teaching staff of the Program regarding the possession of academic qualifications of doctoral level with research activity, by recruiting new suitable academic staff engaged in high calibre research activities
- We have created new laboratories and we have equipped all laboratories with the necessary equipment so that it is possible to enrich specific courses with a laboratory part.
- We have created and recorded procedures and criteria that are in line with the Bachelor level of the Program, among them an upgraded Policy for the Recruitment and Evaluation of personnel teaching in Bachelor Degree Programmes

The actions we have taken are shown in detail in our responses to each paragraph of the EEC report below.

Please note that a new video of the College premices presenting among others the laboratories relevant to the Programme under evaluation, has been uploaded to the CYQAA evaluation folder as
\KES College\Virtual Tour of the College\KES COLLEGE VIRTUAL TOUR 14 OCT 2020.

1. Study programme and study programme's design and development

A. Extracts from the EEC Report.

Findings of the EEC

…the program defines the expected student workload in ECTS, although some aspects regarding the relative workload are not fully clear (e.g. in Semester 1, "Cell Biology" is assigned only 4 ECTS compared to the 7 ECTS allocated for "General English", and in Semester 2, "Elements of Biotechnology" 2 ECTS compared to 6 ECTS allocated to "Greek and English Medical Terminology"). The intended program in its proposed form, as a four-year Bachelor, requires further justification. The structure and content of the program include only compulsory modules and requires substantial revision.

Areas of improvement and recommendations, which need response by KES College

1. *A revision in five particular aspects of the program is advised, as analysed below:*
   a) *Redistribution of Management courses in the four years of study. KES College is advised to better prioritize introductory courses. For example, "Principles of Marketing", "Introduction to Management" and "Introduction to Economics" could be included in the first years of study. In its present form, the Program is too heavy on the Management side during the years 3 and 4.*
   b) *Redistribution of Pharmacy and Life Sciences courses in the four years of study. For example, basic courses such as "Biochemistry" should be earlier in the curriculum (currently in Year 3) and the course on "Elements of Biotechnology" should be later in the curriculum (currently in Year 1).*
   c) *Rationalization of allocation of ECTS units, which is not always balanced: e.g. "Public Relations" (7 ECTS) carries too many ECTS units compared to "Principles of Marketing" (4 ECTS), and the same applies to "General English" (7 ECTS) and "Greek and English Medical Terminology" (6 ECTS) when compared to ECTS units allocated to "Cell Biology" (4 ECTS) or "Elements of Biotechnology" (2 ECTS). Overall, courses that provide the overarching theoretical framing and the key concepts of a discipline invite more ECTS units.*
   d) *Elimination of overlaps among similar courses, e.g. "Public Relations", "Integrated Marketing Communication", "Professional Communications", "Interpersonal Communication", "Effective Organization and Sales Administration". The Panel proposes better integration of these courses to avoid repetition.*
   e) *Inclusion of new courses. Students are exposed to Accounting only once, with the "Principles of Accounting" course. However, they could benefit from the introduction of additional courses such as "Costing" and "International Business" (especially given the global character of the pharmaceutical industry in Cyprus and its export intensity). The Panel further recommends that some areas that are not fully developed in the present form of the Program should be covered by appropriate Courses, e.g. critical areas such as Pharmacovigilance and Clinical Trial design are not properly represented in the current Program of study.*

2. *The program of study currently includes only compulsory modules. Although this is acceptable, we believe that introduction of elective modules may add to the diversity of options for the student in the medium-term. This would also enhance the quality in the years to come.*

3. *A balanced approach between theory and practice. Currently, the proposed program of study could benefit from deeper theoretical focus across a vast array of taught modules.*

Furthermore, the students would greatly benefit from the inclusion of laboratories in some critical courses, e.g. "Cell Biology", "Elements of Biochemistry", "Physiology I", "Physiology II", "Pharmacology I", "Pharmacology II", "Elements of Pharmaceutical Technology" etc. Additionally, the Panel finds that the course on "Entrepreneurship" requires further theoretical strengthening.

4. *Program syllabi could include the content of lectures per week. Currently, the information is rather unstructured.*

B. Actions taken by KES College on Study programme and study programme's design and development:

1. Revision in five particular aspects of the program

a) Redistribution of Management courses in the four years of study:

Following the ECC's recommendation, there has been a redistribution of Management courses, as it can be seen in Annex "1", where the new structure of the Programme appears. The structure of the Programme as examined by the EEC appears in Annex "2".

"Basic Principles of Management", was moved from the fifth to the 2nd semester as "MGMT110 Basic Principles of Management" and "Introduction to Economics" was moved from the sixth to the 1st semester as "ECON110 Introduction to Economics". Following this redistribution, "MRKT100 Principles of Marketing" was moved from the second to the 1st semester. Where necessary, the syllabi were adjusted accordingly.

b) Redistribution of Pharmacy and Life Sciences courses in the four years of study:

As it can be seen in Annex "1," the course "Biochemistry" was moved from the fifth to the 2nd semester as "CHEM120 Elements of Biochemistry" and the course "Elements of Biotechnology" was moved from the second to the 5th semester as "PHRM310 Elements of Biotechnology".

c) Rationalization of allocation of ECTS units, which is not always balanced*:*

The allocation of ECTS units was re-examined, considering the workload for students of each course, taking into consideration the course content, the expected learning outcomes and the teaching time allocated for a course.

Changes have been made in the following syllabi, so that the allocated ECTS units, which indicates the workload for students, correspond to the content, the expected learning outcomes of each course and the teaching time allocated for a course.

All courses, which underwent an ECTS change, appear in the table below. Please note that courses 1., 2. and 3. have had a decrease of ECTS, while courses 4. and 5. had an increase of ECTS.

	Previous course code and title	Previous ECTS value	New course code and title	New ECTS value
1.	PURE103 Public Relations	7	PURE207 Public Relations	4
2.	ENGL103 General English	7	ENGL101 General English	4
3.	MEDI113 Greek and English Medical Terminology	6	MEDI114 Greek and English Medical Terminology	4
4.	BIOL102 Cell Biology	4	BIOL104 Cell Biology	6
5.	PHRM102 Elements of Biotechnology	2	PHRM310 Elements of Biotechnology	4

The new ECTS values as well as the allocated teaching time for each course appear in Annex "1", while the old values, as examined by the EEC, can be seen in Annex "2". The syllabi for all courses in their new form appear in Annex "3".

d) Elimination of overlaps among similar courses:

The content of the following five courses, that is "Public Relations", "Integrated Marketing Communication", "Professional Communications", "Interpersonal Communication" and "Effective Organization and Sales Administration" was carefully examined for overlaps and repetitions.

It has been decided to eliminate the course "Effective Organization and Sales Administration" and transfer part of its content to other courses, since a part of its content appears elsewhere. At the same time, the course "Interpersonal Communication" has been replaced by a course named "Development of Personal Skills" with some similar content but without overlaps with the rest of the above courses.

For the rest of the courses, changes have been made to eliminate some overlaps and improve the content of each of them.

The above five courses appear in the new programme structure in Annex "1" with new codes, as follows:

- PURE207 Public Relations, semester 4.
- MRKT403 Integrated Marketing Communication, semester 7.
- COMM307 Professional Communication, semester 6.
- COMM305 Development of Personal Skills, semester 5.

The new syllabi for these courses appear in Annex "3".

e) Inclusion of new courses:

Following the ECC's recommendation, two new courses were added in order to familiarize students more in the business area: The first is "ACCT310 Costing", which has been added in the fifth semester of the Programme and the second is "BUSS315

International Business", which has been added in the sixth semester of the Programme.

Regarding the development of the areas of Pharmacovigilance and Clinical Trial Design, the new course "PHRM310 Pharmacovigilance and Clinical Trials" was added in the fifth semester of the Programme.

The new courses appear in Annex "1" presenting the new, modified structure of the Programme, while their content appears in Annex "3" presenting the syllabi.

2. Elective courses:

Following the EEC recommendation, elective courses have been added in the seventh and eighth semesters of the Programme, as it appears in Annex "1".

In both cases, students can choose from the following four elective courses:

a) BIOL400 Bioinformatics
b) LAWS406 Introduction to Competition Law
c) MRKT404 Biotechnological Products Sale Consulting
d) PHRM400 Parapharmaceudical Products

The syllabi of the Elective Courses appear in Annex "3".

3. A balanced approach between theory and practice.

a) Deeper theoretical focus

The syllabi of all courses went through a careful re-examination for strengthening their theoretical basis. Changes towards this direction have been made to the following courses, while the syllabus of the course "Entrepreneurship" was rewritten.

- CHEM108 General and Inorganic Chemistry
- BIOL104 Cell Biology and Development
- MEDI125 Introduction to Microbiology
- MEDI114 Greek and English Medical Terminology
- PHRM210 Pharmacology I
- PHRM213 Elements of Pharmaceutical Technology
- PHRM310 Elements of Biotechnology
- PROJ325 Methodology of Research in Health Sciences
- LAWS307 Pharmacy Law
- PROJ413 Thesis I
- PROJ414 Thesis II
- ENTR304 Entrepreneurship

The new strengthened syllabi of the above courses appear in Annex "3".

b) Inclusion of laboratories in some critical courses

COURSES WITH LABORATORY EXCERSISES

Following the recommendations of the External Evaluation Committee, the syllabi of the following 9 courses were enriched and they include now laboratory exercises:

1. CHEM108 General and Inorganic Chemistry
2. BIOL104 Cell-Biology and Development
3. MEDI121 Physiology I
4. MEDI125 Introduction to Microbiology
5. CHEM120 Elements of Biochemistry
6. MEDI207 Physiology II
7. Pharmacology I, PHARM210
8. Pharmacology II, PHARM217
9. Elements of Pharmaceutical Technology, PHARM213

Additionally, laboratory exercises are included in the newly added elective course BIOL400 Bioinformatics.

SHORT DESCRIPTION OF THE LABORATORY EXCERSISES PER COURSE

What follows is just a short description of the laboratory exercises of courses with such exercises.

1. CHEM108 General and Inorganic Chemistry
   Laboratory exercises for this course will take place in the Biology and Chemistry Laboratories and they will include basic general and inorganic chemistry exercises. Students will be asked to complete experiments and analyse results of the exercises such as of pH determination, oxidation/reduction, electrical conductivity, solubility, spectroscopy, etc.
2. BIOL104 Cell-Biology and Development,
   In the exercise part of this course, students will deal with Cell Biology basic exercises, such as the DNA/RNA microscopy observation and discussion, DNA isolation and quantification, as well as basic bacterial experiments, such as growth observation/manipulations and concentration determination. The laboratory exercises of this course will be conducted in the Biology and Chemistry Laboratories as well as in the Microbiology Laboratory.
3. MEDI121 Physiology I
   The laboratory exercises in Physiology I course will emphasize in microscopy observation of the characteristics of several organ systems: the circulatory system, the digestive system, as well as the liver, the gallbladder and the pancreas. The observations will be discussed and the function and characteristics of the organs observed will be analysed. Furthermore, virtual presentations and

organ systems simulations will be included in the laboratory exercises, with several medical devices demonstrations as well. The laboratory exercises of this course will be conducted in the Physiology Laboratory.

4. MEDI125 Introduction to Microbiology
   During this course, students will get familiar in several microorganisms through microscopy observation and discussion of their characteristics. The laboratory exercises of this course will be conducted in the Microbiology Laboratory.
5. CHEM120 Elements of Biochemistry,
   The Biochemistry laboratory exercises will be mainly focused on the qualitative and quantitative analysis of the biomolecules, such as proteins, amino-acids, lipids (in blood and food samples) concentration determination, through standard quantification assays. Furthermore, the experiments will include the quality analysis of the characteristic reactions of amino acids, the study of casein isolation, the study of enzyme kinetic reactions and quality analysis of carbohydrates. Virtual analysis of DNA/RNA molecules will also be included in the laboratory exercises. All experiments will take place in the Biology and Chemistry Laboratory and the Physiology Laboratory as well.
6. MEDI207 Physiology II
   The laboratory exercises in Physiology I course will also emphasize in microscopy observation of the characteristics of the individual organ systems, such as the respiratory, urinary, reproductive, nervous systems, as well as the muscles and the organs of special sensation. In addition, interactive DVDs and organ systems simulations will be demonstrated to achieve deepen understanding of the characteristics and functions of the organ systems studied during this course. The laboratory exercises of this course will be conducted in the Physiology Laboratory.
7. PHARM210 Pharmacology I
   The laboratory exercises of the Pharmacology courses will take place mainly in the Biology and Chemistry Laboratory and the Physiology Laboratory, as well. Laboratory exercises will include assays for the study of blood coagulation mechanisms, through the evaluation of the prothrombin time and the partial thromboplastin time. Furthermore, the human platelets characteristics will be tested, via the isolation of human platelet membranes and the measurement of total proteins concentration.
8. PHARM217 Pharmacology II
   The laboratory exercises of the Pharmacology II course will take place mainly in the Biology and Chemistry Laboratory and the Microbiology Laboratory. Laboratory exercises will include assays for the diagnosis of diabetes, through a

simulation assay with artificially manipulated livestock blood and the determination of the glucose concentration as well as the evaluation of the susceptibility and resistance of microorganisms to antibiotics, through the crucial to understand assay of the antibiogram.

9. PHARM213 Elements of Pharmaceutical Technology
   The laboratory exercises of the Elements of Pharmaceutical Technology will take place in the Chemistry Laboratory, including the preparation of several formulations, like oral solutions and powders, suppositories, tablets, gels, syrups, mouthwashes, ocular suspensions, otic and nasal preparations, wound dressings and gel beads.
10. BIOL400 Bioinformatics
    Workshops for the course of Bioinformatics will be carried out in the Computer Laboratory using suitable software.

    Note: The syllabi of all courses for the new form of the Programme appear in Annex "3".

LABORATORIES AND FACILITIES

The Laboratories of the Study Program, corresponding to safe and controlled environments with all the necessary security measures, are the following:

The Biology and Chemistry Laboratory is equipped with all the necessary glass measuring instruments (various pipettes, extraction funnels, etc.), mechanical equipment (drying and sterilizing oven, capsule holders, stirring devices, vacuum pump etc.) as well as the most common digital instruments (magnetic stirrers, heating plates, digital pipettes, precision scales, pH meters, thermometers, electronic/analytical balances etc.). Furthermore, the laboratory equipment includes a visible spectrophotometer (350-1020nm), a desktop centrifuge (up to 4,000 rpms), an incubator for the cultivation of microorganisms under artificial conditions and a fridge (refrigerator).

The Microbiology Laboratory includes optical microscopes, with digital camera connected, for wide-screen demonstrations, as well as a distinct section where standard microbial practices are conducted, in aseptic conditions.

In the Physiology Lab, the included equipment is pH meters, conductivity meters, electronic balances, densitometers, various utensils, volumetric tubes, various tools and chemicals, necessary for experiments and demonstrations

The College Computer Labs (2) have 39 modern desktop computers running MS Windows 7, the MS Office 2010 application package, and other essential software in order to meet the needs of the Program. Furthermore, all lab computers are

networked and have a permanent broadband internet connection, allowing students to access various Internet programs that use Cloud Computing technology, such as applications for online communication, online storage, accounting and e-mail. In each computer lab, as well as in all classrooms, there are video projectors connected to the teacher's computer.

Students are trained with the aid of the aforementioned software as part of their courses.

Please note that a new video of the College premices presenting among others the laboratories relevant to the Programme under evaluation, has been uploaded to the CYQAA evaluation folder as \KES College\Virtual Tour of the College\KES COLLEGE VIRTUAL TOUR 14 OCT 2020.

4. Program syllabi could include the content of lectures per week.

It has always been the case that, the content of lectures per week for all courses of a semester for all programmes of study, is uploaded in the College learning platform, under a document called "diagramma mathimatos".

2. Student – centred learning and assessment

A. Extracts from the EEC Report.

Findings of the EEC

…The teaching approaches are overall appropriate (group learning, case studies, etc.), although the contribution of laboratory training is too limited for a program leading to a Bachelors' degree. The teaching methods and learning aids are constantly assessed through the program leader, quality assurance officer and tutors to reflect continuous improvement and diversity.

The student assessment process and methods are not chosen based on the course specification but are exactly the same across all the Program courses, involving the same four aspects in each course, i.e. class participation 10%, projects 20%, intermediate written examination 20% and final written exam 50%. By and large, all courses have the same assessment units which are factored similarly across all courses.

The information provided with regard to "Thesis I" and "Thesis II" is very limited especially considering the gravity of these courses in the ECTS allocation of units. Specifically, there is limited information on the thesis areas and potential topics, the task organization and supervision process, and the assessment criteria.

Areas of improvement and recommendations, which need response by KES College

1. *The Panel would invite KES College to revisit allocation of courses so as a better fit is achieved between staff expertise and course content (e.g. Pharmacoeconomics, Law). Moreover, it is advisable for research-active staff (as evidenced by their CVs) to undertake teaching of research related courses.*

2. *The Panel proposes to rethink student evaluation across all courses and clarify the content of assessment and marking criteria. Student assessment processes are currently largely under-developed with no clarity of examination procedures, first and second marking, content of assessment, grading criteria, student appeal procedures etc. Connection of assessment and learning objectives can further benefit the program.*

3. *More clear information should be provided on the potential topics, the task organization and supervision process, as well as the assessment criteria, of "Thesis I" and "Thesis II".*

4. *Research-led teaching and innovative teaching methods could warrant further thinking, discussion and implementation. In particular, there is evidence that currently some staff undertake research activities and published output, but this output is weak especially as to the quality of publications in academic journals. There is also not enough evidence of synergy between research and teaching. The Panel members find that there is a need for staff to engage more in high calibre research activity, which can have beneficial effects on teaching and the reputation of this Bachelor's program and KES College.*

B. Actions taken by KES College on Student – centred learning and assessment:

1. Allocation of courses so as a better fit is achieved between staff expertise and course content

   We have carefully examined the allocation of courses to the teaching staff, aiming at a better fit between staff qualification and expertise and course content. The following changes have been made, while the above referred courses of Pharmacoeconomics and Law, appear in the table with numbers 8. and 7. respectively

No	Course / Semester (see Annex 1)	Initial Teacher / Qualifications	Current Teacher / Qualifications
1.	**CHEM106 Organic Chemistry** First semester	**Theocharous Spyros** • MA Degree in Educational Leadership, European University of Cyprus, 2016 • Certificate of Training "Cosmetology: Method of Manufacture of Cosmetics from Natural Raw Materials and Medicinal Plants", National and Kapodistrian University of Athens • MSc Degree in Catalysis and Protection of the Environment. Hellenic Open University, 2013 • MBA, Mediterranean Institute of Management (MIM), 2006 • BSc Degree in Chemistry, University of Cyprus, 2005	**Dr Siafaka Panoraia** Education • Dr of Chemistry, Polymers Chemistry – Technology, Aristotle Univ. of Thessaloniki • MSc in Chemistry, Aristotle Univ. of Thessaloniki • BSc in Chemistry, Aristotle Univ. of Thessaloniki Work / Research Experience - November 2019-April 2020 Visiting post-doc researcher in Pharmaceutical technology Department, University of Health Sciences, Istanbul, Turkey - March 2016 -November 2019 Visiting post-doc researcher in Pharmaceutical technology Department, Istanbul Medipol University, Istanbul, Turkey - December 2013-June 2015 Researcher Participation in the research program financed by NSRF 2007-2013 (Project Code: MOL-TREAT):"Integrated treatment of high concentration waste molasses for recovery of high added value and reducing pollution loads". - April 2014-April 2015 Researcher Participation in the research program financed by NSRF 2007-2013 (Project Code: 88532):"Development of new biocomposites low molecular weight using lignocellulosic biomass and nanotechnology". - December 2012-December 2013 Researcher Participation in the research program financed by NSRF 2007-2013 (Project Code: 84941): "Development of Innovative nanocarriers of ixabepilone and study of their applicability in the Treatment of Breast Cancer". - September 2012-December 2012 Researcher Participation in the research program financed by NSRF 2007-2013: "Nanocomposite polymeric materials of high performance and versatile".

No	Course / Semester (see Annex 1)	Initial Teacher / Qualifications	Current Teacher / Qualifications
2.	**CHEM201 Chemistry of Pharmaceutical and Natural Products** Third semester	**Theocharous Spyros** Please see the teacher's qualification in No 1 above	**Dr Siafaka Panoraia** Please see the teacher's qualification in No 1 above
3.	**MRKT214 Pharmaceutical Markerting** Fourth semester	**Kyriakidou Stella** • Master of Commerce in Marketing, Strathclyde University, Scotland, UK, 1987 • BA in Business Studies, Philips College, Nicosia, Cyprus, 1985	**Savvidou Katerina** - Master of Pharmacy, 2007-2011 University of Brighton, School of Pharmacy and Biomolecular Sciences Brighton, UK , 2011 - Master in Business Administration, Mediterranean Institute of Management, 2019
4.	**MEDI 2014 Medical Scientific Publications** Fourth semester	**Demosthebous Savvas M.D.** • Doctor of Medicine (MD), Comenius University of Bratislava, Slovakia, 2012 • Sport Medicine Doctor Diploma, Aristotle University of Thessaloniki, 2016	**Dr Siafaka Panoraia** Please see the teacher's qualification in No 1 above
5.	**MEDI304 Introduction to Public Health – GeSy** Fifth semester	**Demosthebous Savvas M.D.** Please see the teacher's qualification in No 4 above	**Xenou Aikaterini** • Master of Business Administration (MBA) Open University of Cyprus, 2016 • MSc, Health Management, Frederick University, 2010 • BSc, Public Health, ATEI Athens, 2008
6.	**PROJ325 Methodology of Research in Health Sciences** Sixth semester	**Theocharous Spyros** Please see the teacher's qualification in No 1 above	**Dr Siafaka Panoraia** Please see the teacher's qualification in No 1 above
7.	**LAWS307 Pharmacy Law** Sixth semester	**Filippou Elli** • BSc in Pharmacy, Veterinary and Pharmaceutical Sciences Brno, 2014 • Master's Degree's Degree in Pharmacy, Veterinary and Pharmaceutical Sciences Brno, 2014	**Charalambous Agis** • LLM Medical Law, Grade 2.1 (upper), University of Kent, 2017 • LLB Law (Hons), Grade 2.1 (upper), Birmingham City University, 2016

No	Course / Semester (see Annex 1)	Initial Teacher / Qualifications	Current Teacher / Qualifications
8.	**ECON 402 Pharmacoeconomics** Seventh semester	**Filippou Elli** Please see the teacher's qualification in No 7 above	**Savvidou Katerina** - Master of Pharmacy, 2007-2011 University of Brighton, School of Pharmacy and Biomolecular Sciences Brighton, UK , 2011 - Master in Business Administration, Mediterranean Institute of Management, 2019
9.	**PROJ413 Thesis I** Seventh semester	**Theocharous Spyros** Please see the teacher's qualification in No 1 above	The Academic Staff participating in Thesis supervision will be PhD holders in one of the scientific fields from which students will choose their Thesis topic. Thesis supervisors should have experience in dissertation supervision
10.	**PROJ414 Thesis II** Eighth semester	**Theocharous Spyros** Please see the teacher's qualification in No 1 above	The Academic Staff participating in Thesis supervision will be PhD holders in one of the scientific fields from which students will choose their Thesis topic. Thesis supervisors should have experience in dissertation supervision

2. Student evaluation across courses and clarification of the content of assessment and marking criteria

   Evidently, the EEC's finding that *" **...the student assessment process and methods are not chosen based on the course specification**…but are exactly the same across all the Program courses..., by and large, all courses have the same assessment units which are factored similarly across all courses*" is a point that we kindly disagree.
   In three cases, that is for Practical Training and for the two Thesis courses, the assessment methods differ from the above because they contain to a greater degree learning outcomes of different types and this proves that the course specifications were taken into account. The majority of the courses are theoretical in nature and we have so decided to follow the same assessment method, after making sure that in all cases all course learning outcomes could be assessed.

   By having the same assessment method for all theoretical courses, we just intended to assure the quality of the students' assessment, while at the same time ensuring that all learning outcomes of a course can be indeed assessed by this method.

   We know that some higher education institutions devolve all responsibility for grading decisions to the respective teachers. We do not devolve all responsibility for grading decisions to the College teachers because this is not in line with our policy. As we were able to find out from literature, a relatively small proportion of higher education institutions follows a policy of devolving all responsibility for grading decisions to higher education teachers.

We have considered your recommendation though on courses assessment and we have very carefully examined all courses assessment method, especially after revising certain modules following the EEC report, which resulted changes in a considerable number of modules. Several courses have now a laboratory/practical part, which has to be assessed as well.

Therefore, in cooperation with the teachers of each course, we have carefully re-examined the assessment method for each one of the courses in their new form and we have made changes. The assessment method in all cases takes into consideration the type of the expected learning outcomes and in each case, the method is suitable to assess each one of the learning outcomes of the course.

The grades in a course are based on the principles of criteria-based assessment. The desired learning outcomes in a course are clearly specified and students are informed about them progressively in each session with their teachers. The grades represent the degree to which students have achieved the course learning outcomes.
The syllabi of all courses with their assessment methods appear in Annex "3."

3. Potential topics, task organization, supervision process, and the assessment criteria, of "Thesis I" and "Thesis II"

POTENTIAL TOPICS FOR THE THESIS FINAL COURSE:
There has been major changes regarding the Thesis I and Thesis II courses. Their syllabi appear under PROJ413 Thesis I and PROJ414 Thesis II in Annex "3".

One of the major change is that **College teachers who teach the Thesis I and Thesis II courses should be PhD holders** covering at least one of the five following Thesis Scientific areas:

1. Management - Pharmaceutical Marketing - Entrepreneurship
2. Pharmacology and Therapeutics
3. Pharmaceutical Technology
4. Medical / Pharmaceutical Achievements
5. Pharmaceutical Chemistry

SUPERVISION PROCESS

- Choice of the type of Dissertation (Thesis I)
  Students will have to choose between two types of dissertation:
  A. The first type is based on already available data sets or metadata analysis, statistical analysis and literature review.
  B. The second type is based on first hand data collection using questionnaires or lab work, statistical analysis, and literature review.

- Supervisors for Thesis Scientific Areas (Thesis I)
  At least one member from the supervising Academic Staff pool will be assigned to each Scientific Area according to their expertise
- Selection of Thesis Topic/ Formation of Thesis Evaluation Committee (Thesis I)
  Each student applies for a topic by filling in an appropriate form. The corresponding Thesis Supervisor in collaboration with the Program's Coordinator will evaluate the application. After the acceptance of the application (by the 3rd week of the 7th semester), two additional members out of the supervising Academic Staff pool will be appointed to form a Three-Member Thesis Eval. Committee
- Students meetings with their Supervisors (Thesis II).
  Interpersonal meetings of each student with his/her Thesis Supervisor, at regular time intervals, either in pre-arranged meetings at KES college or online, in order to provide guidance, organize the implementation of the dissertation and receive feedback on the progress of the work (Thesis II).
- Bibliographical References list
  Bibliographical Reference list should contain at least 50% titles from 2012-present and should be based on prestigious scientific journals and books. References should be cited at all points of the Thesis where the source has been used and should be based on the rules established by the American Psychological Association (APA Style)

- Submission of the Thesis Manuscript (Thesis II).
  Students are obliged to submit the final Thesis manuscript 20 days prior to the set date of the presentation to the members of the Evaluation Committees, after having received the consent of the Thesis supervisors
- Final Thesis Submission
  The final Thesis is submitted in two book bound copies and in two copies in electronic format (pdf), one of which for the Central Library of the College and the other for the Program of Management Of Pharmaceutical Scientific Detailing
- Oral Presentation
  The oral presentation of the dissertation is organized after each examination period and the student does not have the right to graduate if he/she does not complete the Thesis process. The presentation is made in PowerPoint and should not exceed 20 minutes, with 15 minutes as the minimum duration time, while the slides that are presented should be configured for the presentation using bullet points and not with excerpts from the pages of the text. The student should be able to present the work in his / her own words. After the presentation, there is a

discussion based on the questions of the Three-Member Thesis Evaluation Committee.

ASSESSMENT CRITERIA

Thesis assessment takes place in two phases: Phase I corresponds to the end of the Thesis I module and Phase II corresponds to the end of the Thesis II module.

- Thesis I assessment.
  Students have to submit a 3-4-page progress report, which will include the research questions to be addressed, the methodology to be applied plus the basic outline of the Introduction. The report is evaluated by his/her evaluation Committee and is graded with PASS or FAIL. If the student obtains a PASS then he/she can continue to Phase II (Thesis II), otherwise will need to resubmit the report within one month. If he/she fails again, then he/she has to repeat the course. The final approval of the Three-Member Thesis Evaluation Committee requires the consent of at least two members.
- Thesis II assessment
  The final grade of the evaluation for Thesis II, is based on A) Final Thesis Manuscript (85% of the grade) and on B) Final Oral Presentation in front of the Three-Member Thesis Evaluation Committee (15% of the grade)
  The Final Oral Presentation takes place exclusively within a time set by the Program Coordinator (before the Graduation of the academic year).

  Final Grade = 0,85 x (Final Thesis Manuscript Grade) + 0,15 x (Final Oral Presentation Grade).
- The Thesis II will be assessed using the scale 1-100, with 60/100 as the passing mark.
- In case of rejection of the dissertation, a new evaluation date is set at least three (3) months after the first evaluation. In this case, the Three-Member Thesis Evaluation Committee delivers a detailed report to the student with the changes or improvements that need to be made in the Thesis.

Grades for the Final Thesis Manuscript and for the Final Oral Presentation

A) Final Thesis Manuscript Grade:

The grade for the Final Thesis Manuscript is based 70% the rank of Supervisor, and 30% the Members of the Thesis Evaluation Committee, using the following criteria:

- Work Plan and Structure 10%
- Literature Review 20%
- Methodology, Data Collection & Analysis 30%
- Findings / Results, Discussion and Conclusions 25%

B) Final Oral Presentation Grade: Will be based on Oral Presentation (e.g. in power point format). Student is asked to answer questions from the Three-Member Thesis Evaluation Committee.

4. Research-led teaching and synergy between research and teaching: Need for staff to engage more in high calibre research activity

The issue of taking suitable measures and providing incentives to teaching staff for greater engagement in quality research activities will be discussed in the next chapter "3. Teaching Staff".

The first and immediate measure towards the further engagement of teaching personnel in quality research activities for the better synergy between research and teaching is the recruitment of teaching personnel with the suitable qualification and experience and so KES College did.

There are three **new PhD degrees** in the list of the teaching personnel, while a forth PhD degree is expected to be awarded to a member of the teaching staff next month (to Ms Miliotou Androulla, PhD candidate).

Two PhD degrees belong to members of the new teaching personnel, that is to Dr Oulas Anastasios and to Dr. Siafaka Panoraia, while the third belongs to an existing member (Dr Sophocleous Xanthi), who has been awarded her PhD degree recently. Among the new staff is Ms Miliotou Androulla, PhD candidate, who is expecting the award of her PhD in Thessaloniki -next month.

1. Dr. Oulas Anastasios, PhD in Molecular Biology and Biomedicine University of Crete, 2009, MSc in Computational Genetics and Bioinformatics, 2002, Imperial College of Science, Technology and Medicine, UK, BSc in Molecular Genetics in Biotechnology, University of Sussex, 2001, UK
2. Dr. Siafaka Panoraia, PhD in Chemistry, Polymers Chemistry – Technology, Aristotle Univ. of Thessaloniki 2016, MSc in Chemistry, Aristotle Univ. of Thessaloniki 2012, BSc in Chemistry, Aristotle Univ. of Thessaloniki, 2010.
3. Miliotou Androulla, cPhD in Molecular Pharmacology at School of Pharmacy, Aristotle University of Thessaloniki (the award of her PhD is expected to take place next month by the Aristotle University of Thessaloniki), MSc Pharmaceutical Biotechnology and Molecular Diagnosis, at School of Pharmacy, Aristotle University of Thessaloniki, 2016.
4. Dr Sophocleous Xanthi, PhD in Health and Nutrition, University of Nicosia, 2020, MBA Maastricht School of Management, 2004, BSc Nutrition and Dietetics, Charocopio University of Athens, 1999.

   Dr. Sophocleous Xanthi, holds a PhD in Dietetics/Nutrition, focused in the associations between Cypriot's children television food advertising exposure and their eating behavior. Dr. Sophocleous conducted a study as an observational and diagnostic survey, with the use of questionnaires and eating behavior tests in 1088 Cypriot

children, under the supervision of Dr Eleni Andreou, University of Nicosia. Her research interests focus on the understanding of the current situation, regarding the perceptions, eating habits, television habits, food knowledge (on children of age 6-12), towards television food advertising, children's eating habits and preferences in Cyprus. Dr. Sophocleous is ready to publish two research papers regarding her PhD Thesis entitled:

Sofocleous Xanthi, Antonis Zampellas, Felekkis Kyriakos, *Andreou Eleni. *Content Analysis of Food and Beverage Products in Television Advertisements Seen during Family Zone in Cyprus and its reflection to the Food Pyramid prototype*. Nutrients, 2020

Sofocleous Xanthi, Antonis Zampellas, Felekkis Kyriakos, *Andreou Eleni. *Responses of parents and children (age 6-12) towards television food advertising, children's eating behaviour, television habits and advertised product preferences in Cyprus. Journal of human nutrition and dietetics, 2020*

Information about the research of **Dr. Oulas Anastasios, Dr. Siafaka Panoraia** and **Miliotou Androulla cPhD.**

Dr. Oulas is a Fellow Researcher in the Bioinformatics Group, of The Cyprus Institute of Neurology and Genetics (CING). He has also an extensive scholar record of 57 publications in highly prestigious journals and an h-index=14. His resume consists of a huge experience as a researcher in many academic institutions, like the Foundation for Research and Technology Hellas, University of Crete and the Hellenic Centre for Marine Research. Among his research interests are state-of-art technologies, like Next Generation Sequencing (NGS) data analysis (genomics, metagenomics, RNA-Seq) and he is also experienced in web lab techniques. He is an expert in Bioinformatics, a course that he was assigned to teach

Dr. Siafaka has an extended scholar record, with h-index=18 and 37 publications in highly prestigious, international, peer-reviewed journals. In addition, more than 10 papers are currently under review. She is also in an ongoing collaboration with Faculty of Pharmacy, Department of Pharmaceutical Technology of Istanbul Medipol University and University of Health Sciences, in Istanbul and has an extensive research experience in participating in in 4 research projects. She also obtained a Research Excellence Scholarship (2014) as best PhD candidate from the Research Committee of Aristotle University of Thessaloniki. She has also numerous international collaborations with Researchers of various disciplines. In addition, she contributed in 50 presentations (oral and poster) in national and International Conferences. She is also a reviewer in 30 journals and evaluator in Funding Programs. The last decade she has been working as Science Tutor for students of all ages.

Ms. Miliotou cPhD, who is the Program's Coordinator, is a junior researcher. Ms. Miliotou, although in an earlier academic level, has already published, among others, an impact study of ~160 citations, in a state-of-art technology, and also published a book chapter about this technology, which is one of her main scientific interests. Furthermore,

Ms. Miliotou is an inventor, as a member of the research team of Dr. Papadopoulou, at the School of Pharmacy, Aristotle University of Thessaloniki, and their patent-pending application (which includes the results of her work during her PhD Thesis) was decided to be extended from national to international level, supported by the Aristotle University of Thessaloniki and University of Thessaly, in November 2020. She has also participated in National and International Conferences, with oral and poster presentations. She is also experienced in teaching, as she previously undertook several courses at colleges in Greece and she contributed in postgraduate and undergraduate tutoring, as well as in the organization/execution of laboratory courses of Pharmacology, in the undergraduate program, at the School of Pharmacy, at the Aristotle University of Thessaloniki.

The new Research Activities and synergy with teaching of both the new members of the Teaching Staff, as well as of existing members who submitted their work after the submission of the application for accreditation of the Programme in August 2018, appear in Annex "4"

The short CVs, as well as the detailed biographical notes of the new members of the teaching personnel appear in Annex "5".

Changes of the teaching staff

At this point, we inform the EEC that there have been changes in the composition of the teaching staff: First, the coordinator of the Programme is now **Ms Miliotou Androulla cPhD**, who is a full time member of the teaching personnel, while the previous coordinator continuous to teach in the Programme.

All new PhD members and Ms Miliotou Androulla, the new Coordinator of the Programme who is expected to receive her PhD next month, have graduated from distinguished universities and they are all involved in high calibre research, relevant to the Programme of study.

There are altogether 12 new members of the teaching staff. Their short CVs, as well as their detailed biographical notes appear in Annex "5".

The list of the teaching personnel in its updated form, together with courses taught and periods per week appears in Annex "6" Please note that the 12 new members appear with the text **"new member"** next to their names.

The list of the teaching personnel in the form in which the EEC has examined it together with courses taught and periods per week appears in Annex "7". Please note that there are 7 teachers who do not teach in the Programme anymore. These teachers appear with the text "**doesn't teach**" next to their names.

The updated list for the Programme teaching staff with their qualifications, Rank and whether Full or Part time employment appears in Annex "8".

3. Teaching staff

A. Extracts from the EEC Report.

Findings of the EEC

The number of the members of the teaching staff is sufficient to support the implementation of the program. However, the qualifications of some teaching staff were not fully aligned with the level and content of courses within a study program leading to a Bachelor's degree. Furthermore, it is unclear whether the teaching staff status (full time versus part time staff) and overall workload would allow for adequate delivery and sustainability of a Bachelor's degree program.

Areas of improvement and recommendations, which need response by KES College

1. *Recruitment in KES College could emphasize further the quality of staff in terms of degrees earned, quality of awarding institutions, academic profile, research activity and teaching experience. Further research-active staff could be recruited, and it would be beneficial to revisit the full time versus part-time staff ratio. This will positively reflect on the quality and sustainability of the proposed Bachelor's program.*
2. *Teaching staff's scholarly and research output and quality of journal articles need to significantly improve. To this end, time and provision of resources and incentives for research to teaching staff would need to be enhanced (and have to be included clearly in the work allocation model). This would enhance the research-led teaching dimension, which is essential for a Bachelor's level program, and the research profile of the whole Institution.*

B. Actions taken by KES College on Teaching Staff:

1. Further recruitment of research-active staff, full time versus part-time staff ratio
   a) Further recruitment of research-active staff

Updated Policy for the Recruitment and Evauation of personnel teaching in Bachelor Degree Level Programmes

When there are vacancies for teaching posts for Bachelor's Degree Programmes at KES College, these vacancies are publicly published. One of the requirements on the candidates is the engagement in research activities and the possession of research work. Furthermore, a new teaching staff evaluation system has been established in the academic year 2019 – 2020 and it is being used since then. One of the evaluation criteria is the degree of engagement in research activities during the last three years (e.g. publications in scientific journals and scientific conference announcements). From this year on, there is demand on all members of the teaching personnel who teach in Bachelor's Degree Programmes, that they have a satisfactory evaluation on this criterion

Following the EEC's recommendation, KES College has recruited quality staff in terms of their degrees, the quality of the universities from which they have graduated and their research activity.

As described above, there are 12 new members of the teaching personnel. Among them, there are 2 PhD holders and 3 PhD candidates, as follows:

1. Dr. Oulas Anastasios, PhD Molecular Biology and Biomedicine University of Crete, 2009 ,MSc in Computational Genetics and Bioinformatics, 2002, Imperial College of Science, Technology and Medicine, UK, BSc in Molecular Genetics in Biotechnology, University of Sussex, 2001, UK
2. Dr. Siafaka Panoraia, PhD of Chemistry, Polymers Chemistry – Technology, Aristotle Univ. of Thessaloniki 2016, MSc in Chemistry, Aristotle Univ. of Thessaloniki 2012, BSc in Chemistry, Aristotle Univ. of Thessaloniki, 2010.
3. Miliotou Androulla, cPhD Molecular Pharmacology at School of Pharmacy, Aristotle University of Thessaloniki (the award of her PhD is expected to take place next month by the Aristotle University of Thessaloniki), MSc Pharmaceutical Biotechnology and Molecular Diagnosis, at School of Pharmacy, Aristotle University of Thessaloniki, 2016.
4. Demetriou Andrea, cPhD Math Education, Frederick University, PGCE Maths, University Manchester, 2011, BSC Hons Maths, University Manchester, 2010
5. Panagiotou Elena, cPhD Business Administration, MBA Economics, MIM, 2015, BA in Economics, University of Cyprus 2013

Their short CVs as well as their detailed biographical notes appear in Annex “5”.
A list of research activities appears in Annex “4”.

b) Full time versus part-time staff ratio

With reference to Annex “8”, (updated list with qualifications, rank and employment status for the teaching personnel), there are 11 full time and 11 part time members of the teaching personnel working in the Programme.

As it derives from Annex “6”, the total number of teaching hours for the full time teachers is 80 per week, compared to 42 for the part timers, that is almost almost 66 % of the teaching time is being taught by full time teachers.

Some of the Programme courses are very specific and there is need for specialized personnel to teach them. College teachers teaching for example Pharmacy Law, Pharmacoeconomics Bioinformatics etc., cannot be employed at KES College on a full time basis since there are not many hours of their specialization for them to teach.

2. Need for significant improvement of the teaching staff’s scholarly and research output and quality of journal articles - provision of resources and incentives for research to teaching staff

As we have stated in the previous chapter “2.Student – centred learning and assessment”, the first step to improve research-led teaching and synergy between research and teaching and more engagement of staff in high calibre research activity, is the recruitment of new suitable staff.

Furthermore, towards the improvement of scholarly and resource output and quality of journal articles, there should be suitable incentives and a culture for the continuous promotion of quality research in the College.

During the virtual visit of our College on the 13th of July 2020, the Research Coordinatior of KES College Dr Dimitrios Sarris presented to EEC Research at KES College and the operation of the KES Research Centre, which is an independed, officially registered non-profit organization with special focus on applied research. KES College and the KES Research Centre closely cooperate in research projects either internally or externally funded.

Incentives for participation in research activities for KES College teaching staff were presented in the above presentation. These incentives appear below under “Internal research funding policy”.

We want to emphasize that KES College is already involved in research and has a declared research policy, which also appears in Annex “9”.

KES College Research Policy

According to this policy, KES College is committed to taking all necessary measures to ensure that research is promoted within the College and that teaching and learning should be enlightened by research activities.

For achieving these goals, the College primarily collaborates, but not only, with KES RESEARCH CENTRE, which is a non-profit research organization registered at the Cyprus Research Promotion Foundation (UNIC: 1217026583) and at the Department of Registrar of Companies and Official Receiver as a private non-profit limited liability company (HE395935) based in Nicosia (Cyprus). It operates either autonomously or in co-operation with other entities, such as companies, research institutes, external researchers and academics.

Through this collaboration, KES COLLEGE shares the objectives of KES RESEARCH CENTRE, which are mainly the following:

- The independent conduct of mainly applied research and the wide dissemination of research results through teaching, publication or transfer of knowledge.
- The participation of Cypriot researchers in international research activities and the cooperation of Cypriot researchers with researchers from other countries.
- The preparation and submission of research proposals for funding by Cypriot, European, International or other agencies and institutions.
- The dissemination of research results to the public.

Under the above framework, research is conducted at KES COLLEGE in two ways:

A) Through the individual research work of each academic staff and

B) Through calls for internal research programs funded by the College (or jointly by other interested bodies) offering incentives to its teaching staff for participation. The College strives to stimulate research work for the academic development of its teaching staff, having in mind that teaching can also benefit from research work. In addition, it seeks to benefit the students of its programs by offering them new opportunities and experiences to participate in research projects and encourages that the output of such activities is used in their dissertations thesis.

Regulations and procedures of research work

Once a year KES COLLEGE announces a call for internal research projects. The Research Officer of the College has the responsibility of issuing the call.

The Research Officer's qualifications require holding a PhD degree and having significant research experience. The Research Officer is also responsible for setting up the evaluation committee for the submitted research proposals.

The Evaluation Committee submits its recommendations to the Administration Board of the College for the final decision on the funding of the submitted research proposals. For positively evaluated internal research projects, the Research Teams submit research progress reports, on a 3 or 6 month basis to the Research Officer, which are forwarded to the Research Committee and the Administration Board of the College for final approval (see point 6 Internal research funding policy). The implementation of the research activities are carried out by the Research Teams in cooperation with the relevant Coordinators of each Degree Program in collaboration, when required, with KES RESEARCH CENTER or other partners.

The Research Officer is tasked with supporting the dissemination of the Colleges' research activity. Apart from the usual channels for disseminating research findings (scientific conference announcements, journals, publications, etc.), publicity can be made by the media available at KES College (Website, the College's Journal, Social Media etc.) or through special dissemination events.

The Research Officer of KES College also monitors the opening of research calls by both Public and Private Foundations in Cyprus and other bodies and has the overall responsibility for informing faculty members of the opportunities given for participating in external research programs.

Internal research funding policy

KES College, once a year, releases a call open to all members of its academic staff for the submission of research proposals to be evaluated for internal funding. Proposals

should aim at developing research projects and forming Research Teams within the College, in collaboration if required with external partners, to generate new knowledge in the areas of society, economics and the environment where the Institution has developed its 22 Programs of Study.

Proposals are evaluated by a committee composed of members of the Foundation with research experience with the involvement if required of external evaluators. The evaluation committee submits its recommendations to the Colleges' Administration Board for the final decision on which research proposals will be funded.

The Research Teams of projects that are selected are given financial incentives by allocating €1,000 to complete their Final Project Report and publish their Results, in addition to financing the operational costs of conducting the research (consumables, cost of outsourcing analyses, travels etc.). The Research Officer of the College is responsible for the evaluation of the Final Project Report in collaboration with the projects evaluation committee.

To each Research Team Member an additional economic support is provided for:

- Participating with a Scientific Announcement (oral or poster) at an International Conference – up to €1000
- Participating with a Scientific Announcement (oral or poster) at a National Conference – up to €700
- Attending an International Conference- up to €500
- Attending a National Conference- up to €300

A precondition for receiving the above funding is to register at the conference with the affiliation of KES College.

Research Team members that have submitted their Final Report are also given priority in their applications for participating in Erasmus + for one academic year to promote:

- scientific training abroad
- scientific networking / collaboration
- the invitation of foreign scientists to Cyprus for scientific networking-cooperation

4. Student admission, progression, recognition and certification

A. Extracts from the EEC Report.

Findings of the EEC

The submitted and presented material provided some but not sufficient or clear information on key admission criteria. Additionally, the documents provide evidence that student transfers are allowed between programs offered by the Institution and describe the general process. However, the Panel finds that more clear information is required given that, unlike most other programs of the Institution that lead to Diplomas and Higher Diplomas, the present program leads to a Bachelor's degree. The conditions, and process, for student transfers from other Private Schools of Tertiary Education (I.S.T.E.) or other universities during the academic year or in the beginning of the 2nd year is described with sufficient detail and clarity.

Areas of improvement and recommendations, which need response by KES College

Further details should be provided on the admission criteria for both local and foreign students (desired grades or levels of performance; Greek language qualifications). Additionally, the transfer process, and academic criteria, from lower level programs (Diploma or Higher Diploma) to this Bachelor's-level program should be established and justified.

B. Actions taken by KES College on Student admission, progression, recognition and certification

The complexity of the content of the Bachelor's level Programme in "Management of Pharmaceutical Scientific Detailing" evidently greater compared to other vocational programmes offered by KES College.

Due to this fact, we have decided for this Programme of study, to raise the minimum entry grade for upper-secondary school graduates to join a KES College Programme, from 50 % to 70 %.

This means that graduates from a Cyprus Lyceum should have an average grade equal or greater to 14/20.

The language of instruction of the Programme is Greek. Having graduated from an Upper Secondary school where the language of instruction is Greek is adequate evidence of Greek language knowledge.

Other non-Greek speaking candidates, should prove that they master the Greek language at a level at least equal to C1 of the Common European Framework of Reference for Languages (CEFR)

The transfer process for students applying to enter the Programme either from other institutions or from our College, is run by the Academic Committee, which examines for each course submitted for transfer its content, ECTS and level and decides accordingly.

Most of the College Programmes have many vocational courses, meaning that there is considerable number of practical skills in them. Considering that the majority of the present Programme courses are not of vocational nature, meaning that there are overall

less practical skills and more of knowledge and autonomy-responsibility learning outcomes, we have decided the following, regarding transfers:

The Academic Committee can allow the transfer of maximum 60 ECTS for graduates of two-year Diploma programmes and maximum 90 ECTS for graduates of three-year higher Diploma programmes who apply for admission to this Bachelor's-level program, after a careful examination of the courses specification and the Programme requirements.

5. Learning resources and student support

A. Extracts from the EEC Report.

Findings of the EEC

Resources and bibliography (recommended textbooks) have been provided in all course syllabi. The course material will be placed on the e-Learning platform (e.g. Moodle, e-library) and be easily accessible to the students.

The teaching classrooms and other facilities for the delivery of the courses are of good standard while there is on site support for students (Student Welfare Centre). Student support was also discussed with relevant teaching and administrative staff. Moreover, interviewed students expressed their satisfaction with the overall guidance provided to them from teaching and administrative staff, and they also noted that (formal and informal) personal support is provided for problem resolution. It became apparent from student interviews that the preparation and study of different courses primarily relies on teaching staff notes and PowerPoint material, and less on the study of textbooks and other academic resources including scientific journals.

Areas of improvement and recommendations, which need response by KES College

1. *The Panel finds that, given the academic level of the proposed Bachelor's study program, the quality and depth of learning resources in the course syllabi warrants substantial improvement. For instance, prolific academic articles and key academic journals in all disciplinary areas should be included in the study material.*
2. *Further emphasis should be placed on the quality of suggested teaching material, as well as on linking student preparation and study to high quality textbooks and academic resources (rather than teaching staff notes and/or lecture slides).*

B. Actions taken by KES College on Student admission, progression, recognition and certification

Indeed, the courses syllabi are constituted by selected bibliography, with numerous sources of textbooks and teaching staff notes. The majority of the bibliography provided is necessary for the completion of each course and power point material serves as a supplementary or additional help and support of the main bibliography. The lectures for each course are structured in slides only for practical reasons and, during courses, teachers encourage students to refer to the appropriate point in the defined course bibliography.

At this point, we would like to note that the pool of students interviewed during evaluation procedure, were students attending the 2-year course of Medical Representatives, since, the Study Program "Management of Pharmaceutical Scientific Detailing" is not active yet and no students were recruited. For this reason, we believe that feedback from students who are committed to the completion of a 4-year program would be much more representative, as the Program is more demanding.

However, after the evaluation committee recommendations, many courses bibliographies have been updated to include state-of-the-art handbooks and international, modern, scientific and established literature, especially for courses that underwent changes in content. Furthermore, our college proceeded to demanding a list, organized by each member of the teaching staff, for their corresponding courses, including articles, reports

and case studies, derived from peer-reviewed journals, that students will have to read as part of the course requirements prior to final exams. These academic resources will be discussed and analysed as a part of the course content, for deepen understanding. The list is characterized by flexibility as the expertise of each member of the teaching staff is strongly related to the content of the list, always in respect to each course. The addition of the list will update the sources, available for studying, and combine the textbooks provided by the college with novel scientific knowledge, derived from academic resources.

ANNEX "1"

NEW COURSE STRUCTURE: DISTRIBUTION OF COURSES PER SEMESTER

Year 1

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 1								
1.	Compulsory	Human Anatomy	MEDI102	3	55'	14	42	6
2.	Compulsory	General and Inorganic Chemistry	CHEM108	3	55'	14	42	6
3.	Compulsory	Cell - Biology and Development	BIOL104	3	55'	14	42	6
4.	Compulsory	Introduction to Economics	ECON110	2	55'	14	28	4
5.	Compulsory	Principles of Marketing	MRKT100	2	55'	14	28	4
6.	Compulsory	General English	ENGL101	2	55'	14	28	4
Total:				15				30
Semester 2								
1.	Compulsory	Physiology I	MEDI121	2	55'	14	28	4
2.	Compulsory	Organic Chemistry	CHEM106	2	55'	14	28	4
3.	Compulsory	Introduction to Microbiology	MEDI125	2	55'	14	28	4
4.	Compulsory	Basic Principles of Management	MGMT110	2	55'	14	28	4
5.	Compulsory	Greek and English Medical Terminology	MEDI114	2	55'	14	28	4
6.	Compulsory	Elements of Biochemistry	CHEM120	3	55'	14	42	6
7.	Compulsory	Introduction to Statistics / Biostatistics	STAT104	2	55'	14	28	4
Total				15				30

NEW COURSE STRUCTURE: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 2

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 3								
1.	Compulsory	Physiology II	MEDI207	3	55’	14	42	6
2.	Compulsory	Chemistry of Pharmaceutical and Natural Products	CHEM201	2	55’	14	28	4
3.	Compulsory	Pharmacology I	PHRM210	3	55’	14	42	6
4.	Compulsory	Consumer Behaviour	MRKT207	2	55’	14	28	4
5.	Compulsory	Elements of Pharmaceutical Technology	PHRM213	2	55’	14	28	4
6.	Compulsory	Medical Devices	PHRM221	1	55’	14	14	2
7.	Compulsory	Basic Principles of Accounting	ACCT201	2	55’	14	28	4
Total:				15				30
Semester 4								
1.	Compulsory	Principles of Biopharmaceutics and Pharmacokinetics	PHRM209	2	55’	14	28	4
2.	Compulsory	Pharmacology II	PHRM217	3	55’	14	42	6
3.	Compulsory	Pharmaceutical Marketing	MRKT214	3	55’	14	42	6
4.	Compulsory	Public Relations	PURE207	2	55’	14	28	4
5.	Compulsory	Nosology	MEDI111	2	55’	14	28	4
6.	Compulsory	Medical - Scientific Publications	MEDI214	2	55’	14	28	4
7.	Compulsory	Domestic Pharmaceutical Formulations	PHRM214	1	55’	14	14	2
Total:				15				30

NEW COURSE STRUCTURE: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 3

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 5								
1.	Compulsory	Elements of Biotechnology	PHRM310	2	55’	14	28	4
2.	Compulsory	Toxicology	MEDI305	3	55’	14	42	6
3.	Compulsory	Costing	ACCT310	2	55’	14	28	4
4.	Compulsory	Pharmacovigilance and Clinical Trials	PHRM312	2	55’	14	28	4
5.	Compulsory	Introduction to Public Health-GeSy	MEDI304	2	55’	14	28	4
6.	Compulsory	Development of Personal Skills	COMM305	2	55’	14	28	4
7.	Compulsory	Entrepreneurship	ENTR304	2	55’	14	28	4
Total:				15				30
Semester 6								
1.	Compulsory	Methodology of Research in Health Sciences	PROJ325	2	55’	14	28	4
2.	Compulsory	Introduction to Nutrition	MEDI302	2	55’	14	28	4
3.	Compulsory	Professional Communication	COMM307	2	55’	14	28	4
4.	Compulsory	International Business	BUSS315	2	55’	14	28	4
5.	Compulsory	Pharmacy Law	LAWS307	2	55’	14	28	4
6.	Compulsory	Practical Training	PRCT323	7	55’	14	98	10
Total:				17				30

NEW COURSE STRUCTURE: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 4

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 7								
1.	Compulsory	Marketing Research	MRKT402	2	55’	14	28	4
2.	Compulsory	Human Resources Management	HRMG400	2	55’	14	28	4
3.	Compulsory	Integrated Marketing Communication	MRKT403	2	55’	14	28	4
4.	Compulsory	Pharmacoeconomics	ECON402	2	55’	14	28	4
5.	Compulsory	Specialized Pharmacology: Formulation	PHRM308	2	55’	14	28	4
6.	Compulsory	Thesis I	PROJ413	3	55’	14	42	6
7.	Elective	One elective from the following list		2	55’	14	28	4
Total:				15				30
Semester 8								
1.	Compulsory	e – Marketing	MTKT313	3	55’	14	42	6
2.	Compulsory	Project Management	PROJ403	3	55’	14	42	6
3.	Compulsory	Operations Management	MGMT407	3	55’	14	42	6
4.	Compulsory	Thesis II	PROJ414	4	55’	14	56	8
	Elective	One elective from the following list		2	55’	14	28	4
Total:				15				30

ELECTIVES LIST:

1.	Elective	Bioinformatics	BIOL400	2	55’	14	28	4
2.	Elective	Introduction to Competition Law	LAWS406	2	55’	14	28	4
3.	Elective	Biotechnological Products Sale Consulting	MRKT404	2	55’	14	28	4
4.	Elective	Parapharmaceudical Products	PHRM400	2	55’	14	28	4

ANNEX "2"

COURSE STRUCTURE AS EXAMINED BY THE EEC: DISTRIBUTION OF COURSES PER SEMESTER

Year 1

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 1								
1.	Compulsory	Human Anatomy	MEDI102	3	55'	14	42	6
2.	Compulsory	General and Inorganic Chemistry	CHEM102	3	55'	14	42	6
3.	Compulsory	Cell - Biology and Development	BIOL102	2	55'	14	28	4
4.	Compulsory	Public Relations	PURE103	4	55'	14	56	7
5.	Compulsory	General English	ENGL103	4	55'	14	56	7
Total:				16				30
Semester 2								
1.	Compulsory	Physiology I	MEDI115	3	55'	14	42	6
2.	Compulsory	Organic Chemistry	CHEM106	2	55'	14	28	4
3.	Compulsory	Introduction to Microbiology	MEDI109	2	55'	14	28	4
4.	Compulsory	Principles of Marketing	MRKT100	2	55'	14	28	4
5.	Compulsory	Greek and English Medical Terminology	MEDI113	3	55'	14	28	6
6.	Compulsory	Elements of Biotechnology	PHRM102	1	55'	14	14	2
7.	Compulsory	Introduction to Statistics / Biostatistics	STAT104	2	55'	14	28	4
Total				15				30

COURSE STRUCTURE AS EXAMINED BY THE EEC: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 2

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 3								
1.	Compulsory	Physiology II	MEDI202	3	55'	14	42	6
2.	Compulsory	Chemistry of Pharmaceutical and Natural Products	CHEM201	2	55'	14	28	4
3.	Compulsory	Pharmacology I	PHRM203	3	55'	14	42	6
4.	Compulsory	Consumer Behaviour	MRKT207	2	55'	14	28	4
5.	Compulsory	Elements of Pharmaceutical Technology	PHRM200	2	55'	14	28	4
6.	Compulsory	Medical Devices	PHRM221	1	55'	14	14	2
7.	Compulsory	Basic Principles of Accounting	ACCT201	2	55'	14	28	4
Total:				15				30
Semester 4								
1.	Compulsory	Principles of Biopharmaceutics and Pharmacokinetics	PHRM209	2	55'	14	28	4
2.	Compulsory	Pharmacology II	PHRM211	3	55'	14	42	6
3.	Compulsory	Pharmaceutical Marketing (Promotion and Distribution of Pharmaceuticals)	MRKT208	2	55'	14	28	4
4.	Compulsory	Professional Communication	COMM203	2	55'	14	28	4
5.	Compulsory	Nosology	MEDI111	2	55'	14	28	4
6.	Compulsory	Pharmacy Law and Bio-Ethics	LAWS200	1	55'	14	14	2
7.	Compulsory	Medical - Scientific Publications	MEDI214	2	55'	14	28	4
8.	Compulsory	Domestic Pharmaceutical Formulations	PHRM214	1	55'	14	14	2
Total:				15				30

COURSE STRUCTURE AS EXAMINED BY THE EEC: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 3

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 5								
1.	Compulsory	Elements of Biochemistry	CHEM300	3	55’	14	42	6
2.	Compulsory	Toxicology	MEDI305	3	55’	14	42	6
3.	Compulsory	Pharmacy Law – Deontology – GDPR	LAWS304	2	55’	14	28	3
4.	Compulsory	Basic Principles of Management	MGMT309	2	55’	14	28	4
5.	Compulsory	Introduction to Public Health-GeSy	MEDI304	2	55’	14	28	3
6.	Compulsory	Interpersonal Communication	COMM300	2	55’	14	28	4
7.	Compulsory	Entrepreneurship	ENTR302	2	55’	14	28	4
Total:				16				30
Semester 6								
1.	Compulsory	Specialized Pharmacology: Formulation	PHRM308	2	55’	14	28	4
2.	Compulsory	Introduction to Nutrition	MEDI302	2	55’	14	28	4
3.	Compulsory	Effective Organization and Sales Administration	BUSS309	2	55’	14	28	4
4.	Compulsory	Introduction to Economics	ECON302	3	55’	14	42	6
5.	Compulsory	Practical Training	PRCT301	10	55’	14	140	12
Total:				19				30

COURSE STRUCTURE AS EXAMINED BY THE EEC: DISTRIBUTION OF COURSES PER SEMESTER (Cont.)

Year 4

No	Course Type	Course Name	Course Code	Periods per week	Period duration	No of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 7								
1.	Compulsory	Marketing Research	MRKT402	2	55'	14	28	4
2.	Compulsory	Human Resources Management	HRMG400	2	55'	14	28	4
3.	Compulsory	Integrated Marketing Communication	MRKT305	2	55'	14	28	4
4.	Compulsory	Pharmaco-Economics	ECON400	3	55'	14	42	6
5.	Compulsory	Methodology of Research in Health Sciences	PRCT322	2	55'	14	28	4
6.	Compulsory	Thesis I	PROJ410	4	55'	14	56	8
Total:				15				30
Semester 8								
1.	Compulsory	e – Marketing	MTKT313	3	55'	14	28	6
2.	Compulsory	Project Management	PROJ411	4	55'	14	42	8
3.	Compulsory	Operations Management	MGMT406	4	55'	14	56	8
4.	Compulsory	Thesis II	PROJ412	4	55'	14	56	8
Total:				15				30

ANNEX "3"

PROGRAMME COURSES - NEW FORM

a) Course list

No	Course Code	Course Name	Page
1.	MEDI102	Human Anatomy	45
2.	CHEM108	General and Inorganic Chemistry	47
3.	BIOL104	Cell - Biology and Development	52
4.	ECON110	Introduction to Economics	54
5.	MRKT100	Principles of Marketing	56
6.	ENGL101	General English	58
7.	MEDI121	Physiology I	60
8.	CHEM106	Organic Chemistry	63
9.	MEDI125	Introduction to Microbiology	66
10.	MGMT110	Basic Principles of Management	69
11.	MEDI114	Greek and English Medical Terminology	71
12.	CHEM120	Elements of Biochemistry	73
13.	STAT104	Introduction to Statistics / Biostatistics	75
14.	MEDI207	Physiology II	77
15.	CHEM201	Chemistry of Pharmaceutical and Natural Products	80
16.	PHRM210	Pharmacology I	82
17.	MRKT207	Consumer Behaviour	85
18.	PHRM213	Elements of Pharmaceutical Technology	87
19.	PHRM221	Medical Devices	90
20.	ACCT201	Basic Principles of Accounting	92
21.	PHRM209	Principles of Biopharmaceutics and Pharmacokinetics	94
22.	PHRM217	Pharmacology II	96
23.	MRKT214	Pharmaceutical Marketing	99
24.	PURE207	Public Relations	101
25.	MEDI111	Nosology	103
26.	MEDI214	Medical - Scientific Publications	105
27.	PHRM214	Domestic Pharmaceutical Formulations	107

No	Course Code	Course Name	Page
28.	PHRM310	Elements of Biotechnology	109
29.	MEDI305	Toxicology	111
30.	ACCT310	Costing	113
31.	PHRM312	Pharmacovigilance and Clinical Trials	115
32.	MEDI304	Introduction to Public Health-GeSy	117
33.	COMM305	Development of Personal Skills	119
34.	ENTR304	Entrepreneurship	121
35.	PROJ325	Methodology of Research in Health Sciences	123
36.	MEDI302	Introduction to Nutrition	125
37.	COMM307	Professional Communication	127
38.	BUSS315	International Business	129
39.	LAWS307	Pharmacy Law	131
40.	PRCT323	Practical Training	133
41.	MRKT402	Marketing Research	135
42.	HRMG400	Human Resources Management	137
43.	MRKT403	Integrated Marketing Communication	139
44.	ECON402	Pharmacoeconomics	141
45.	PHRM308	Specialized Pharmacology: Formulation	143
46.	PROJ413	Thesis I	145
47.	MRKT313	e – Marketing	147
48.	PROJ403	Project Management	149
49.	MGMT407	Operations Management	151
50.	PROJ414	Thesis II	153
51.	BIOL400	Bioinformatics	155
52.	LAWS406	Introduction to Competition Law	157
53.	MRKT404	Biotechnological Products Sale Consulting	159
54.	PHRM400	Parapharmaceudical Products	161

b) Course syllabi

1.

Course Title	Human Anatomy				
Course Code	MEDI102				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year/ 1st Semester				
Teacher's Name	Papadopoulos Elias, M.D.				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to enable students to understand the construction of the human body and be able to refer to the main bones of the human skeleton structure as well as to the anatomical levels of the body.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Distinguish the concepts of cell, tissue, organs and systems; • Describe the main joints of the human body; • Identify, name and list the main bones of the human trunk; • Identify, name and list the main bones of the human head; • Identify, name and list the main bones of the human upper and lower limbs; • Report various anatomy levels of the human body.				
Prerequisites	None	Required	None		
Course Content	Introduction to the following: • Human Body • The skin • The skeletal system - Bones of the skull and chest • The spine and the pelvic zone • The upper limb skeleton • The lower limb skeleton • The joints of the skeleton • The muscular system • The respiratory system • The circulatory system • The lymphatic system • The nervous system • The endocrine system • The digestive system • The urinary system • Reproductive system				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Μαρκιτανή, Κωνσταντίνα (2018) Ανατομία Ανθρώπινου Σώματος, KES College. • Aldersey-Williams, Huge (2017) Ανατομίες: το ανθρώπινο σώμα, τα μέρη του και οι ιστορίες που διηγούνται, Ροπή, ISBN: 978-618-5289-07-2.				

	• Lieberman, DanielE. (2015) Η ιστορία του ανθρώπινου σώματος: υγεία, ασθένεια και φυσική επιλογή, το νέο επίπεδο εξελικτικής ιατρικής, Κάτοπτρο, ISBN: 978-618-5111-41-0. • Παρασκευάς, Γεώργιος Κ. (2008), Ανατομία του ανθρώπου, University Studio Press, Θεσσαλονίκη, ISBN: 9789601216645. • Τσουνιάς, Δημήτρης (2007) Στοιχεία ανατομίας και φυσιολογίας του ανθρώπου, Ιατρικές Εκδόσεις, ISBN: 978-960-372-114-7. • Gest, Thomas R. (2016), Συνοπτική έγχρωμη ανατομία: Ράχη, άνω άκρο και κάτω άκρο, Παρισιάνου Α.Ε., ISBN 978-960-583-057-1. • Καμμάς, Αντώνης (2010), Μαθήματα ανατομικής, Βήτα Ιατρικές Εκδόσεις, ISBN 978-960-452-107-4. ***English Bibliography:*** • Vaughn, Philip (2016) Anatomy and Physiology: made easy: a concise learning guide to master the fundamentals, Create Space Independent Publishing, ISBN: 978-1534635319. • Saladin, Kenneth (2018) Anatomy and Physiology: the unity of form and fuction, 7th edition, McGraw- Hill Education, ISBN: 978-0073403717. • Kapit, Wynn (2014) The Anatomy, 4th edition, Pearson, ISBN: 978-03218320116. • Marieb, ElaineN. , Hoehn, Katja N. (2012) Human Anatomy and Physiology, 9th edition, Pearson, ISBN: 978- 0321743268. • Waugh, Anne (2010) Ross and Wilson anatomy and physiology in health and illness, Churchill Livingston, Edinbourgh, ISBN: 978-0-7020-3227-1. • Connor, Jeanine (2006) Anatomy and physiology for therapists, Heinemann, Oxford, ISBN: 978-0-435449-40-7. • Hull, Ruth (2009) Anatomy and physiology: For beauty and comlementary therapies, The write idea, Cambridge, ISBN: 978-0-9559011-1-9. • Tucker, Louise (2009) An introductory guide to Anatomy and Physiology, Ems publishing, London, ISBN: 9781903348284. • Wood,Yvonne (2008), Anatomy and physiology: The essential study and revision guide for the write idea, Cambridge, ISBN: 9780955901102.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

2.

Course Title	General and Inorganic Chemistry				
Course Code	CHEM108				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Dr. Pieridou Galatia				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	The main purpose of the course is to provide students with basic knowledge of General and Inorganic Chemistry which are essential for the understanding and consolidation of the knowledge required by a Medical Representative.				
Learning Outcomes	By the end of the course, students are expected to: • Explain the use and properties of water; • Distinguish the various elements and know the main features associated with them; • List the similarities, differences and peculiarities between acids, bases and salts; • Explain the basic principles of atomic and electronics theory; • Analyze the main properties and characteristics of the solutions; • Know, understand and explain through modeling the structure of molecules and the molecular bonds; • Understand the periodicity of the chemical properties of the elements as well as its effects on the chemical behavior of compounds of the elements of the periodic table. • Understand the importance of Chemistry and its' relationship with Pharmacy; • Understand and explain the chemical basis of water pollution. • Apply basic knowledge and principles regarding spectroscopy by clarifying the structure and activity of chemical compounds. • Satisfactorily master concepts, techniques, and applications in basic general and inorganic chemistry laboratory exercises, like pH determination, oxidation/reduction, electrical conductivity, solubility, spectroscopy, etc.				
Prerequisites	None	Required	None		
Course Content	1. Introduction to Chemistry • Chemical substances • Chemical element and chemical compound – Definition • The characteristics of mixtures 2. Atom and its structure • Atomic Philosophers • Structure of the atom • Atomic Theories • Electronic structure of atoms • Valence of elements • Isotopic elements • Atomic mass 3. Molecules – bonds • The concept of the molecule • Covalent bond • Double and triple bond • The size of molecules				

	• Chemical formulas • Gram-molecule and molar volume • Heteropoly or ionic bond • Forces Van der Waals • Hydrogen Bond 4. Periodic Table • Structure of the periodic table • Position of the elements in the periodic table. • Grouping of data and analysis of their main physical and chemical properties by groups. • Examination of S sector data. • Variation of the physical and chemical properties of the elements in the P periodic table 5. Solutions - general concepts • The concept of solution • Solubility • Gas in liquid solutions • Characteristics of the solutions • The colloidal solutions • The suspensions 6. Water, importance to human • Basics for water • Natural waters • Hard and soft water • Softening of water • Chlorination of water • Sterilization of water • Thermal waters • Dehydration of the human body • Water as a solvent • Which substances dissolve water • Crystallizing Water – Plaster 7. Water pollution • Basics for water pollution • Organic pollutants of natural origin • Organic pollutants of artificial origin • Inorganic pollutants 8. Solutions - Special cases • Ionic solutions • Equivalent weights - chemical equivalents • Normal and molecular solutions • Dissolution • Osmosis and its importance in humans • Osmomolarity • Isotonic solutions – Haemolysis • How the artificial kidney works 10. Acids - Bases – Salts • Basics for acids • Electrolytic indicators • Acidity - The concept of pH – Indicators • The ideal neutral substance • Definition of pH

	• Types of acids and their names • What are bases • Electrolytic dimension • Generally for salts • Accentual balance in the body • Regulating systems • Causes of acidosis and alkalosis 11. Chemical reactions • Classification, species, • Chemical equilibrium, • Chemical kinetics, • Redox. • Chemical reactions, energy, basicity, acidity, nucleophilia, electrophilia. 12. Oxygen • Basics for oxygen • Properties – production • Oxides and their behaviour • Classification of oxides • Hydrogen peroxide • Basics for ozone • Physical requirements for oxygen 13. Nitrogen – Phosphorus • Basics for nitrogen • Nitrogen in nature • Production of nitrogen • Nitrogen in the human body • Inorganic nitrogen compounds - nitrous oxide • Phosphorus • Phosphorus in the human body 14. Sulfur and its compounds • General about the brimstone • Sulfur properties • Sulfur dioxide • Sulfuric acid • The sulfur in the human body 15. Halogens • General characteristics of halogen • The importance of fluoride in humans • Fluorination of water 16. Aluminum • Aluminum • Aluminum compounds • Aluminum in the human body 17. Iron • Existence and properties of iron • Iron items • Iron compounds • The role of iron in breathing • Anemia • Blood transfusion • Iron - Human element

	18. Copper • Basics for copper • What are alloys • Copper as a trace element • Copper as a medicine • Copper compounds as radio protective agent 19. Silver-Gold-Mercury • Silver • Gold • Mercury – Generally • Amalgam • Mercury halides • The toxicity of mercury 20. Spectroscopy. • Use of spectroscopic data to identify compounds or elucidate reaction mechanisms. <u>Laboratory Exercises:</u> • Introduction, laboratory safety discussion. Use of basic laboratory equipment. • Equilibrium in the dimension of weak electrolytes. Measurement of pH of aqueous solutions. Determination of the pH of the above aqueous solutions using pH paper • Oxidation and reduction. Creation of a series of metal electropositivity. Study of the oxidative action of potassium permanganate. • Testing of electrical conductivity of sodium chloride solution • Detection of electrical conductivity of sugar solution • Melting of wax; boiling of water • Sublimation of iodine • Liquefied petroleum gas burning and detection of produced water and carbon dioxide • Melting of paraffin • Observation of the produced soot proving the presence of atmospheric air • Selection of certain materials (salt, soda, sugar, sand, oil, alcohol, acetone) and a test of their solubility in water • Dissolving a) a potassium permanganate granule; and b) dropping ink in water, preparing solutions of indicators by extracting plant substances (e.g. red cabbage, tea, etc.) • Addition of lemon, vinegar and dilute hydrochloric acid juice to these extracts • Effect of dilute acid solutions on soda, marble and certain metals (zinc, iron, etc.). • Visible spectroscopy. Measurement practices and its uses.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit. Lectures are accompanied with individual laboratory exercises, carried out in the laboratory of the college.

Bibliography	***Greek Bibliography:*** • Θεοχάρους, Σπύρος (2014) Ανόργανη χημεία: KES College, Λευκωσία. • Ebbing, Darrell D., Gammon, Steven D., (2014) Σύγχρονη Γενική Χημεία: αρχές και εφαρμογές, 10η έκδοση, Εκδόσεις Τραυλός, ISBN 978-618-5061-02-9. • Σπηλιόπουλος, Ιωακείμ (2010) Εργαστηριακές τεχνικές και πειράματα οργανικής χημείας, Σταμούλης Α.Ε., ISBN:978-960-351-836-5. • Huheey, James (2012), Ανόργανη χημεία: Αρχές δομής και δραστικότητα, Εκδόσεις Ίων, ISBN: 9789603193081. • Λαλία- Καντούρη, Μαρία (2014), Γενική και ανόργανη χημεία: Αρχές & εργαστηριακές ασκήσεις, Εκδόσεις Ζήτη, ISBN: 9789604563357. • Μανουσάκης, Γεώργιος (2016), Γενική και ανόργανη χημεία, Εκδόσεις Κυριακίδη, ISBN: 9789605990091. ***English Bibliography:*** • Timberlake, Karen (2015) Chemistry: an introduction to general, organic and biological chemistry, Global Edition, 12th edition, Pearson, ISBN: 978-1292061320. • McMurry, John (2010), Fundamentals of general, organic, and biological chemistry, Prentice Hall, Upper Saddle River, NJ, ISBN: 978-0-13-815228-4. • Voet, Donald (2006), Fundamentals of biochemistry, Wiley, New York, ISBN: 0-471-21495-7. • Housecroft, CatherineE (2006), Chemistry: Anintroductiontoorganic, inorganic, andphysicalchemistry, Pearson Prentice Hall, Harlow, England, ISBN: 0-13-1257567-4.
Assessment	• Class Participation 10% • Assignments / Projects 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

3.

Course Title	Cell-Biology and Development				
Course Code	BIOL104				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	1st Year/ 1st Semester				
Teacher's Name	Dr. Sarris Dimitrios				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	The aim of the course is to cover basic aspects of Cell Biology so that the students can adequately understand the structure and function of the cell. Emphasis is placed on the organic structure of the cell as well as on cell biomolecules (proteins, polysaccharides, lipids and nucleic acids), as well as the subcellular organelles. Furthermore, emphasis will be given to basic biological macromolecules, intracellular transport pathways, energy production and to the cellular/molecular basis of cancer, as well.				
Learning Outcomes	By the end of the course, students are expected to: • Analyze the structure and functions of cells and tissues • Review the structure and function of major biomolecules • Identify the differences between eukaryotic and prokaryotic cells • Be able to understand the methods and apply the practical solutions, for the analysis of cellular processes, during laboratory exercises.				
Prerequisites	None	Required	None		
Course Content	• Cell theory (cell definition) • Size and shape of the cell • Parts of the cell / cellular organelles • Cell building blocks • Cellular or plasma membrane • Cell membrane permeability • Eukaryotic and prokaryotic cells • Cell nucleus • Mitochondria and Chloroplasts • Chromatin, chromosomes • Cell division • Mitosis • Meiosis • DNA, RNA • The Gene • Synthesis, folding, modification and degradation of proteins • Multicellular Organization and Cancer. <u>Laboratory Exercises:</u> 1] Laboratory Rules and Safety. 2] Microscopy laboratory – Observation and Discussion DNA/RNA Human Chromosome (Male) Human Chromosome (Female) 3] Isolation of DNA derived from cheek epithelial cells 4] DNA quantification. Measurement OD260/280 5] Measurement of cell population (erythrocytes) 6] Bacterial cultures				

	-Growth of microorganisms- Introduction to bacterial cultures, bacterial growth determination in samples derived from objects that we use and touch daily. -Determination of bacterial concentration by OD measurements (spectrophotometric).
Teaching Methodology	The content of this course will be taught through: presentations using PowerPoint and online material, guided discussions with active student participation, individual and teamwork student tasks as well as laboratory exercises.
Bibliography	***Greek Bibliography:*** • Κεβρεκίδης, Θόδωρος Δ. (2018), Βιολογία: Δομή και λειτουργία των οργανισμών, 2η έκδ., University Studio Press, ISBN 978-960-12-2389-6. • Θωμόπουλος, Γεώργιος Ν. (2006) Ρυθμιστικοί μηχανισμοί κυτταρικής λειτουργίας: ειδικά θέματα βιολογίας κυττάρου, University Studio Press, Θεσσαλονίκη, ISBN: 978-960-12-1549-5. • Χατζηαντωνίου Α. (2004), Βιολογία: Η μελέτη της ζωής, Εκδόσεις Σταμούλη, Αθήνα, ISBN: 960-3515-47-7. • Καστρίτσης, Κώστας Δ., Δημητριάδης, Βασίλης Κ., Σιβροπούλου, Αφροδίτη Θ. (2015) Εισαγωγή στη βιολογία, Αφοί Κυριακίδη Εκδόσεις Α.Ε., ISBN: 978-960-602-002-5. • Campbell, Neil A (2015), Βιολογία: Η χημεία της ζωής - το κύτταρο – γενετική, Πανεπιστημιακές Εκδόσεις Κρήτης, ISBN: 9789605243067. • Χατζημόσχου, Αθανάσιος (2015), Βιολογία, Smart Learn, ISBN: 9789609892643. ***English Bibliography:*** • Norman Robert I. (2007), Flesh and Bones of Medical Cell Biology, Publisher Mosby, ISBN: 9780723433675. • Alberts Bruce (2014), Essential Cell Biology, Publisher Garland Science, ISBN: 9780815344551. • Papachristodoulou, Despo (2014), Biochemistry & molecular biology, Oxford University Press, ISBN: 9780199609499.
Assessment	• Class Participation 10% • Assignments / Projects 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

4.

Course Title	Introduction to Economics				
Course Code	ECON110				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Elena Panagiotou				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to introduce students to the economical way of thinking, to the understanding of the economic principles and how the economy works, within the context of different economic systems.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Understand the theory of the microeconomics including the underlying principles, such as lack, choice, and the maximization theory for the individual, business and government. • Compare modern economic events and evaluate decisions in relation to microeconomics as they are taken by businesses, consumers and government, along with the impact on their lives. • Evaluate the implications of the various government decisions on free market functioning, recognize the positive and negative effects of this action and contrast issues of efficiency and equity.				
Prerequisites	None	Required	None		
Course Content	• Basic economic concepts: The economic problem and the science of economics. • The general context of the market: The problem of social choice and the economic systems. • Demand, bid and price formation: Demand and bidding functions. Elasticity of demand and supply. • Consumer Choice and Demand Theory: The Usefulness of Economic Goods. Demand function and marginal utility. Indifference curves and consumer balance. • Applications of the theory of price determination. • Elements from the production and cost theory: Production function in the short term. • Cost behavior over the short and long term. • Forms of the market depending on the intensity of competition and balance in each of them: Fully competitive market. Monopoly. Monopoly competition and oligopoly. • Land, Workforce, Chapter: Demand in Markets, Labor Markets and Wages, Rent, Interest and Profits, Efficiency, Justice and the Public Sector, Income Distribution and Poverty				
Teaching Methodology	Lectures, Use of Audiovisual media, Exploratory method, Collaborative method, Project method.				
Bibliography	***Greek Bibliography:*** • Hazlitt, Henry (2017), Οικονομικά σε ένα μάθημα, Εκδόσεις Παπαδόπουλος, ISBN 978-960-569-661-0.				

	• Mankiw, N. Gregory & Taylor, Mark P. (2010), Αρχές οικονομικής θεωρίας: Με αναφορές στις ευρωπαϊκές οικονομίες (Μικροοικονομική), Gutenberg, ISBN: 9789600113280. • Roger, Arnold(2007), Εισαγωγή στην Οικονομική, Εκδόσεις Επίκεντρο, ISBN: 978-960-6647-63-5. • Κώττης, Γεώργιος Χ. (2002) Σύγχρονα οικονομικά για όλους 3η έκδοση, Εκδόσεις Παπαζήσης Αθήνα, ISBN: 978-960-02-1591-5. ***English Bibliography:*** • Mankiw, N. Gregory & Mark, P. Taylor (2020), Economics, 5th, Cengage Learning,ISBN: 978-1-4737-6854-3. • Sowell, Thomas (2015), Basic economics: A common sense guide to the economy,5th, Basic Books, ISBN: 9780465060733. • Hoskins, Colin(2004), Media economics: Applying economics to new and traditional media, Sage Publications,ISBN: 0761930965.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

5.

Course Title	Principles of Marketing				
Course Code	MRKT100				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Yerocosta Costas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is the theoretical understanding and practical application of various modern principles of customer-oriented marketing by students in relation to the competitive business environment.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Acquire the relevant knowledge of the terminology, methods, trends and concepts of the marketing industry. • Understand the fundamental contemporary marketing principles and theories as these are applied to international and domestic marketing. • Apply skills and marketing skills to his or her professional workplace in order to understand: a) of all sorts of decisions they have to take to design the marketing mix in their work b). the steps involved in the segmentation of the target markets. • Become aware of all ethical and social responsibility issues that companies face which are related to marketing decisions.				
Prerequisites	None	Required	None		
Course Content	Marketing in a Changing World: Creating Value and Satisfaction for the Customer, Strategic Marketing and Marketing Process, Marketing Environment, Marketing Information System and Marketing Research, Consumer Markets and Consumer Behaviour, Business Markets and Business Behaviour of Businesses, Segmentation Market, Targeting and Siting to Achieve Competitive Advantage, Product and Service Strategy, New Product Development and Strategies Product Lifecycle, Product Pricing: Billing Factors and Pricing, Pricing Strategies, Distribution Channels and Logistics, Retail and Wholesale Sales: • Role of Sales within the framework of Strategic Marketing • Sale Process • Forms-Types of Sales • Forecasting Sales • Recruitment, Selection and Recruitment of Sellers • Involvement and Merchant Sales • Vendor Surveillance and Valuation • Cost and Performance Sales Analysis				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of diagrams and tables, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek bibliography:*** • Πασχαλούδης, Δημήτριος(2018), Εισαγωγή στο μάρκετινγκ, Τζιόλα, ISBN 978-960-418-798-0.				

	• Μαλλιαρής, Πέτρος (2001) Εισαγωγή στο Μάρκετινγκ,3rd, Σταμούλη Α.Ε., Αθήνα, ISBN: 9603513679. • Δημητριάδης, Σέργιος (2010), Μάρκετινγκ: Αρχές, Στρατηγικές, Εφαρμογές, Rosili, Αθήνα, ISBN: 9789607745286. • Kotler, Philip (2005), Αρχές του Μάρκετινγκ,2η Ευρωπαϊκή Έκδοση, Κλειδάριθμος, Αθήνα, ISBN: 960-209-468-0. • Σιώμκος, Γεώργιος Ι. (2004), Στρατηγικό Μάρκετινγκ, Σταμούλης, Αθήνα, ISBN: 960-351-474-8. • Σιώμκος, Γεώργιος Ι. (2011), Συμπεριφορά καταναλωτή & στρατηγική μάρκετινγκ, 3η Αθ. Σταμούλης, ISBN: 9789603514565. • Αλεξανδρής, Κωνσταντίνος (2016), Αρχές μάνατζμεντ και μάρκετινγκ: Οργανισμών και επιχειρήσεων αθλητισμού και αναψυχής,2η, Αφοί Κυριακίδη Εκδόσεις Α.Ε., ISBN: 97896060210690. ***English bibliography:*** • Pushkov, Sergey (2016) Internet marketing: top 10 most effective strategies, Createspace Independent Publishing, ISBN: 978-1523698394. • Kotler, Philip (2012), Marketing management,14th, Prentice Hall, ISBN: 9780132102926. • Kotler, Philip, Armstrong, Gary (2012) Principles of marketing,14th, Pearson Prentice Hall, ISBN: 9780132167123. • Ferrell, O.C., Hartline, Michael D. (2011) Marketing Strategy, 5th edition, Cengage Learning , ISBN: 9780538467384.
Assessment	• Class Participation 10% • Assignments / Projects/ Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

6.

Course Title	General English				
Course Code	ENGL101				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Tserkezou Maria				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the General English course is to extend students' knowledge of the English language and further develop their skills in both spoken and written language.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Become familiar with the basic grammar and editing rules of English at Intermediate level • Identifies the necessity of using the English language in practicing the profession of Medical Representative • Recognizes basic and elementary English vocabulary at Intermediate level • Acquire the basic knowledge and prerequisites to use English in written and spoken language • Understand the need for continuous and systematic contact with the English language.				
Prerequisites	None	Required	None		
Course Content	• Transport, Places in a city, Household chores • Grammar: Adverbs of manner, Present Simple/ Present Continuous, Stative verbs, Comparisons, infinitive/-ing form; • Vocabulary: Jobs, character adjectives, Hobbies, Applying for a job; • Grammar: Past Continuous Vs Past Simple, Used to, Past Perfect, Past Perfect Continuous; • Vocabulary: The Internet, going to, Present Continuous/Present Simple with future meaning, time clauses, Conditionals, • Vocabulary: the weather,				
Teaching Methodology	The content of this section will be taught through: PowerPoint presentation slides use of diagrams and tables guided discussions with students' active participation, individual and teamwork on the part of students, and the use of various supervisory tools to teach of u.				
Bibliography	***Greek Bibliography:*** • Παντελή, Μαρία (2018) Αγγλική ορολογία, KES College. ***English Bibliography:*** • Leith, Sam (2018) Write to the Point: A master class on the fundamentals of writing for any purpose, The Experiment, ISBN: 9781615194629. • Williams, Phil, Wright, Bob (2014) The English Tenses: Practical Grammar Guide, Rumian Publishing, ISBN: 9780993180804. • Virginia Evans, Jenny Dooley (2012), Prime Time (Intermediate), Express Publishing, ISBN: 978-1471500213.				

Assessment	• Class Participation 10% • Test 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	English

7.

Course Title	Physiology I				
Course Code	MEDI121				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	1st year/ 2nd semester				
Teacher's Name	Papadopoulos Elias, M.D.				
ECTS	4	Lectures / week	1	Laboratories / week	1
Course Purpose and Objectives	The aim of the course Physiology I is the in-depth understanding by the students of the physiological processes of the human body and the familiarization with the physiological functions of the cells, organs and main systems of the human body. The students are particularly keen to get themselves familiarised with the main elements of physiology of the circulatory and digestive system of the human body.				
Learning Outcomes	By the end of the course, students are expected to: • Outline and describe the general and basic elements of human physiology; • Describe the main processes of the physiology of the circulatory system in the human body; • Describe the main processes of the physiology of the digestive system in the human body; • Describe the main processes of the physiology of the liver and the pancreas in the human body. • Able to illustrate functional characteristics of organ systems discussed in lecture and to be provided with direct experience in microscopy observation, regarding the circulatory system, digestive system, as well as liver gallbladder and pancreas.				
Prerequisites	MEDI102	Required	None		
Course Content	1. The circulatory system • Heart • Blood circulation 2. The main blood vessels • Names and locations of the main arteries • The main veins 3. The blood • Blood Pressure • Amorphous and amorphous blood components 4. The digestive tract and digestion of food • Oral cavity (salivary glands and saliva) • The pharynx and the oesophagus • Stomach and gastric digestion • Small intestine and intestinal digestion • Small intestine glands • The large intestine and defecation • The peritoneum 5. The liver, gallbladder and pancreas <u>Laboratory Exercises:</u> 1] Circulatory System: a) Video of the circulatory system, b) Sounds-heartbeats - Digital simulation,				

	c) Interactive DVD for Circulation demonstration (Heart Pump) - Use of a stethoscope 2] Vascular physiology and circulatory regulation Interactive DVD with the Circulatory system- Arterial pressure - Use of a sphygmomanometer 3] Microscopy Laboratory: Blood vessels Observation of Aorta, EGT, hematin-eosin and staining for elastic tissue Artery and vein stained for elastic tissue 4] Microscopy Laboratory: Digestive tract Observation of Esophagus and trachea, Eg.T. of both organs, Stomach wall, Intestine, Ileo-blind process, Eg.T. 5] Microscopy Laboratory: Liver, Gallbladder, Pancreas Observation of Liver, Pork liver with beans surrounded by binder Gallbladder, Pancreas, botryoid gland with islets of Langerhans.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit as well as laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Guyton, Arthur C. (2017), Ιατρική φυσιολογία: Guyton and Hall, Παρισιάνου Α.Ε., ISBN 978-960-583-175-2. • Βαρσαμίδης, Κωνσταντίνος (2016) Φυσιολογία του ανθρώπου, UniversityStudioPress, Θεσσαλονίκη, ISBN: 978-960-12-2269-1. • Schmid, RobertF. (2010) Συνοπτική φυσιολογία του ανθρώπου, Εκδόσεις Π. Χ. Πασχαλίδης, ISBN: 978-960-489-078-1. • Χανίωτης, Φραγκίσκος Ι. (2009), Φυσιολογία, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN: 978-960-372-1239 • McGeown, J.G. (2009) Συνοπτική φυσιολογία του ανθρώπου, Ιατρικές Εκδόσεις Π. Χ. Πασχαλίδης, ISBN: 978-960-399-665-1. • Τσούνιας, Δημήτρης (2007) Στοιχεία ανατομίας και φυσιολογίας του ανθρώπου, Ιατρικές Εκδόσεις Λίτσας, ISBN: 978-960-372-114-7. • Hansen, John T. (2004), Άτλας βασικών ιατρικών επιστημών: Φυσιολογία του ανθρώπου, Ιατρικές εκδόσεις Π.Χ.Πασχαλίδης, Αθήνα, ISBN: 960-399-152-X. • Χατζημπούγιας, Ιωάννης (2003), Στοιχεία Ανατομικής του Ανθρώπου, 3η Έκδοση, GM Design, Αθήνα, ISBN: 960-7898-02-8. • Tortora, Gerard J. (2007), Φυσιολογία του ανθρώπινου σώματος, Έλλην, Τόμος Ά & ΄Β, ISBN: 9789602869536, ISBN: 9789602869170. ***English Bibliography:*** • Odya, Erin, Norris, Maggie A. (2017) Anatomy and physiology for dummies, 3rd edition, ISBN: 978-1119345235. • McKinley, Michael, O'Loughlin, Valerie, Bidle, Theresa (2016) Anatomy and Physiology: An integrative approach, McGraw- Hill Education, ISBN: 9781259255076. • Waugh, Anne (2010) Ross and Wilson anatomy and physiology in health and illness, Churchill Livingston, Edinbourgh, ISBN: 978-0-7020-3227-1. • Hall, John E. (2016) Guyton and Hall textbook of medical physiology, 13th edition, Saunders, ISBN: 9781455770052.

	• Wood, Yvonne (2008) Anatomy and physiology: The essential study and revision guide for the write idea, Cambridge, ISBN: 9780955901102. • Tucker, Louise (2009) An introductory guide to Anatomy and Physiology, Ems publishing, London, ISBN: 9781903348284. • Hull, Ruth (2010) Anatomy and physiology: For beauty and comlementary therapies, The write idea, Cambridge, ISBN: 978-0-9559011-2-6. • Connor, Jeanine (2006) Anatomy and physiology for therapists, Heinemann, Oxford, ISBN: 978-0-435449-40-7. • Guyton, Arthur C (2006) Textbook of Medical Physiology, Elsevier Saunders, Philadelphia, ISBN: 0-7216-0240-1. • Hall, John E. (2006) Guyton and Hall physiology review, Elsevier Saunders, Edinburgh, ISBN: 0-7216-8307-X.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Laboratory Exercises 10% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

8.

Course Title	Organic Chemistry				
Course Code	CHEM106				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Dr. Siafaka Panoraia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The main objective of the course "Organic Chemistry" is for students to acquire basic knowledge of Organic Chemistry with the final result of having the knowledge necessary for the profession of Medical Representative.				
Learning Outcomes	By the end of the course, students are expected to be able to: • List the main characteristics of the carbon atom; • Know the theoretical basis for the creation of organic compounds; • Analyze the main properties and characteristics of saturated and unsaturated hydrocarbons; • Know and apply the rules of the organic compounds nomenclature; • Understand the importance of Organic Chemistry and its relationship with Pharmacy; • Understand and explain the chemical basis of hydrocarbons, alcohols, ethers, aldehydes, ketones, amines, organic acids and aromatic compounds; • Outline the main points regarding enzymes.				
Prerequisites	None	Required	None		
Course Content	Organic compounds • Generally for organic compounds • Organic compounds • Classification of organic compounds • Homogeneous rows • Generally for isomer • General principles of the nomenclature Saturated and Unsaturated Hydrocarbons • Generally for saturated hydrocarbons • Equilibrium of saturated hydrocarbons • General alkane properties • Unsaturated hydrocarbons – Generally • Ethylene • Acetylene Alcohols • Generally for alcohol • Alcohol properties • Methyl alcohol • Ethyl alcohol • Alcoholic fermentation • Synthetic and denatured alcohol • Glycerin Ethers-Aldehydes-Ketones-Amines • Generally for ethers • Generally for carbonyl compounds				

	• Formaldehyde • Acetaldehyde – Acetone • Generally for amines • Urea Organic acids • General characteristics of acids • Acetic acid • Other biologically interesting acids Aromatic compounds • Generally for aromatic compounds • Benzene and derivatives • Phenol and derivatives • Aromatic amines • Aromatic acids • Polycyclic aromatic systems Enzyme • Generally for enzymes • Elementary mechanism of enzymatic activity • Enzyme antagonists or inhibitors • Enzyme classification and designation Enzymes as a diagnostic tool
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Wade, Leroy G. (2018), Οργανική χημεία, Τζιόλα, ISBN 978-960-418-804-8. • Συλλογικό Όργανο, Clayden, Jonathan, Greeves, Nick,Warren, Stuart (2016) Οργανική χημεία, Utopia, Αθήνα, ISBN: 978-618-51732-0-3. • McMurry, John (2015) Οργανική Χημεία, Πανεπιστημιακές Εκδόσεις Κρήτης, ISBN: 978-960-524-054-7. • Κούρτης, Δημήτρης (2008) Οργανική χημεία: βασική θεωρία, χημικές αντιδράσεις, μηχανισμοί, SPIN, Αθήνα, ISBN: 978-960-8250-53-6. • Γεωργάτσος Ι. (2005), Εισαγωγή στη βιοχημεία, εκδ. Γιαχούδη, Θεσσαλονίκη, ISBN: 960-7425-02-2. • Μανουσάκης, Γεώργιος (2015), Χημεία ιατρικών επιστημών, Εκδόσεις Κυριακίδης, ISBN: 9789605990121. • Σπηλιόπουλος, Ιωακείμ (2008) Βασική οργανική χημεία, Σταμούλης Α.Ε., ISBN:978-960-351-751-1. ***English Bibliography:*** • Barrett-Hill, Florence (2009), Cosmetic Chemistry, Virtual Beauty Corporation, New Zealand, ISBN: 9780473124670. • Voet, Donald (2006), Fundamentals of biochemistry, Wiley, New York, ISBN: 0-471-21495-7. • Housecroft, Catherine E (2006), Chemistry: An introduction to organic, inorganic, and physical chemistry, Pearson Prentice Hall, Harlow, England, ISBN: 0-13-1257567-4. • Patrick, Graham L. (2005), An Introduction to Medicinal Chemistry, Oxford University Press, Oxford, ISBN: 0-19927500-9. • Patrick, Graham (2017), Organic chemistry, Oxford Univercity press, ISBN: 9780198759775.

	• McMurry, John (2010), Fundamentals of general, organic, and biological chemistry, Pearson Prentice Hall, Upper Saddle River, NJ, ISBN: 978-0-13-815228-4. • Graham, Patrick (2017) Organic Chemistry: a very short introduction, Oxford University Press, ISBN: 978-0198759775.
Assessment	• Class Participation 10% • Assignments / Projects/ Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

9.

Course Title	Introduction to Microbiology				
Course Code	MEDI125				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	1st Year/ 2st Semester				
Teacher's Name	Dr. Sarris Dimitrios				
ECTS	4	Lectures / week	1	Laboratories / week	1
Course Purpose and Objectives	The aim of the course is to introduce students to the basic principles of Microbiology with specific focus on aspects of Microbiology that affect humans.				
Learning Outcomes	By the end of the course, students are expected to: • Understand the structure and classification of micro-organisms; • Understand the basic theory of microscopy and stains used in microbiology; • Know the basic principles of the physiology of pathogenic microorganisms; • Understand the concept of immunization; • Understand the scientific names and characteristics of the major micro-organisms; • Able to discuss about pathogenic microorganisms and the transmission of infectious diseases; • Able to discuss the main differences between the different types of microorganisms. • Know the basic aspects of microbial ecology, as well as food, industrial and medical microbiology. • Develop the basic laboratory techniques necessary to identify microorganisms, through microscopy observation.				
Prerequisites	None	Required	None		
Course Content	• Introduction, Object and History of Microbiology • Prokaryotic and eukaryotic cells • Classification, Morphology and Structure of Microorganisms • Physiology, Nutrition and Nutrition of Microorganisms (in general) • Colors - Gram stain • Reproduction of bacteria • Host-parasite relationship • Host defense - Immune system • Non-pathogenic micro-organisms • Symbiotic microorganisms • Pathogenic microorganisms • Physiological flora of the gastrointestinal tract • Natural flora of the genital system • Elements of the immune system • Inflammation • Phagocytosis • Antigens • Cellular immunity • Chemical immunity				

	• Antigen-antibody • Active and passive immunity • Interferons (IFN) • Clinical Microbiology - Laboratory diagnosis of microbial infections • Gram positive • Staphylococcus • Streptococcus • Listeria • Bacillus • Corynebacterium • Neisseria • Gram negative bacteria • Haemophiles • Enterobacteriaceae • Vibrios • Helicobacter pylori • Mycobacteria and related microorganisms • Other Gram negative bacteria • Anaerobic bacteria • Spirochaetae • Legionella • Chlamydia • Rickettsia • Fungi • Parasites • Protozoa • Helminths • Antimicrobial therapies and chemotherapeutic agents • Genetic microbes and resistance to antibiotics • Viruses – Bacteriophage • Viruses - Viral infections • Aquatic Ecology • Terrestrial Ecology • Industrial Microbiology • Food Microbiology • Medical Microbiology <u>Laboratory Exercises:</u> 1] Laboratory Safety, Microscopy, Aseptic Technique 2] Microscopy lab courses in order to observe and discuss various microorganisms on slides: Types of Bacteria, Penicillium, W. M., Aspergilus, W. M., Rhizopus, W.M., Actinomyces, W. M., Chlamydomonas, W. M., Closterium Sp, W. M.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit and individual microscopy laboratory exercises.
Bibliography	***Greek Bibliography:*** • Συλλογικό έργο (2018), Εγχειρίδιο κλινικής μικροβιολογίας, University Studio Press, ISBN 978-960-12-2391-9.

	• Καγκούνη-Κύρτσου, Αμαλία Δ. (2012) Γενική μικροβιολογία, Σταμούλη Α.Ε., ISBN:978-960-351-904-1. • Καλκάνη-Μπουσιάκου Δρ. Ελένη (2006), Γενική Μικροβιολογία, Εκδόσεις Έλλην, ISBN: 960-286-899-6. • Μαυρίδου, Αθηνά Θ. (2012), Γενική μικροβιολογία, Εκδόσεις Πασχαλίδη, ISBN: 9789604891634. ***English Bibliography:*** • Norman Robert I. (2007), Flesh and Bones of Medical Cell Biology, Publisher Mosby, ISBN: 9780723433675. • Alberts Bruce (2014), Essential Cell Biology, 4th edition, Publisher Garland Science, ISBN: 9780815344551.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Laboratory Exercises 10% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

10.

Course Title	Basic Principles of Management				
Course Code	MGMT110				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of this course is to introduce the students to the different management concepts, including the basic principles of decision making, planning and control.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to understand: • The managerial process and the basic functions of management within an organization • The organizational structure and culture • The impact that the environmental context has on management • The essence and meaning of Corporate Social Responsibility (CSR) • Planning and decision making • Communication, its nature and informal channels of communication within the organization • Techniques for the decrease in employee resistance during periods of change				
Prerequisites	None	Required	None		
Course Content	• Managers and management • Managerial environment • Basic principles in the decision making process • Organizational culture and structure • Basic principles of behavior • Understanding and formation of teams and groups • Employee motivation and rewards • Leadership and trust • Communication and interpersonal skills • Basic principles of control • The basic functions of management				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Kinicki, Williams (2017), Διοίκηση επιχειρήσεων: Μια πρακτική εισαγωγή, Επίκεντρο, ISBN: 9789604587025. • Πετρίδου, Ευγενία (2016), Διοίκηση – μάνατζμεντ: Μια εισαγωγική προσέγγιση, Εκδόσεις Σοφία, ISBN: 9789606706486. • Παπαλεξανδρή, Νάνσυ (2016), Διοίκηση ανθρώπινου δυναμικού, Εκδόσεις Ε. Μπένου, ISBN: 9789603591245.				

	• Dessler, Gary (2015), Διοίκηση ανθρώπινου δυναμικού: Βασικές έννοιες και σύγχρονες τάσεις, Εκδόσεις Κριτική, ISBN: 9789605860769. • Πολύζος, Νικόλαος Μ. (2014), Διοίκηση και οργάνωση υπηρεσιών υγείας, Εκδόσεις Κριτική, ISBN: 9789602189429. • Τζωρτζάκης, Κώστας & Τζωρτζάκη, Αλεξία-Μαίρη (2007), Οργάνωση & διοίκηση: Το μάνατζμεντ της νέας εποχής, Rosili, ISBN: 9789607745217. ***English Bibliography:*** • Lovelock, Christopher H. (2002), Principles of service marketing and management, Prentice Hall, ISBN: 0-13-040467-5. • Robbins, Stephen P. (2011), Fundamentals of Management, Prentice Hall, ISBN: 9780136109822. • Alexander, Keith (2005), Facilities management, Taylor & Francis, ISBN: 0-419-20580-2. • Bank, John (2000), The essence of total quality management, Financial Times Prentice Hall, ISBN: 0-13-573114-3. • Armstrong, Michael (2017), Armstrong's handbook of human resource management practice, Kogan Page, ISBN: 9780749474119.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

11.

Course Title	Greek and English Medical Terminology				
Course Code	MEDI114				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year/ 2nd Semester				
Teacher's Name	Papadopoulos Elias, M.D.				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to teach students both the Greek and English medical terminology and to develop their oral and written use skills so that they can understand and explain medical terminologies and situations which are encountered in the medical environment. Emphasis is placed upon word roots, suffixes, prefixes, abbreviations, symbols, anatomical terms, and terms associated with the human body. This course also stresses the proper pronunciation, spelling, and usage of medical terminology.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Understand the importance of medical Greek and English terminology • Understand and explain the main scientific vocabulary related to the anatomy of the human body, pathology of common diseases, aseptic procedures, the first aid department, the hospital chambers, • Name word roots, combining forms, prefixes and suffixes commonly used in health sciences. • Provide effective and correct scientific communication in Greek and English on issues related to pharmaceutical practiceWrite selected common medical abbreviations and symbols used by medical and pharmacy specialties.				
Prerequisites	None	Required	None		
Course Content	Introduction to the written and spoken medical language. The prefixes and suffixes for various medical and pharmacy terms. The root of words associated with medical terms. Spellings and definition of medical Terms, in Greek and in English associated with the: • Respiratory system • Cardiovascular system • Digestive system • Nervous system • Endocrine system • Reproductive system • Urinary system • Diabetes • Cancer • Bones • Skin, Eye, Ear • Categories of pharmaceuticals • Pharmacodynamics • Pharmacokinetics				

	Instructions for use and general information on pharmaceuticals (patient information leaflet). Interpretation of medical symbols and abbreviations.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, diagrams and tables, guided discussions with students' active participation, individual and teamwork on the part of students, and the use of various supervisory tools to teach of unity.
Bibliography	***Greek Bibliography:*** • Πανουτσόπουλος, Γεώργιος Ι. (2016) Αγγλική ορολογία για επιστήμονες υγείας, Δίσιγμα, ISBN: 978-960-9495-93-6. • Κουσουρής, Παύλος (2014) Μέγα σύγχρονο γερμανοελληνικό λεξικό ιατρικής ορολογίας, Αγγελάκη Εκδόσεις , ISBN: 978-618-5011-66-6. • Αποστολίδης, Πάνος Δ. (2010), Ιπποκρατική ιατρική ορολογία, Παρασκήνιο, ISBN: 978-960-8342-85-9 • Davey, Patrick (2006), Παθολογία με μια Ματιά, Επιστημονικές Εκδόσεις Παρισιάνου Α.Ε., Αθήνα, ISBN: 960-394-399-1. ***English Bibliography:*** • Virginia Evans, Jenny Dooley, Trang M. Tran, M.D., (2012), Career Paths: Medical Express Publishing. • Gylys, Barbara A. (2011), Medical terminology express: A short-course approach by body system, F.A. Davis Company, ISBN: 9780803626096. • Frucht, Suzanne S. (2017) Medical terminology: get connected, Pearson, ISBN: 9780134318134.
Assessment	• Class Participation 10% • Assignments / Projects/ Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek and English

12.

Course Title	Elements of Biochemistry				
Course Code	CHEM120				
Course Type	Theoretical and Laboratory				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Miliotou Androulla				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	The aim of this course is to introduce the students to the main principles of biochemistry and identify the structure and function of proteins, enzymes, amino acids and nucleic acids as well as understand the different biological oxidation processes and the chemical pathways of metabolism.				
Learning Outcomes	By the end of the course, students are expected to: • Identify the structure and functions or proteins, amino acids, enzymes and lipids • Comprehend biological oxidation processes and the Krebs cycle. • Comprehend the metabolic pathways of carbohydrates, lipids and amino acids. • Identify the structure and metabolism of nucleic acids as well as the technology of recombinant DNA. • Comprehend which are the basic inorganic compounds in biological systems and how they are transferred within the human organism. • Apply basic laboratory techniques of qualitative and/or quantitative analysis of biomolecules.				
Prerequisites	BIOL104	Required	None		
Course Content	1. Structure and functions of proteins, enzymes, amino acids 2. Enzymes: classification and identification 3. Cytochromes and coenzymes 4. Biological oxidations and the Krebs cycle (respiratory chain) 5. Metabolism of carbohydrates: glycoproteins, catabolism of glucose, biosynthesis of glucose, gluconeogenesis, photosynthesis 6. Metabolism of lipids: phospholipids, glycolipids, cell membranes, lipoproteins and their removal from the blood, biosynthesis of the triglycerides and bile acids, biosynthesis and catabolism of lipid acids, synthesis and metabolism of the steroid hormones and vitamin D 7. Metabolism of the amino acids 8. Structure and metabolism of the nucleic acids: DNA and RNA biosynthesis, DNA replication, DNA transcription 9. Technology of recombinant DNA 10. Inorganic compounds in biological systems: water, transfer of water and inorganic ions through membranes, sodium and potassium, calcium, iron, zinc and acid-base balance of the human organism <u>Laboratory Exercises:</u> 1] Quantification of Bradford Protein Concentration 2] Acid-based properties of amino acids 3] Detection reactions-qualitative amino acid analysis: reaction of ninhydrin, xanthoprotein, cysteine, arginine and tryptophan. 4] Isolation and identification of casein 5] Kinetics of Enzyme Reactions a. Conversion of pNPP to pNP by alkaline phosphatase				

	b. Construction of a standard absorption capillary of p-nitro-phenol in 400nm c. Effect of enzyme concentration on reaction rate d. Effect of substrate concentration on reaction rate 6] Determination of Lipid Concentration in blood. 7] Detection and extraction of fats from food 8] Carbohydrates: Chemical hydrolysis of sugars – Fehling Reagent 9] DNA/RNA electrophoresis (virtual lab): Preparation of agarose gel and electrophoresis of plasmid DNA.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, the use of a variety of visual and other teaching aids as required for the delivery of each unit. Lectures are accompanied with individual laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Γεωργάτσου, Ι.Γ. (2005), Εισαγωγή στη βιοχημεία, Γιαχούδη, ISBN: 960-7425-02-2. • Διαμαντίδης, Γρηγόρης Χρ. (2015), Εισαγωγή στη βιοχημεία, University Studio Press, ISBN: 9789601216249. • Καλογιάννης, Σταύρος (2018), Εισαγωγή στη βιοχημεία, Τζιόλα, ISBN 978-960-418-722-5. • Συλλογικό έργο(2017),Βιοχημεία, Πανεπιστημιακές εκδόσεις Κρήτης, ISBN: 978-960-524-495-8. ***English Bibliography:*** • Champe, Pamela C. (2005), Biochemistry: Lippincotts' illustrated reviews, Lippincott Williams & Wilkins, ISBN: 0-7817-2265-9. • Gaw, Allan (2013), Clinical biochemistry, Churchill Livingstone, ISBN 9780702051791. • Voet, Donald (2006), Fundamentals of biochemistry, Wiley, ISBN: 0-471-21495-7. • Papachristodoulou, Despo (2014), Biochemistry & molecular biology, Oxford University Press, ISBN: 9780199609499. • Champe, Pamela C. (2005), Biochemistry, Lippincott Williams & Wilkins, Philadelphia, ISBN: 0-7817-2265-9. • Gaw, Allan (2013), Clinical biochemistry, Churchill Livingstone, ISBN: 9780702051791.
Assessment	• Class Participation 10% • Assignments / Projects 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

13.

Course Title	Introduction to Statistics/Biostatistics				
Course Code	STAT104				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	1st Year/ 2nd Semester				
Teacher's Name	Demetriou Andrea				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of the course is to convey to the students the elementary parameters which are elated to the importance and value of the statistical processing of research results and to the basic principles of biostatistics.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Recognize the value and role of biostatistics in the analysis of research data • Expresses the concept of 'statistical significance'. • List basic statistical tests (methods) to control the statistical significance of research results and know the basic principles of their application. • Present published original scientific research work.				
Prerequisites	None	Required	None		
Course Content	• Biostatistics data • Meaning of statistical significance- levels of significance Test statistics (Student's t-test, x2 test, SPSS, etc.) • Examples: review and analysis of original research work • Presentation by students of published original research work • Students' work assignment				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Παπαγεωργίου, Έφη (2017), Βιοστατιστική και εφαρμογές, Εκδόσεις Νέων Τεχνολογιών, ISBN: 978-960-578-027-2. • Παρασκευή Θεοφίλου (2019), Εγχειρίδιο μεθοδολογίας έρευνας: Εισαγωγικός οδηγός στις μεθόδους έρευνας στις κοινωνικές επιστήμες και επιστήμες υγείας, Βήτα Ιατρικές Εκδόσεις, ISBN 978-960-452-285-9. • Γαλάνης, Πέτρος Α. (2017), Μεθοδολογία της έρευνας στις επιστήμες υγείας, Κριτική, ISBN 978-960-586-194-0. • Σαχίνη - Καρδάση, Α. (2004), Μεθοδολογία Έρευνας: Εφαρμογές στο χώρο της υγείας, ΒΗΤΑ Ιατρικές Εκδόσεις, ISBN: 960-7308-80-8. • Μερακλή, Βάσος (2012), Οδηγός για τη συγγραφή επιστημονικής εργασίας, KES College. ***English Bibliography:*** • Papachristodoulou, Despo (2014), Biochemistry and Molecular Biology, 5th edition, Oxford University Press, ISBN: 978-0199609499.				

	• Bell, Judith (2014) Doing your research project: a guide for first-time researchers,6th revised edition, Open University Press, ISBN: 978-0335264469. • O' Leary, Zina (2017) The essentials guide to doing your research project, 3rd edition, Sage Publications, ISBN: 978- 1473952089.
Assessment	• Class Participation 10% • Assignments / Projects/ Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

14.

Course Title	Physiology II				
Course Code	MEDI207				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	2nd Year/ 3rd Semester				
Teacher's Name	Papadopoulos Elias, M.D.				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	The aim of this course is to familiarize the students with the main elements of physiology of the lymphatic, respiratory, nervous, endocrine, urinary and genital (reproductive) systems in the human body. The concepts of metabolism and the physiology of human sensory organs are also addressed.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Outline and describe the basic elements of human metabolism and homeostasis; • Describe the main processes of the physiology of the lymphatic system in the human body; • Describe the main processes of the physiology of the respiratory system in the human body; • Describe the main processes of physiology of the nervous, urinary, reproductive, endocrine and sensory organs in the human body; • Describe the main processes of the urinary system physiology in the human body; • Describe the main processes of the reproductive system physiology in the human body; • Describe the main processes of physiology of sensory organs in the human body; • Describe the main processes of physiology of the endocrine system in the human body. • Able to illustrate functional characteristics of organ systems discussed in lecture and to be provided with direct experience in microscopy observation, regarding the respiratory, endocrine, urinary, reproductive, nervous systems, as well as the organs of special sensation.				
Prerequisites	MEDI102, MEDI121	Required	None		
Course Content	1. Metabolism • Metabolism of carbohydrates • Metabolism of proteins • Maintaining body temperature 2. The lymphatic system and spleen. 3. The Respiratory System/Respiratory routes 4. The lungs • The physiology of breathing • Rhythm and control of breathing 5. The endocrine system • Pituitary gland • The thyroid gland • Parathyroid glands • Adrenal glands • Pancreas (exocrine and endocrine fate)				

	6. The skin • Skin functions 7. The urinary system • Kidney function 8. The organs of the reproductive system • Female reproductive organs • The mammary glands • The urogenital tract in the male • Playback 9. The nervous system • Cerebrospinal nervous system (CNS and PNS) • The Autonomic Nervous System (Sympathetic and Parasympathetic) 10. Organs of special sensation • Olfaction -sense of smell • Eye - Vision • Ear - Hearing • Skin - Touch, pressure, pain • Flavors – Taste <u>Laboratory Exercises:</u> 1] Interactive DVD with the Respiratory system and microscopy Laboratory: Observation of Lung 2] Microscopy Laboratory: Endocrine System Pancreas Gland Sec and Thyroid gland. 3] Interactive DVD for Urinary system Glomerular filtration, Simulation of urine formation Microscopy Laboratory: Urinary System Observation of Kidney section of the cortex, Urethra, Eg.T. and Bladder 4] Microscopy Laboratory: Reproductive system Observation of Testis Sec and Ovary Cat Sec, Human Uterus horn, incision through ampoule, Transverse incision of the testicle, Sperm smear and prostate. 5] Microscopy Laboratory: Nervous System and Muscles Observation of Skeletal Muscle L. S, C. S., Cardiac Muscle Sec, Spinal Cord C. S., Motor Neurous W. M. and Smooth Muscle Teased Preparation W. M 6] Microscopy Laboratory: Organs of special sensation Observation of Skin from axillary glands and hair follicles, Scalp with hair follicles and sebaceous glands and Nail, Eg.T.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit as well as laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Guyton, Arthur C. (2017), Ιατρική φυσιολογία: Guyton and Hall, Παρισιάνου Α.Ε., ISBN 978-960-583-175-2. • Βαρσαμίδης, Κωνσταντίνος (2016) Φυσιολογία του ανθρώπου, UniversityStudioPress, Θεσσαλονίκη, ISBN: 978-960-12-2269-1. • Schmid, RobertF. (2010) Συνοπτική φυσιολογία του ανθρώπου, Εκδόσεις Π. Χ. Πασχαλίδης, ISBN: 978-960-489-078-1.

	• Χανίωτης, Φραγκίσκος Ι. (2009), Φυσιολογία, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN: 978-960-372-1239 • McGeown, J.G. (2009) Συνοπτική φυσιολογία του ανθρώπου, Ιατρικές Εκδόσεις Π. Χ. Πασχαλίδης, ISBN: 978-960-399-665-1. • Τσούνιας, Δημήτρης (2007) Στοιχεία ανατομίας και φυσιολογίας του ανθρώπου, Ιατρικές Εκδόσεις Λίτσας, ISBN: 978-960-372-114-7. • Hansen, John T. (2004), Άτλας βασικών ιατρικών επιστημών: Φυσιολογία του ανθρώπου, Ιατρικές εκδόσεις Π.Χ.Πασχαλίδης, Αθήνα, ISBN: 960-399-152-Χ. • Χατζημπούγιας, Ιωάννης (2003), Στοιχεία Ανατομικής του Ανθρώπου, 3η Έκδοση, GM Design, Αθήνα, ISBN: 960-7898-02-8. • Tortora, Gerard J. (2007), Φυσιολογία του ανθρώπινου σώματος, Έλλην, Τόμος Ά & Έ, ISBN: 9789602869536, ISBN: 9789602869170. ***English Bibliography:*** • Odya, Erin, Norris, Maggie A. (2017) Anatomy and physiology for dummies, 3rd edition, ISBN: 978-1119345235. • McKinley, Michael, O'Loughlin, Valerie, Bidle, Theresa (2016) Anatomy and Physiology: An integrated approach, McGraw- Hill Education, ISBN: 9781259255076. • Waugh, Anne (2010) Ross and Wilson anatomy and physiology in health and illness, Churchill Livingston, Edinbourgh, ISBN: 978-0-7020-3227-1. • Hall, John E. (2016) Glynton and Hall Textbook of Medical Physiology, 13th edition, Saunders, ISBN: 9781455770052. • Wood, Yvonne (2008) Anatomy and physiology: The essential study and revision guide for the write idea, Cambridge, ISBN: 9780955901102. • Tucker, Louise (2009) An introductory guide to Anatomy and Physiology, Ems publishing, London, ISBN: 9781903348284. • Hull, Ruth (2010) Anatomy and physiology: For beauty and comlementary therapies, The write idea, Cambridge, ISBN 978-0-9559011-2-6. • Connor, Jeanine (2006) Anatomy and physiology for therapists, Heinemann, Oxford, ISBN: 978-0-435449-40-7. • Guyton, Arthur C (2006) Textbook of Medical Physiology, Elsevier Saunders, Philadelphia, ISBN: 0-7216-0240-1. • Hall, John E. (2006) Guyton & Hall physiology review, Elsevier Saunders, Edinburgh, ISBN: 0-7216-8307-X.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Laboratory Exercises 10% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

15.

Course Title	Chemistry of Pharmaceutical and Natural Products				
Course Code	CHEM201				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Dr. Siafaka Panoraia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course to educate students of the basic chemical characteristics of substances used in pharmacy.				
Learning Outcomes	By the end of the course, students are expected to be able to: • List the main chemical characteristics of compound groups used in pharmacy; • know the theoretical basis of the principles of nuclear chemistry; • analyze the main properties and characteristics of trace elements; • Understand and explain the chemical basis of antibiotics, alkaloids, vitamins, drugs for digestive, nervous and circulatory disorders, analgesics and steroids; • List and describe the main chemical characteristics of natural products such as amino acids, peptides, proteins, sugars, terpenes, fats and nucleic acids.				
Prerequisites	None	Required	None		
Course Content	Antibiotics-Alkaloids-Vitamins Drugs for circulatory system diseases NSAIDs and analgesics Benzodiazepines and drugs that act on the nervous system Steroids Chemistry of Natural Products Nuclear Chemistry Elements Trace elements in human health				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Πουλή, Νικολας (2018), Μαθήματα φαρμακευτικής χημείας: Κατασταλνικά ΚΝΣ - ψυχοφάρμακα, αντιϊσταμινκά, βιταμίνες, αντιβακτηριακά φάρμακα, Παρισιάνου Α.Ε., ISBN 978-960-583-252-0. • Nahar, Lutfun (2015), Στοιχεία χημείας για φαρμακοποιούς: Γενική χημεία, οργανική χημεία και χημεία φυσικών προϊόντων, Παρισιάνου Α.Ε., ISBN 978-960-583-032-8. • Συλλογικό Όργανο, Clayden, Jonathan, Greeves, Nick,Warren, Stuart (2016) Οργανική χημεία, Utopia, Αθήνα, ISBN: 978-618-51732-0-3. • Μανουσάκης, Γεώργιος (2015) Χημεία Ιατρικών Επιστημών, Εκδόσεις Κυριακίδης, ISBN: 978-960-599-012-1 • Ρέκκας, Α.Ε., Κουρουνάκης, Π.Ν. (2015) Φαρμακευτική χημεία: φάρμακα που δρουν στο κεντρικό νευρικό σύστημα, Φωτεινή Χατζηπάντου, ISBN: 978-960-98594-7-9. • Γερονικάκη, Αθηνά (2013) Ορμόνες, φαρμακευτική χημεία, Ζυγός, ISBN: 978-960-8065-98-7.				

	• Κούρτης, Δημήτρης (2008) Οργανική χημεία: βασική θεωρία, χημικές αντιδράσεις, μηχανισμοί, SPIN, Αθήνα, ISBN: 978-960-8250-53-6. • Γεωργάτσος Ι. (2005), Εισαγωγή στη βιοχημεία, εκδ. Γιαχούδη, Θεσσαλονίκη, ISBN: 960-7425-02-2. • Μανουσάκης, Γεώργιος (2015), Χημεία ιατρικών επιστημών, Εκδόσεις Κυριακίδης, ISBN: 9789605990121. ***English Bibliography:*** • McMurry, John, Ballantine, David S. [etc] (2010), Fundamentals of general, organic, and biological chemistry, 6th edition, Pearson Prentice Hall, Upper Saddle River, NJ, ISBN: 978-0-13-815228-4. • Barrett-Hill, Florence (2009), Cosmetic Chemistry, Virtual Beauty Corporation, New Zealand, ISBN: 9780473124670. • Voet, Donald (2006), Fundamentals of biochemistry, Wiley, New York, ISBN: 0-471-21495-7. • Housecroft, Catherine E (2006), Chemistry: An introduction to organic, inorganic, and physical chemistry, Pearson Prentice Hall, Harlow, England, ISBN: 0-13-1257567-4. • Patrick, Graham L. (2005), An Introduction to Medicinal Chemistry, Oxford University Press, Oxford, ISBN: 0-19927500-9. • Champe, Pamela C. (2005), Biochemistry, Lippincott Williams & Wilkins, Philadelphia, ISBN: 0-7817-2265-9. • Gaw, Allan (2013), Clinical biochemistry, Churchill Livingstone, Edinburgh, ISBN: 9780702051791.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

16.

Course Title	Pharmacology I				
Course Code	PHRM210				
Course type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	2nd Year / 3rd Year				
Teacher's name	Miliotou Androulla				
ECTS	6	Lectures / week	2	Laboratories/ week	1
Course Purpose and Objectives	The aim of this course is to introduce the science of Pharmacology to the students, preparing them for future clinical practice. The students will get to know the various categories and mechanisms of action of medicines that are used for the management of inflammation, pain, basic diseases of the nervous, cardiovascular, digestive and respiratory system.				
Learning outcomes	By the end of the course, students are expected to: • Understand the basic principles of Pharmacology; • Know the medical use (mainly indications and mechanism of action) of drugs (active compounds) that act on the autonomic nervous system; • Know the medical use (mainly indications and mechanism of action) of drugs (active compounds) that act on the Central Nervous System (CNS); • Know medical use (mainly indications and mechanism of action) of drugs (active compounds) that act on the cardiovascular, renal and digestive system as well as, the main actions of vitamins. • Understand and execute basic aspects of pharmacological tests in the laboratory environment, regarding the mechanisms of blood coagulation and human platelets characteristics.				
Prerequisites	MEDI102, MEDI121	Required	None		
Course content	1. Basic principles of pharmacology: • Pharmacodynamics – effects of the drug on specific sites (receptors, second messengers, signaling mechanisms) • Routes of drug administration • Pharmacokinetics: Absorption, distribution, metabolism, and elimination • Half-life and bioavailability • Side effects and interactions 2. Drugs that act on the Autonomic Nervous system: • The Autonomic Nervous System • Cholinergic transmission: cholinorecepetor- activating and blocking drugs • Adrenergic transmission: Adrenoreceptor agonist and antagonist drugs 3. Drugs that act on the Central Nervous System: • Therapy of Parkinson's disease • Anxiolytics and Sedative-Hypnotic drugs • Antidepressant agents • Antipsychotic agents (Schizophrenia) • Opioid analgesics and antagonists • Medications for the management of epilepsy - antiseizure drugs • CNS stimulants • General Anaesthetics and local anaesthetics 4. Drugs that act on the Cardiovascular system:				

	• Drugs used in Heart failure • Agents used in cardiac Arrhythmias • Vasodilators and the treatment of Angina Pectoris • Antihypertensive agents • Drugs used to treat diseases of the blood (drugs used in disorders of coagulation, anticoagulants, antiplatelet agents, fibrinolytic drugs, drugs used in bleeding disorders, agents used in anemias) • Agents used in hyperlipidemia 5. Drugs that act on the renal system: • Diuretic agents 6. Drugs that act on the digestive system - gastrointestinal tract: • Proton pump inhibitors (PPIs) • H2-histamine receptor antagonists • Antacids • Antidiarrheal agents • Laxatives • Antiemetic agents • Vitamins 7. Pharmacogenetics-Pharmacogenomics <u>Laboratory Exercises:</u> 1] Mechanisms of Blood Coagulation: a. Prothrombin Time Evaluation b. Partial Thromboplastin Time Evaluation 2] Isolation of membranes from human platelets and measurement of total proteins
Teaching methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit as well as laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Τσιφτσόγλου, Αστέριος (2018), Επίτομη μοριακή και κλινική φαρμακολογία: Βασικές αρχές της δράσης των φαρμάκων, University Studio Press, ISBN 978-960-12-2394-0. • Αρτούρος Ισσέγιεκ (2016), Φαρμακολογία Ι, KES College. • Edmunds, MarilynW. (2003) Εισαγωγή στην κλινική φαρμακολογία, 3η έκδοση, Παρισιάνου Α.Ε., ISBN 9603941573. • Rang, H. P. & Dale, M. M. (2013) Φαρμακολογία, Παρισιάνου Α.Ε., ISBN: 9789603949237. • Ιατρικές Εκδόσεις Λίτσας (2011), Ιατροφαρμακευτικός Οδηγός, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN 978-9603721024. • Katzung, Bertram G. (2009), Βασική και κλινική φαρμακολογία, Αθήνα, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, ISBN: 978-960-399-816-7. • Μαρσέλος, Μάριος (2009), Ιατρική Φαρμακολογία: Ερωτήσεις και Απαντήσεις, Εκδόσεις Gutenberg, Αθήνα, ISBN: 9789600112955. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία Ι: Γενική φαρμακολογία, Λύχνος, Αθήνα, ISBN: 960-6607-28-3. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία ΙΙ: Ειδική φαρμακολογία, Λύχνος, Αθήνα, ISBN: 960-6607-29-1. • Mycek, MaryJ. &Harvey, RichardA. (2007), Φαρμακολογία, 3η έκδοση, Παρισιάνου, ISBN: 978-960-394-502-4.

	• Raffa, Robert B. (2007), Άτλας βασικών Ιατρικών Επιστημών: Φαρμακολογία, Αθήνα, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, ISBN 960-399-152-X. ***English Bibliography:*** • Wiffen, Philip, Mitchell, Marc, Snelling, Melanie, Stoner, Nicola (2017) Oxford handbook of Clinical Pharmacy, 3rd edition, OUP Oxford, ISBN: 978-0198735823. • Katzung, Bertram G., Trevor, Anthony I. (2007) Basic and Clinical Pharmacology, 13th edition, McGraw-Hill Education/Medical, ISBN: 9780071451536. • Roach, Sally S. (2008) Introductory clinical pharmacology, Lippincott Williams & Wilkins, Philadelphia, ISBN: 9780781775953. • Katzung, Bertram G. (2007) Basic and clinical pharmacology, Lange Medical Books/McGraw Hill, New York, ISBN: 9780071451536.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

17.

Course Title	Consumer behaviour				
Course Code	MRKT207				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Kyriakidou Stella				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of the course is for the students to understand the principles, definitions and theories of different behavioural sciences.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Acquire knowledge of the terminology, methods, trends and meanings of consumer behaviour; • Understand the fundamental issues related to the modern principles and theories of consumer behaviour both with regard to national and international marketing; • Know all the methods for customer satisfaction and detainment; Create the basis for further studies with regard to consumer behaviour.				
Prerequisites	None	Required	None		
Course Content	• Introduction to Consumer Behaviour: The study and research of consumer behaviour • The consumer decision making process: Elements that have to be included in the consumer decision making process and the examination of information regarding brand appraisal • Consumer perceptions and strategic marketing: Selective perception functions and perceptual mapping • Consumer understanding and involvement: product placing, marketing strategies and low to high consumer involvement • The design, measurement and change of trends: theories of adjustment and measurement of attitudes and the relationship between behaviour and attitude • Consumer demographic characteristics: The major demographic trends and methods of analyzing them for marketing purposes • Consumer psychographic characteristics: Life typologies and value systems • Market segmentation and product placement Consumer behaviour research: methodologies for data collection; the impact of culture and social classes; effect of groups and teams; situation effects; marketing communication and advertisement; customer satisfaction and detainment				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Solomon, Michael R. (2018), Συμπεριφορά καταναλωτή: Αγοράζοντας, έχοντας και ζώντας, Τζιόλα, ISBN 978-960-418-811-6.				

	• Μπάλτας, Γεώργιος, Παπασταθοπούλου, Πολίνα (2013) Συμπεριφορά καταναλωτή, 2η έκδοση, Εκδοτικός Οίκος Rosili, ISBN: 978-960-7745-30-9. • Μαλλιαρής, Πέτρος (2001) Εισαγωγή στο Μάρκετινγκ, Σταμούλη Α.Ε., ISBN: 9603513679. • Σιώμκος, Γεώργιος Ι. (2011), Συμπεριφορά Καταναλωτή και Στρατηγική Μάρκετινγκ, 3η έκδοση, Εκδόσεις Σταμούλη, Αθήνα, ISBN: 978-9603514565. • Δημητριάδης, Σέργιος (2010), Μάρκετινγκ: Αρχές, Στρατηγικές, Εφαρμογές, Rosili, Αθήνα, ISBN: 9789607745286. • Αλεξανδρής, Κωνσταντίνος (2016), Αρχές μάνατζμεντ και μάρκετινγκ: Οργανισμών και επιχειρήσεων αθλητισμού και αναψυχής, Αφοί Κυριακίδη Εκδόσεις Α.Ε., ISBN 978-960-602-106-0. ***English Bibliography:*** • Solomon, Michael R., Bamossy, Gary, [etc] (2016) Consumer Behavior: A European perspective, 6th edition, Pearson, ISBN: 978-1292116722. • Solomon R. Michael (2012), Consumer Behavior, Prentice Hall, 10th edition, ISBN: 9780132671842. • Schiffman G. Leon & Kanuk, Lazar Leslie (2010), Consumer Behavior, 10th edition, Prentice Hall, ISBN: 0137006705.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

18.

Course Title	Elements of Pharmaceutical Technology				
Course Code	PHRM213				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year/Semester	2nd Year/ 3rd Semester				
Teacher's Name	Dr. Siafaka Panoraia				
ECTS	4	Lectures/week	1	Laboratories/week	1
Course Purpose and Objectives	This course aims to introduce the principles of pharmaceutical technology to the students. Herein, the various pharmaceutical formulations used in pharmaceutical industry and practice will be discussed. The students will learn and understand the basic preparation and characterization methods applied in pharmaceutical technology. This course will orient the students in order to efficiently comprehend the various categories of dosage forms which they might cross during their postgraduate career.				
Learning Outcomes	By the end of the course, the students are expected to be able to: • Categorize, comprehend, and describe the various pharmaceutical formulations • Understand the correct application of the dosage forms • Point out the advantages and disadvantages of each formulation • Categorize the formulations according to their route of administration • Use correctly the basic pharmaceutical and technological equipment • Recognize the correct terminology and abbreviations used in pharmaceutical technology • Learn the most -state of the art- technologies applied in laboratories and Pharmaceutical Industry				
Prerequisites	None		Required		None
Course Content	1. Definition and object of pharmaceutical technology, stages of drug development. Drug material, pharmaceutical dosage form, pharmaceutical preparation. Categorization of dosage forms. Active Pharmaceutical Ingredients (APIs) and excipients used in the preparation of dosage forms. 2. Biopharmaceutical aspects of formulations. Amorphous-crystalline drugs and their solubility. Relative and absolute bioavailability-Bioequivalence of generics. Biopharmaceutical Classification System (BCS) of drugs. Importance of drug concentration in the pharmaceutical formulation. 3. Pre-formulation and formulation stages in the design of dosage forms. Application of factorial design and artificial neural networks. Research, development, and production. Patents in the pharmaceutical industry. Brand name drugs and generics. Basic apparatus used in Pharmaceutical Industry. 4. Solid dosage forms. Basic Properties of solid dosage forms. Constituents, formulation, properties, filling of capsules-oral powders. 5. Tablets: types, excipients, applications. Methods for the development of controlled release oral solid dosage forms. 6. Semisolid dosage forms: creams, ointments, gels for both pharmaceutical and cosmetic use and their characteristics.				

	7. Suspensions and Emulsions. Preparation, application of emulsifying agents, oil-in-water, water-in-oil and modified emulsions. 8. Liquid dosage forms: Syrups -Elixirs- mouthwashes and natural plants extracts. Oral Solutions and Auxiliary substances. Production of pharmaceutical solutions. 9. Pharmaceutical preparations for the respiratory system (by inhalation), liquids-solutions (by nebulization), solids-fine powders (by special applicators). 10. Transdermal drug delivery systems, properties, and enhancement of transdermal absorption. 11. Otic and nasal formulations. Production methods and applications. 12. Rectal and vaginal formulations. Production methods and applications. 13. Sterile dosage forms. Antimicrobial substances and preservatives. Sterilization of pharmaceutical products. Ophthalmic and Injectable products as well as their properties and uses. 14. Novel drug delivery systems for topical, brain, nasal and transdermal administration (wound dressings, in situ gels, nanotechnology-based formulations etc). <u>Laboratory Exercises:</u> 1] Preparation of various drug concentrations of oral solutions 2] Preparation of oral powders 3] Suppositories production and tablets filling 4] Preparation of gels based on natural plant extracts (i.e. green tea) and measurement of spreadability 5] Preparation of w/o and o/w emulsions i.e. with cinnamon oil and ascorbic acid, respectively 6] Preparation of syrup and mouthwashes 7] Preparation of ocular suspensions 8] Formulation of otic and/or nasal preparations 9] Preparation of wound dressings based on natural polymers 10] Formulation of alginate gel beads for essential oil entrapment 11] pH measurement, stability studies based on mass loss, appearance and pH differentiation, swelling ability study
Teaching Methodology	Teaching methodology includes lectures in the form of presentations, use of board, individual and team work. Lecture notes and presentations will be available in the web and they will be updated every year to use in combination with the textbooks. Lectures are accompanied with individual laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Perrie, Yvonne (2016). Φαρμακευτική τεχνολογία : Μεταφορά και στοχευμένη δράση φαρμάκων, Παρισιάνου Α.Ε., ISBN: 978-960-583-091-5 • Μπαλτζίδης Αναστάσιος (2012) Στοιχεία Φαρμακευτικής Τεχνολογίας, KES COLLEGE • Παπαιωάννου, Γεώργιος Θ. (2007) Φαρμακευτική Τεχνολογία Ι, Παρισιάνου Α.Ε., ISBN: 978-960-394-487-4 ***English Bibliography:*** • Rowe, Raymond C., Sheskey, Paul J. and Owen, Siân C (2006) Handbook of Pharmaceutical Excipients. Pharmaceutical Press, ISBN:978-1582120584

	• Macheras, Panos (2006) Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics: Homogeneous and Heterogeneous Approaches (Interdisciplinary Applied Mathematics), Springer, New York, ISBN : 0387281789 • Pandit, Nita K. (2007) Introduction to the Pharmaceutical Sciences, Publisher Lippincott Williams and Wilkins, ISBN: 9780781744782 • Jacobs, Terry (2005) Good Design Practices for GMP Pharmaceutical Facilities (Drugs and the Pharmaceutical Sciences S.), Taylor and Francis, ISBN:0824754638 • Siafaka, PI et al.(2016) Surface modified multifunctional and stimuli responsive nanoparticles for drug targeting: current status and uses, International Journal of Molecular sciences 17 (9), 1440 • Siafaka, PI. et al. (2020) Current update on nanoplatforms as therapeutic and diagnostic tools: a review for the materials used as nanotheranostics and imaging modalities Asian Journal of Pharmaceutical Sciences
Assessment	• Class Participation 10% • Assignments / Projects 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

19.

Course Title	Medical Devices				
Course Code	PHRM221				
Course Type	Theoretical and Practical				
Level	Bachelor				
Year / Semester	2nd Year/ 3rd Semester				
Teacher's Name	Miliotou Androulla				
ECTS	2	Lectures / week	0.5	Laboratories / week	0.5
Course Purpose and Objectives	The aim of the course is to provide necessary understanding for the available categories of the medical devices and cover the basic information on their correct use and operation.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Know how each product works; • Explain the use of various types of medical aids; • Categorize a medical device; • Explain the differences in precision measurements in each category; • Be aware of the basic provisions of the current legislation. • Demonstrate ability to use basic medical devices and take measures				
Prerequisites	None	Required	None		
Course Content	• Introduction to medical devices and history of medical technology. • Essential legislative provisions in force in Europe (CE) for medical devices. • Thermometers: types of thermometers, use and precision in measurements. • Stethoscopes: stethoscope articles, use. • Hearing aid device operating mode and suitability. • Otoscopes: • Blood pressure monitors: sphygmomanometers, use and measurement precision. • Types of lipometers, use and precision in measurements. • Sugar metering devices: categories and mode of operation, use and precision in measurements. • Oximeters: types of oximeters, use and mode of operation. • Spirometers: categories, usage and mode of operation. • Nebulizers: categories, use and mode of operation. • Defibrillators: categories, use, fitness, and mode of operation. • Drug delivery devices • First aid consumables				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Πλούμης, Θωμάς (2002), Τεχνολογία οργάνων ιατρικών εργαστηρίων: Βασικές αρχές, University Studio Press, ISBN 960-12-1080-6. • Σεργιάδης, Γεώργιος Δ. (2009), Βιοϊατρική τεχνολογία, University Studio Press, ISBN 978-960-12-1774-1. • Αγγελής, Γεώργιος (2017), Μικροβιολογία και μικροβιακή τεχνολογία, Unibooks, ISBN 978-618-5304-12-6				

	English Bibliography: • Robert R. Harr (2019), Medical Laboratory Science Review, 5th Edition, F.A. Davis Company, ISBN: 978-0803668270.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Practical 10% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

20.

Course Title	Basic Principles of Accounting				
Course Code	ACCT201				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Demetriou Demetris				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The objectives of the Basic Principles of Accounting course is to introduce students to the basic principles of accounting, its uses and its various applications.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Apply accounting equity to accounting transactions. • Open accounts for trading and to prepare the balance sheet. • Make corrections and closing entries using spreadsheets. • Prepare and interpret financial statements with a predetermined profit. • Enter accounting records, to calculate the cost of purchases and to prepare financial statements. • Record trade transactions				
Prerequisites	None	Required	None		
Course Content	An introductory course in accounting, which includes accounting areas, financial accounting, types of businesses, individual business, general partnerships, limited partnerships, Companies LTD.-S.A., Audit – accounting rules, categorization of rules, limit conversions, measurement conversions, moral conversions, assets/property, resources and obligations, accounting reports-references, the concept of double-entry bookkeeping, measurement and reporting of financial position revenue and expense report, revenue expenses with real key example, profit and loss account / income reporting, recognition of costs, profit-loss calculation, a real example, balance sheet, categorization of debts / claims, the form of the balance sheet, calculation processes for fixed assets and available – for –sale assets-depreciation, balance sheet based on a real example, problems/weaknesses in financial reporting, numbers, classification of economic ratios / indicators, ratios-performance indicators.				
Teaching Methodology	Lectures, Demonstration, Individual assignments or Teamwork.				
Bibliography	***Greek Bibliography:*** • Καλαμαράς, Νικόλαος Διον. (2013), Γενική λογιστική, Εκδόσεις Αθ. Σταμούλης, ISBN: 9789603519218. • Καρδακάρης, Κωνσταντίνος Ν. (2008), Γενική λογιστική, Ίων, Αθήνα, ISBN: 978-960-286-991-8. ***English Bibliography*:** • Dyson, John R. (2010), Accounting for non-accounting students, Financial Times Prentice Hall, Harlow, England, ISBN: 978-0-273-72297-7. • Garrison, Ray 2006), Managerial Accounting, McGraw Hill, New York, ISBN: 0-07-283494-3.				

	• Charles T. Horngren, Walter T. Harrison (2007), Accounting ch 1-13, 7th Edition, Prentice Hall, ISBN: 978-0132249959. • Sheila Robison (2017), LCCI Bookkeeping Level 1, ISBN: 978-1-78447-663-2. • Steve Astbury (2017), LCCI Bookkeeping and Accounting Level 2, ISBN: 978-1-78447-664-9. • Samantha Hannigan (2017), LCCI Accounting Level 3, ISBN: 978-1-78449-130-7. • Williams, Jan R. (2015), Financial & managerial accounting, McGraw Hill Education, ISBN: 9781259255830.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

21.

Course title	Principles of Biopharmaceutics and Pharmacokinetics				
Course code	PHRM209				
Course type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's name	Dr. Siafaka Panoraia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	This course is aiming to provide students with the basic medical and scientific knowledge for the various principles of Biopharmaceutics and Pharmacokinetics, as well as, the basic guidelines involved in the bioequivalence studies of generic drugs.				
Learning outcomes	By the end of the course, students are expected to be able to: • Understand the importance and contribution of *biopharmaceutics and pharmacokinetics* to improve drug *therapy;* • differentiate the basic parameters involved in absorption, distribution, metabolism and elimination of drugs; • explain bioavailability and use it in a practical manner (calculation of drug doses and route of administration of drugs); • be familiar with the theory of bioequivalence of generic drugs.				
Prerequisites	None	Required	None		
Course content	• Dissolution of drugs • Drug absorption • Plasma protein binding • Drug metabolism • Drug elimination • Pharmacokinetic models – Introduction – General principles • 1-compartment model • 2-compartment model • Bioequivalence studies of generic drugs				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Aldersey-Williams, Huge (2017) Ανατομίες: το ανθρώπινο σώμα, τα μέρη του και οι ιστορίες που διηγούνται, Ροπή, ISBN:978-618-5289-07-2. • Edmunds, Marilyn W. (2003) Εισαγωγή στην κλινική φαρμακολογία, 3η έκδοση, Παρισιάνου Α.Ε., ISBN 9603941573. • Rang, H. P. & Dale, M. M. (2013) Φαρμακολογία, Παρισιάνου Α.Ε., ISBN: 9789603949237. • Βιζιριανάκης, Ιωάννης Σ. (2016) Κλινική Φαρμακοκινητική: βασικές αρχές της φαρμακευτικής αγωγής στην κλινική πράξη, Σταύρος Αντ. Σαρτίνας, ISBN: 978-618-5161-29-3. • Ιατρικές Εκδόσεις Λίτσας (2011), Ιατροφαρμακευτικός Οδηγός, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN 978-9603721024.				

	• Μαρσέλος, Μάριος (2009), Ιατρική Φαρμακολογία: Ερωτήσεις και Απαντήσεις, Εκδόσεις Gutenberg, Αθήνα, ISBN: 9789600112955. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία Ι: Γενική φαρμακολογία, Λύχνος, Αθήνα, ISBN: 960-6607-28-3. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία ΙΙ: Ειδική φαρμακολογία, Λύχνος, Αθήνα,ISBN: 960-6607-29-1. ***English Bibliography:*** • Wiffen, Philip, Mitchell, Marc, Snelling, Melanie, Stoner, Nicola (2017) Oxford handbook of Clinical Pharmacy, 3rd edition, OUP Oxford, ISBN: 978-0198735823. • Katzung, Bertram G. (2007) Basic and clinical pharmacology, Lange Medical Books/McGraw Hill, New York, ISBN: 9780071451536. • Roach, Sally S. (2008) Introductory clinical pharmacology, Lippincott Williams & Wilkins, Philadelphia, ISBN: 9780781775953. • Katzung, Bertram G. (2007), Basic and clinical pharmacology, Lange Medical Books/McGraw Hill, New York, ISBN: 9780071451536. • Goodman, Louis (2006), Goodman & Gilman's the pharmacological basis of therapeutics, McGraw-Hill, New York, ISBN: 0-07-142280-3.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

22.

Course Title	Pharmacology II				
Course Code	PHRM217				
Course Type	Theoretical and Laboratory				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's name	Filippou Elli				
ECTS	6	Lectures / week	2	Laboratories/ week	1
Course Purpose and Objectives	The course aims to introduce students to the science of Pharmacology, preparing them for future clinical practice. Students will get to know the various categories and actions of medicines used for the management of inflammation, pain, basic diseases of the nervous, cardiovascular, digestive and respiratory system.				
Learning outcomes	By the end of the course, students are expected to: • Know of the medical use (mainly indications and mechanism of action) of drugs (active compounds) that act on the endocrine and respiratory system; • Know of the medical use (mainly indications and mechanism of action) of chemotherapeutic and cancer chemotherapeutical drugs as well as, immunosuppressive agents (active compounds); • Know of the medical use (mainly indications and mechanism of action) of analgesic and anti-inflammatory drugs (active compounds); • Know of the medical use (mainly indications and mechanism of action) of drugs used in the management of Alzheimer's disease, erectile dysfunction, osteoporosis, migraine and obesity. • Understand and execute basic aspects of pharmacological tests in the laboratory environment, regarding diabetes diagnostic simulation and the susceptibility and resistance of microorganisms to antibiotics.				
Prerequisites	MEDI102, MEDI121, MEDI207, PHRM210	Required	None		
Course content	1. Endocrine drugs: • Pituitary hormones • Thyroid and Antithyroid drugs • Insulin and Antidiabetic drugs • Steroid hormones (gonadal hormones, corticosteroids) 2. Chemotherapeutic agents: • Principles of antimicrobial agents • Folic acid inhibitors • Inhibitors of cell wall synthesis • Inhibitors of protein synthesis • Quinolones και urinary tract infection medications/antiseptics • Antimycobacterial drugs • Antifungal agents • Antiprotozoal drugs • Anthelmintic drugs • Antiviral agents 3. Drugs that act on the respirator system: • 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)				

	4. Analgesic and anti-inflammatory drugs: • Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) • Non-narcotic analgesics • Drugs used in the management of arthritis • Drugs used in the management of gout 5. Immunosuppressive agents 6. Cancer Chemotherapy 7. Drugs used in the management of: • Alzheimer's disease • Erectile dysfunction • Osteoporosis • Migraine • Obesity <u>Laboratory Exercises:</u> 1] Simulated diabetes testing experiment using artificially manipulated livestock blood (commercially available defibrinated bovine blood). Glucose level determination in blood. 2] Method for determination of susceptibility and resistance of microorganisms to antibiotics: Antibiogram – Method of antibiotic tablets and evaluation of antibiotic resistance.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit as well as laboratory exercises, carried out in the laboratory of the college.
Bibliography	***Greek Bibliography:*** • Τσιφτσόγλου, Αστέριος (2018), Επίτομη μοριακή και κλινική φαρμακολογία: Βασικές αρχές της δράσης των φαρμάκων, University Studio Press, ISBN 978-960-12-2394-0. • Αρτούρος Ισσέγιεκ (2016), Φαρμακολογία ΙΙ, KES College. • Edmunds, Marilyn W. (2003) Εισαγωγή στην κλινική φαρμακολογία, 3η έκδοση, Παρισιάνου Α.Ε., ISBN 9603941573. • Rang, H. P. & Dale, M. M. (2013) Φαρμακολογία, Παρισιάνου Α.Ε., ISBN: 9789603949237. • Ιατρικές Εκδόσεις Λίτσας (2011), Ιατροφαρμακευτικός Οδηγός, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN 978-9603721024. • Katzung, Bertram G. (2009), Βασική και κλινική φαρμακολογία, Αθήνα, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, ISBN: 978-960-399-816-7. • Μαρσέλος, Μάριος (2009), Ιατρική Φαρμακολογία: Ερωτήσεις και Απαντήσεις, Εκδόσεις Gutenberg, Αθήνα, ISBN: 9789600112955. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία Ι: Γενική φαρμακολογία, Λύχνος, Αθήνα, ISBN: 960-6607-28-3. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία ΙΙ: Ειδική φαρμακολογία, Λύχνος, Αθήνα, ISBN: 960-6607-29-1. • Mycek, MaryJ. &Harvey, RichardA. (2007), Φαρμακολογία, 3η έκδοση, Παρισιάνου, ISBN: 978-960-394-502-4. • Raffa, Robert B. (2007), Άτλας βασικών Ιατρικών Επιστημών: Φαρμακολογία, Αθήνα, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, ISBN 960-399-152-X.

	English Bibliography: • Wiffen, Philip, Mitchell, Marc, Snelling, Melanie, Stoner, Nicola (2017) Oxford handbook of Clinical Pharmacy, 3rd edition, OUP Oxford, ISBN: 978-0198735823. • Katzung, Bertram G., Trevor, Anthony I. (2007) Basic and Clinical Pharmacology, McGraw-Hill Education/Medical, ISBN: 9780071451536. • Roach, Sally S. (2008) Introductory clinical pharmacology, Lippincott Williams & Wilkins, Philadelphia, ISBN: 9780781775953. • Katzung, Bertram G. (2007) Basic and clinical pharmacology, Lange Medical Books/McGraw Hill, New York, ISBN: 9780071451536.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 10% • Laboratory Exercises 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

23.

Course Title	Pharmaceutical Marketing				
Course Code	MRKT214				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's Name	Savvidou Katerina				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to prepare students to apply the principles of marketing within the Pharmaceutical field.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Understand the importance and uniqueness of marketing within the pharmaceutical context; • Understand the decision making process with regard to the creation and purchase of prescriptions; • Understand the segmentation process within the pharmaceutical context; • Understand the targeting strategies of pharmaceutical companies; • Appreciate the importance of the communication and relationship established between doctors and medical representatives. • The nature of the pharmaceutical and device industry. • Product marketing and sales techniques.				
Prerequisites	MRKT100, MRKT207	Required	None		
Course Content	• Introduction to Marketing • Introduction to Pharmaceutical Marketing • Segmentation of Pharmaceutical market • Marketing mix in the pharmaceutical market • Consumer behavior for medicinal products • Promotion of medicinal products • Pharmaceutical market and factors affecting the prescription of medicinal products • Strategic marketing in pharmaceutical market				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Μαλλιαρής, Πέτρος (2001) Εισαγωγή στο Μάρκετινγκ, Σταμούλη Α.Ε., Αθήνα, ISBN: 9603513679. • Καζάζη, Νίκος (2011), Pharma Marketing: Φαρμακευτικό μάρκετινγκ θεωρία, πρακτική, δεοντολογία, Εκδόσεις Σταμούλη, ISBN 9603518716. • Δημητριάδης, Σέργιος (2010), Μάρκετινγκ: Αρχές, Στρατηγικές, Εφαρμογές, Rosili, Αθήνα, ISBN: 9789607745286. • Bird, Tom (2016), Επιτυχημένη πώληση, Rosili, ISBN 978-618-5131-21-0.				

	English Bibliography: • Pushkov, Sergey (2016) Internet marketing: top 10 most effective strategies, Createspace Independent Publishing, ISBN: 978-1523698394. • Holdford, David A. (2007) Marketing for pharmacists,2nd, American Pharmaceutical Association, ISBN: 9781582121062. • Kotler, Philip & Keller, Kevin Lane (2012), Marketing management, 14th edition, Prentice Hall, ISBN: 9780132102926. • Doyle, Peter (2006), Marketing management and strategy, Prentice Hall, ISBN: 0-273-69398-0.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

24.

Course Title	Public Relations				
Course Code	PURE207				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's Name	Christodoulou Anri				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to introduce students to the subject of public relations and to define it clearly in relation to other related subjects. Students should at this early stage learn the basic principles of human relations and separate public relations from advertising, marketing and propaganda and understand the basic aspects of public relations. They should also understand the role of public relations in their work environment and be familiar with the organization of public relations within the modern external and internal business environment.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Understand the basic principles of Human Relations and their importance in modern society • Understand and analyze the basic communication model as well as the various forms of communication • Describe the meaning, content and importance of public relations • Understand the value and role of public relations departments and their respective programs • Understand the importance of public relations in the wider medical environment • Understand the importance of public relations in the more general medical environment; • Organize public related programs. • Understand the relationship of public relations with the media • Learn about the process of designing corporate forms and their role in the business environment • Understand the importance of intercom to an enterprise or organization as well as internal public relations techniques. • Organize public relations programs and evaluate their outcomes • Aware of the principles of ethics of the Public Relations				
Prerequisites	None		Required		None
Course Content	• Principles of human relations • Needs-motives in the workplace • The theory of H. Maslow • Basic communication model (forms of communication, group communication, personnel administration and communication) • The nature of public relations • Definition and distinction of public relations (in relation to advertising, marketing, sales promotion, propaganda and publicity) • Doctor as the subject of public relations • Planning the doctor's public relations • The media • The Social Networks • Relationship with the press • Budgeting				

	• Organization of public relations programs • Evaluation of results • The ethics of public relations • Private Media / Relationship Management and Employees • Budgeting • Organization of public relations programs • Evaluation of results • The ethics of public relations
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Morris, Trevor (2017), Σύγχρονες δημόσιες σχέσεις,2η, Κλειδάριθμος, ISBN: 9789604617739. • Αλβανός, Ραϋμόνδος (2016) Δημόσιες σχέσεις: θεωρία και πρακτική της επαγγελματικής επικοινωνία, Επίκεντρο, Θεσσαλονίκη, ISBN:978-960-458-674-5. • Jefkins, Frank (2008), Δημόσιες Σχέσεις, Κλειδάριθμος, Αθήνα, ISBN: 960-209-235-1. • Παπαλεξανδρή, Νάνσυ Α. (2014) Οι δημόσιες σχέσεις: η λειτουργία της επικοινωνίας στους σύγχρονους οργανισμούς,3η, Ε. Μπέου, Αθήνα, ISBN: 978-960-359-112-2. • Μαγνησάλης, Κώστας Γ. (2004), Οι δημόσιες σχέσεις του γιατρού: Αρχές και τεχνική ανάπτυξη της κοινωνικής επικοινωνίας, Interbooks, ISBN: 9603901369. • Πρωτοπαπαδάκης, Ιωάννης (2014), Δημόσιες σχέσεις, Αθ.Σταμούλης, ISBN: 978-960-351-957-7. • Αρναούτογλου, Ελευθερία (2015), Δημόσιες σχέσεις: μία σύγχρονη προσέγγιση, Rosili, ISBN: 978-960-7745-37-8. ***English Bibliography:*** • Heath, Robert L. (2006), Today's public relations: An introduction , Sage publications, London, ISBN: 1-4129-2635-1. • Knapp, Mark L. (2005), Interpersonal communication and human relationships, Pearson Allyn and Bacon, ISBN: 0-205-41493-1. • Gregory, Anne (2004), Public Relations in Practice, Kogan Pages, London, ISBN: 0-7494-3381-7. • Smith, Ron (2016), Public relations: The basics, Routledge, ISBN: 9780415675833.
Assessment	• Class Participation 10% • Assignments / Projects /Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

25.

Course Title	Nosology				
Course Code	MEDI111				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year/ 4th Semester				
Teacher's Name	Papadopoulos Elias, M.D.				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to teach students about the main diseases that occur in humans, the clinical symptoms for a number of them along with the associated precautions to prevent them and remedies for recovering from them.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Possess the theoretical background of the development of the main and most common diseases in humans; • List the various systemic and organ-related diseases in humans; • Outline the symptoms of basic diseases in humans; • Associate information and description about diseases with corresponding data and information in other related courses attended (e.g. Pharmacology); • Provide basic information and advice on issues related to the treatment of diseases in humans.				
Prerequisites	None	Required	None		
Course Content	• Infectious Diseases (Influenza, Mumps, Red, Mumps, Transplant Disease, Rheumatic Fever, Staphylococcal Infections, Meningitis, Pertusis, Diphtheria, Tetanus, Tuberculosis, Infectious Mononucleosis, Herpes Zoster). • Respiratory diseases (Bronchitis, Bronchial asthma, Pleuritis, Atelectasis, Chronic Obstructive Pulmonary Disease, Pulmonary embolism, Lung carcinoma). • Digestive system diseases (stomach and duodenal ulcer, gastro-oesophageal reflux, Irritable Bowel Syndrome, Celiac disease, Crohn's Disease, Ulcerative Colitis, Jaundice, Cholelithiasis, Liver Cirrhosis, Pancreatitis, Stomach Cancer, large intestine Cancer). • Kidney Diseases (Acute renal failure, Chronic renal failure, Pyelonephritis, Nephropathy by analgesics). • Endocrine Gland Diseases (Hyperthyroidism, Hypothyroidism, Thyroid Cancer, Diabetes Mellitus, Osteoporosis, Obesity, Polycystic Ovary Syndrome (PCOS), Infertility). • Rheumatic diseases (Rheumatoid arthritis, Gout, Osteoarthritis, Ankylosing spondyloarthritis, Lupus erythematosus). • Heart and vascular diseases (Heart Failure, Arrhythmias, Angina, Congenital Heart Diseases, Coronary Artery Disease, Pericarditis, Arterial Hypertension). • Blood diseases (Iron deficiency anemia, Megaloblastic anemia, Aplastic anemia, Acute leukemia, Chronic leukemias). • Sexually Transmitted Diseases (Hepatitis, HIV / AIDS, HPV / Warts, Chlamydia).				

Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Χαράτση – Γιωτάκη, Ελένη (2014) Σύγχρονη εσωτερική παθολογία, Ελένη Χαράτση – Γιωτάκη, ISBN:978-960-93-5096-9. • Χανιώτης Φραγκίσκος (2008 -2002), Νοσολογία-Παθολογία, Τόμοι Α,Β,Γ,Δ , εκδ. Λίτσας, Αθήνα, ISBN: 960-372-057-7, ISBN: 960-372-058-5, ISBN: 960-372-059-3, ISBN: 960-372-060-7 • Macleod, John (2006), Macleod's Κλινική Εξέταση 11η έκδοση, ΠΑΡΙΣΙΑΝΟΥ Α.Ε., Αθήνα, ISBN: 960-394-434-3. • Davey, Patrick (2006), Παθολογία με μια Ματιά, Επιστημονικές Εκδόσεις Παρισιάνου Α.Ε., Αθήνα, ISBN: 960-394-399-1 • Χαροκόπος, Νικόλαος (2005) Στοιχεία νοσολογίας, Φιλομάθεια, ISBN: 960-87710-5-6 • Γκρεκ, Ιωάννα (2005), Αισθητικά προβλήματα από ενδοκρινολογικά νοσήματα, Βήτα Ιατρικές εκδόσεις, Αθήνα, ISBN: 960-8071-83-6. • Συλλογικό έργο (2017), Θέματα εσωτερικής παθολογίας: Τιμητικός τόμος καθηγητή Πάνου Μεταξά, University Studio Press, ISBN 978-960-12-2323-0. ***English Bibliography:*** • Gaw, Allan (2013), Clinical biochemistry: an illustrated colour,5th edition, Churchill Livingstone, ISBN: 978-0702051791 • Green, David (2011) Psychic self defence: the health and safety of spirituality, Dodo Publishing, ISBN: 978-1471632198.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

26.

Course Title	Medical - Scientific Publications				
Course Code	MEDI214				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's Name	Dr. Siafaka Panoraia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to train students in reading, understanding and explaining information from scientific and medical journals and other publications. Furthermore, the goal is to point the importance of publication as an essential part of the scientific research process and to introduce students in scientific manuscript preparation.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Read and comprehend scientific publications; • Understand and explain the content of a scientific publication; • Extract the most important information from a scientific publication; • Present and explain important information of a publication to an audience. • Review and discuss the steps involved in preparing, peer reviewing, and revising manuscripts for publication. • Demonstrate professional writing skills, communication and teamwork.				
Prerequisites	None	Required	None		
Course Content	• Introduction to scientific publications from different sources such as Pubmed and prestigious peer-reviewed journals, such as The New England Journal of Medicine, Lancet, Nature, Science, Cell and local Scientific Journals, as well. • Types of medical- scientific publications (research article, review, scientific report, short communication, posters e.t.c.) • Parts of a medical- scientific publication: Cover letter, Title page, Abstract, Introduction, Methods, Results, Tables, Figures, References, Acknowledgements, Supplementary Materials. • Issues regarding publishing a scientific paper: o Editors and reviewers reaching decisions about articles (peer review) and reponding to a review. o Publication metrics – Impact Factor. o Editorial Ethics and Authorship. o Conflict of interest. • Citation practices - Reference Management Softwares <u>Practical Exercises:</u> 1] Small-group workshops for analysing scientific publications. 2] EndNote and Mendeley demonstration (or other free Softwares) 2] Preparing a publication outline 3] Prepare a scientific poster based on a published scientific study				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit. Furthermore, lectures are accompanied with individual workshops.				

Bibliography	***English Bibliography:*** • Rothman KJ. Writing for epidemiology. Epidemiology. 1998 May;9(3):333-7. PubMed PMID: 12296359. (PDF available) • Macrina FL. Teaching authorship and publication practices in the biomedical and life sciences. Sci Eng Ethics. 2011 Jun;17(2):341-54. Epub 2011 May 1. PubMed PMID: 21533836. (PDF available) • Durieux V, Gevenois PA. Bibliometric indicators: quality measurements of scientific publication. Radiology. 2010 May;255(2):342-51. doi: 10.1148/radiol.09090626. PubMed PMID: 20413749. (PDF available) • Carpenter CR, Cone DC, Sarli CC. Using publication metrics to highlight academic productivity and research impact. Acad Emerg Med. 2014 Oct;21(10):1160-72. doi: 10.1111/acem.12482. PubMed PMID: 25308141. (PDF available) • van Eck NJ, Waltman L, van Raan AF, Klautz RJ, Peul WC. Citation analysis may severely underestimate the impact of clinical research as compared to basic research. PLoS One. 2013 Apr 24;8(4):e62395. doi: 10.1371/journal.pone.0062395. Print 2013. PubMed PMID: 23638064; PubMed Central PMCID: PMC3634776
Assessment	• Class Participation 10% • Assignments / Projects 10% • Practical 10% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

27.

Course title	Domestic Pharmaceutical Formulations				
Course code	PHRM214				
Course type	Theoretical				
Level	Bachelor				
Year / Semester	2nd Year / 4th Semester				
Teacher's name	Savvidou Andria				
ECTS	2	Lectures / week	1	Laboratories / week	0
Course Purpose and Objectives	This course aims to inform and educate students of the local and national pharmaceutical products regarding the medical and scientific aspects (marketing name of products, active compounds, classification and categories of drugs, medical uses of drugs).				
Learning outcomes	By the end of the course, students are expected to be able to: • Distinction of drugs – classification of drugs; • Names of the main pharmaceutical products from each drug category; • Active compounds of the basic pharmaceutical products; • Understand the medical use of the pharmaceutical products depending on the class they belong to; • Identify products based on their type and brand-name.				
Prerequisites	PHRM203	Required	None		
Course content	Pharmaceutical products used for the following: • Diseases of the digestive system • Diseases of the cardiovascular system • Diseases of the respiratory system • Diseases of the Central Nervous System • Infections • Diseases of the endocrine system • Blood disorders • Eye disorders • Skin disorders • Management of arthritis and musculoskeletal disorders • Gynecological disorders • Analgesics and Antipyretic agents				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography*** • Κουρουνάκης, Πάνος Ν., Ρέκκα, Ελένη Α. (2014) Γνωριμία με τη συναρπαστική επιστήμη των φαρμάκων, Εκδόσεις Κυριακίδη Μονοπρόσωπη ΙΚΕ, ISBN: 978-618-80941-6-1. • Ιατρικές Εκδόσεις Λίτσας (2011), Ιατροφαρμακευτικός Οδηγός, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN: 978-960-372102-4. • Mycek, MaryJ. &Harvey, RichardA. (2007), Φαρμακολογία, 3η έκδοση, Παρισιάνου, ISBN: 978-960-394-502-4. • Aulton, Michael E. (2017), Aulton φαρμακευτική: Σχεδιασμός και παρασκευή φαρμάκων, Παρισιάνου Α.Ε., ISBN 978-960-583-216-2.				

	English Bibliography • Rutter, Paul (2017), Community pharmacy: symptoms, diagnosis and treatment, 4th edition, Elsevier, ISBN: 978-0702069970 • British Medical Association (2018), BNF 75, British Medical Association, ISBN: 978-0857113313. • Waterfield, Jon (2008) Community Pharmacy handbook, Pharmaceutical Press, ISBN: 978-0853697169.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

28.

Course Title	Elements of Biotechnology				
Course Code	PHRM310				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year/ 5th Semester				
Teacher's Name	Dr. Georgiou Marina				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to provide students with a general understanding of the modern achievements of Biotechnology and its relevant concepts as well as their practical application.				
Learning Outcomes	By the end of the course, students are expected to: • Recognize and describe the main methods used in modern biotechnology; • Identify practical applications of the achievements of Biotechnology; • Understand the principles of cloning and protein expression; • Know experimental approaches for drug production using, enzymes, genes, genetically modified microorganisms and plants; • Identify the advantages and limitations of Biotechnology.				
Prerequisites	None	Required	None		
Course Content	1. Principles and applications of Biotechnology 2. Chromosomes and extrachromosomal prokaryotic cell elements 3. Genotype and phenotype (Genotype, Phenotype) 4. Genes and Cistrons 5. Mutations 6. Eukaryotic cell chromosomes 7. Principles of genetics 8. Cloning and gene expression for protein production 9. Restriction enzymes 10. Hybridization of nucleic acids 11. Determination of the nucleotide sequence of cloned fragments 12. PCR method 13. Electrophoresis 14. Protein expression systems (bacteria, fungi, plant cells, eukaryotic cells) 15. Production and purification issues during protein expression (protein folding and functionality) 16.Intracellular Transduction of Recombinant Proteins – Protein Transduction Technologies 17. Biotherapeutic proteins 18. Vaccines 19. Gene Therapy 20. Cellular Therapies				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				

Bibliography	***Greek Bibliography:*** • Καλημέρης, Δημήτριος Π. (2018), Η "επική" καθημερινότητα της σύγχρονης βιοτεχνολογίας: Μελέτες αφηγηματικής βιοηθικής, Σμίλη, ISBN 978-960-6880-91-9. • Lesk, Arthur M. (2017) Εισαγωγή στη γονιδιωματική, Utopia, ISBN: 978-618-5173-18-0. • Τριανταφυλλίδης, Κωνσταντίνος Δ. (2017) Οικονομία - δίκαιο στη Βιολογία: Έμφαση στη βιοτεχνολογία, Εκδόσεις Κυριακίδη, ISBN: 978-960-599-017-6. • Lieberman, Daniel E. (2015) Η ιστορία του ανθρώπινου σώματος: υγεία, ασθένεια, και φυσική επιλογή: το νέο εξελικτικό πεδίο της ιατρικής, Κάτοπτρο, ISBN: 978-618-5111-41-0. • Χατζημόσχου, Αθανάσιος, Οικονομίκος, Νικόλαος, Μαυρομματίδης, Βασίλειος (2015) Βιολογία γενικής παιδείας, Smart Lean, ISBN: 978-960-99508-3-1. • Λιακοπούλου - Κυριακίδου Μαρία (2004), Βιοτεχνολογία με στοιχεία βιοχημικής μηχανικής, Εκδόσεις Ζήτη, Θεσσαλονίκη, ISBN: 960-431-900-0. • Χατζηαντωνίου Α. (2004), Βιολογία: Η μελέτη της ζωής, Εκδόσεις Σταμούλη, Αθήνα, ISBN: 960-3515-47-7. ***English Bibliography:*** • Crowe, Jonathan, Brandshaw, Tony (2014) Chemistry for the biosciences: The essential concepts, 3rd edition, OUP Oxford, ISBN: 978- 0199662886. • Papachristodoulou, Despo, Snape, Alison, Elliot, William E. (2014) Biochemistry and Molecular Biology, 5th edition, OUP Oxford, ISBN: 978-0199609499. • Norman Robert I. (2007), Flesh and Bones of Medical Cell Biology, Publisher Mosby, ISBN: 978-0723433675. • Alberts Bruce (2014), Essential Cell Biology, Publisher Garland Science, ISBN: 9780815344551.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

29.

Course Title	Toxicology				
Course Code	MEDI305				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year/ 5th Semester				
Teacher's Name	Filippou Elli				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to offer to the student a modern approach to toxicology regarding the classification, mechanism of action, identification, treatment and epidemiology of the most important poisons of chemical, biological and radioactive origin. Particular importance is given to the role of drugs as poisons and to the treatment of more frequent medicine poisoning.				
Learning Outcomes	By the end of the course, students are expected to be able to: •Identifies the most important categories of toxic agents and classifies them according to their mechanism of action and their origin • Recognizes the most important potential causes of poisoning by toxic agents in the various environments as well as the toxic effects of medicines. • Describes the mechanism of toxic action of the most important chemical microbiological and radioactive toxic substances • Indicates the distribution of poison to the organism and the materials and methods available for sampling for analysis and identification • Indicates how to deal with the major poisons as well as the available antidotes and how to dispense them.				
Prerequisites	None	Required	None		
Course Content	• Introduction - Principles of Toxicology Risk Assessment • Absorption - Distribution - Biotransformation • Clinical Semiology - Treating Poisoning Mechanisms of Toxicity • Toxicity to CNS • Toxicity to Cardiovascular and Blood Toxicity to Respiratory • Liver Toxicity, Digestive, Reproductive Toxicity To Urinary, Kidney Chemical Carcinogenicity • Toxicology of Organic Solvents, Alcohols and Other Industrial Products Metabolic Toxicity • Toxicity Due to Animal and Plant Toxins Toxicology Pesticides • Toxicology of Home Environment - Antiseptics, Disinfectants Environmental Toxicology (mainly toxic gases) • Toxicity of Pharmaceutical Substances - Drug Interactions Toxic Drug Interactions • Specific Food Anti-Toxicity • Environmental Pollutants - Pollution of the atmosphere				
Teaching Methodology	The content of this course will be taught through: PowerPoint slides, slides diagrams and tables, guided discussions with students' active participation, individual and teamwork activities, and the use of various supervisory tools.				
Bibliography	***Greek Bibliography:*** • Θεοχάρης, Σταμάτης (2016), Βασικές αρχές τοξικολογίας, Ζήτη, ISBN 978-960-456-452-1. • C. Klaasen, J. Watkins (2015), Βασική Τοξικολογία, Εκδ. Παρισιάνου, ISBN: 9789603949329.				

	English Bibliography: • Curtis D. Klaassen (2015), Casarett & Doull's Essentials of Toxicology, 3rd Edition, McGraw-Hill Education, ISBN: 978-0071847087.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

30.

Course Title	Costing				
Course Code	ACCT310				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year/ 5th Semester				
Teacher's Name	Demetriou Demetris				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of the course is to provide the necessary knowledge and information to students in order to develop skills required to plan operations, ascertain and control cost, fix selling price, match cost with revenues and provide the basics for operating policy of a pharmacy store.				
Learning Outcomes	By the completion of the course the students must be able to: • Explain how cost accounting relates to other fields such as financial accounting and economics and how it assists pharmacy personnel to carry out their job. • Know the elements, which make up the cost of a product and understand the nature and behavior of product and period costs, in decision making and performance evaluation in terms of cost-volume-profit relationships. • Understand the significance and prepare financial statements based on full absorption and variable costing methods, ascertaining the gross and contribution margin. • Understand and apply the "process" and "job costing" methods to ascertain the cost of a product. Allocating and reallocating departmental and service – departments costs. • Apply cost volume profit analysis for managerial decision-making. They must know the profit equation for break even, targeted profit and illustrate their behavior graphically. • Know the importance and the types of budgets and prepare the most significant of them, such as cash, sales, purchases, trade receivables and payables budgets. • To compare and analyses planned and actual results through variances and exercise management buy exception for corrective measures.				
Prerequisites	None	Required	None		
Course Content	• The nature and usefulness of cost accounting • Types and behavior of costs (Fixed, variable, product, period, expired and unexpired costs). • Responsibility accounting, cost accumulation and cost centers. • Process and job costing systems including allocation and reallocation of costs. • Full absorption and variable costing methods. • Cost volume, break-even and profit analysis – Graphical presentation). • Inventory management costs (Perpetual & periodic, FIFO, AVCO) • Budgeting – sales, purchases, trade receivable, payables and cash budgets. • Variance analysis and management by exemption.				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of				

	students, individual and team work, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Μπαλλάς Α. & , Χέβας Δ. (2017) Λογιστική Κόστους, Μπένου Ε,ISBN: 9789603591634. ***English Bibliography:*** • Edward B. Deakin E.& Maher M. (1996), cost accounting, fourth edition, IRWIN, USA – ISBN:13 9780256116571 • Srikant Datar and Madhav Rajan(2017), Horngren's Cost Accounting: A Managerial Emphasis,17th edition, Pearson Education ISBN: 9781292363073. • Finkler A., Ward D., Baker J. (2007) Essentials of Cost Accounting for Health Care Organizations 3rd Edition, Jones & Bartlett Learning ,ISBN: 978-0763738136.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

31.

Course Title	Pharmacovigilance and Clinical Trials				
Course Code	PHRM312				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year / 5th Semester				
Teacher's Name	Savvidou Andria				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is to introduce students to drug safety and pharmacovigilance. This course will emphasize on the interpretation of clinical trials to generate safety data. The main aspect of this course is to explain pharmacovigilance applications both before and after marketing of products, especially as they apply in Cyprus and Europe.				
Learning Outcomes	By the end of this course, students will be able to: • Know basic aspects of pharmacovigilance and its necessity in pharmaceutical market and industry. • Evaluate warnings, risk management and risk communication about adverse drug reactions. • Analyse and assess the effects and safety of drugs. • Know the pharmacovigilance from a regulatory perspective. • Explain the regulatory requirements for conducting clinical trial. • Demonstrate the types of clinical trial designs and the responsibilities of key players involved in clinical trials. • Execute safety monitoring, reporting and close-out activities.				
Prerequisites	None	Required	None		
Course Content	1. Basic concepts of Pharmacovigilance and drug safety. 2. History and development of Pharmacovigilance (chloroform, diethylene glycol and thalidomide). 3. Regulatory requirements, adverse event reporting, signalling and risk management. 4. Relation between regulatory issues and slowing down drug approval. 5. The role of the health professional in conducting clinics Studies: Rules of good clinical practice. 6. Drug labelling and handling for clinical trials. 7. Drug blinding. 8. Clinical Case studies: Examination of clinical cases of drug interactions. 9. How to minimize risk, avoid product recall, and meet international standards. 10. Adverse Reaction Types. Basic terminologies used in pharmacovigilance. Terminologies of adverse medication related events. 11. Effective communication in Pharmacovigilance: Communication in Drug Safety Crisis management, Communicating with Regulatory Agencies, Business Partners, Healthcare facilities & Media. 12. Safety data generation: Pre clinical, Clinical and Post approval phase. 13. Regulatory Perspectives of clinical trials.				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				

Bibliography	***Greek Bibliography:*** • Montagne, Micheal and Waning, Brenda Φαρμακοεπιδημιολογία Θεωρία και πράξη. (2010) Μεταφραστής: Διαμαντοπούλου - Χατζημιχαήλ, Γεωργία / Χατζημιχαήλ, Χρήστος. Εκδόσεις: Έλλην - ISBN-13: 978-960-697-032-0 ***English Bibliography:*** • Stephens' Detection and Evaluation of Adverse Drug Reactions: Principles and Practice, 6th Edition John Talbot (Editor), Jeffrey K. Aronson (Editor) ISBN: 978-0-470-98634-9 (2011) • Barton Cobert(2019), Cobert's Manual Of Drug Safety And Pharmacovigilance, 3rd World Scientific Publishing Co Pte Ltd,ISBN: 9789811215230. • Klepper, Michael J.; Cobert, Barton L. Drug safety data: how to analyze, summarize, and interpret to determine risk. 1st ed.: Sudbury, MA: Jones and Bartlett Publishers, 2011 • The Safety of Medicines in Public Health Programs: Pharmacovigilance an essential tool. WHO Publications, Geneva, 2006.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

32.

Course Title	Introduction to Public Health-Gesy				
Course Code	MEDI304				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year / 5th Semester				
Teacher's Name	Xenou Aikaterini				
ECTS	3	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is to focus on the key problems that Public Health faces as well as on the role that international organizations in the area of Public Health provide through their directives. Also on the role/ responsibilities of Public Health employees. Furthermore, this course is engaged in educating on the strategies and practices of Public Health for the implementation of actions within the existing legal framework. This is mainly because problems of Public Health concern are nowadays treated in a systematic and spherical manner and involve numerous and different professional teams, thus giving another aura its interdisciplinary character.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Discuss the basic principles and problems concerning modern Public Health • Determine and evaluate the health status of human populations • Apply basic scientific knowledge for the development of a modern perception with regard to Public Health • Find solutions to public Health issues and problems • Analyze, using critical thought, the Public Health policy that is applied in Cyprus, in the European Union and in the World Health Organization • Describe and explain the strategies and practices guiding Public Health actions • Explain and analyze the existing legal framework within Public Health in Cyprus and in the European Union • Define the identity of the Public Health professional				
Prerequisites	None	Required	None		
Course Content	The increasing importance of Public Health makes it imperative for students to acquire basic knowledge with regard to Public Health, both from a professional but also a students' standpoint. This course develops a core level of knowledge and practice based on the principals that the World Health Organization treats Public Health today. The course analyses the concepts of Health and Public Health, the prevention of disease and the promotion of Public Health. It describes Public Health structures and the role of international organizations (World Health Organization, European Union, Council of Europe). The health level of human populations is considered and the means and ways that this can be evaluated by the use on indices. The course also analyses transmitted and non-transmitted diseases, their control and the strategies and policies for their prevention. Different contemporary Public Health problems are considered, such as the aging population, environmental pollution, mental health, patients' rights, degenerative and chronic illnesses				

Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Varkey, Prathibha (2017), Mayo Clinic: Προληπτική ιατρική και δημόσια υγεία, Gotsis Εκδόσεις, ISBN 978-960-9427-57-9. • Παπαρρηγοπούλου - Πεχλιβανίδη, Πατρίνα (2017), Το δημόσιο δίκαιο της υγείας: Οργάνωση των δημόσιων υπηρεσιών υγείας, δικαιώματα του χρήστη, δημόσια υγεία, Νομική Βιβλιοθήκη, ISBN 978-960-622-284-9. ***English Bibliography:*** • British Medical Association (2018), BNF 76, Pharmaceutical Press, Αγγλία, (χρησιμοποιείται η πιο πρόσφατη έκδοση) • Rutter, Paul (2017), Community Pharmacy: Symptoms, Diagnosis and Treatment, Elsevier, ISBN: 9780702069970. • Strom, Brian L. (2005), Pharmacoepidemiology, John Wiley and Sons Ltd, ISBN: 0470866810
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

33.

Course Title	Development of Personal Skills				
Course Code	COMM305				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd year/5th semester				
Teacher's Name	Dr. Georgiou Nicos				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	By the end of the course, students are expected to be able to: to develop personal transferable skills, including self-management, conflict resolution techniques, communication and team work. to establish their own personal development plan (PDP) by identifying their personal strengths and areas for development and set targets to promote both their academic and professional development. Also, enable students to develop the resilience needed to achieve their long-term goals to develop these transferable skills to enhance employability in their work place				
Learning Outcomes	After completion of the course students are expected to be able to: • Manage their selves during their pharmacy practice • Work in groups • Develop oral communication skills • Develop written communication skills • Develop the skill of information seeking (library, internet) • Solve problems and face difficult situations • Apply computer technology to pharmacy • Develop critical thinking • Manage interpersonal conflicts • Acquire basic self-Knowledge (strengths and difficulties) • Develop planning skills				
Prerequisites	None	Required	None		
Course Content	This course will cover the following topics: • personal skills assessment • personal development planning • academic writing skills • referencing and plagiarism • presentation skills • using library resources • time and stress management • group work • goal setting • learning and memory				
Teaching Methodology	Lecture, self-assessment, individual and group work, case studies, assignments				
Bibliography	***Greek Bibliography:*** • Rudolph F. Verderber & Kathleen S. Verderber (2006).Δεξιότητες Διαπροσωπικής Επικοινωνίας, Εκδοσεις: Ελλην, ISBN: 9602867876. • Βακόλα Μαρία & Νικολάου Ιωάννης (2019). Οργανωσιακή Ψυχολογία & Συμπεριφορά. Εκδόσεις: Rossili. ISBN: 978-618-5131-59-3. • Γιαννουλέας,Μιχάλης Π.(2011),Συμπεριφορά και διαπροσωπική επικοινωνία στον εργασιακό χώρο, Πεδίο,ISBN:978-960-9552-74-5 ***English Bibliography:***				

	• Robert Beardsley(2019), Communication Skills in Pharmacy Practice,7th, Wolters Kluwer Health,ISBN: 978-1975105419. • Bruce A Berger (2009),,Communication Skills for Pharmacists: Building Relationships, Improving Patient Care,3rd, American Pharmacists Association,ISBN: 978-1582121321.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

34.

Course Title	Entrepreneurship				
Course Code	ENTR304				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year/ 5th Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the subject **Entrepreneurship** is for students to understand the concept of entrepreneurship and to acquire knowledge and skills that will enable them to create their own business and manage its development.				
Learning Outcomes	By the end of the course, student will be expected to: • Understand entrepreneurship by understanding primarily the characteristics and way of thinking of entrepreneurs. • To analyze the theories and tools of creative thinking. Be able to carry out a feasibility study. • Evaluate and implement the various market research methods and tools • Understand key aspects of a business plan and create a draft and final version • Begin to develop the necessary entrepreneurial way of thinking in order to be able to think in all ways about the business. • Is aware of all successful development strategies. • Implement various methods for the students' personal development				
Prerequisites	None	Required	None		
Course Content	1. Introduction to entrepreneurship 2. Types of Entrepreneurs; 3. Developing people and competencies 4. The economics of entrepreneurship and innovation 5. Promoting Creativity 6. Gaining Strategic Advantage 7. The Marketing Plan 8. The Business Plan 9. Intellectual Capital 10. Knowledge Management. 11. Presentation Technique. 12. Self Confidence and personal development. 13. Technical Innovation. 14. Green and Social entrepreneurship.				
Teaching Methodology	Lectures, Demonstration, Individual or group assignment.				
Bibliography	***Greek Bibliography:*** • Deakins, David & Freel, Mark (2007), Επιχειρηματικότητα, 1η εκ., Κριτική, ISBN: 9789602185018. • Meyer, Earl C. & Allen, Kathleen R. (2004), Επιχειρηματικότητα: διοίκηση μικρών επιχειρήσεων, Έλλην, ISBN: 9602867566 • Storey, David J. & Greene, Francis J. (2011), Επιχειρηματικότητα για μικρές και μεσαίες επιχειρήσεις, ISBN: 978-960218740.				

	• Κώτσιος, Παναγιώτης (2015), Επιχειρηματικότητα και καινοτομία, GPAPHICA, ISBN: 9789609371544. • Bessand, John (2016), Καινοτομία και επιχειρηματικότητα, Τζιόλα, ISBN 978-960-418-603-7 . • Συλλογικό έργο (2016), Θέματα κοινωνικής οικονομίας: Από την κοινωνική επιχειρηματικότητα στις κοινωνικές επενδύσεις και την κοινωνική τραπεζική, Ινστιτούτο Κοινωνικής Οικονομίας, ISBN 978-*618-80232-3-9 .* ***English Bibliography:*** • Deakins, David (2003), Entrepreneurship and small firms, McGraw-Hill Education, London, ISBN: 0-07-709993-1. • Barringer, Bruce R. (2010), Entrepreneurship successfully launching new ventures, Pearson education, New Jersey, ISBN: 9780138158088. • Norman M. Scarborough (2011), Essentials of Entrepreneurship and Small Business Management: Global Edition (6th Edition), Pearson/Prentice Hall, ISBN: 9780273756040 • Steve Mariotti, Caroline Glackin (2013), Entrepreneurship: Starting and Operating a Small Business, (3rd Edition) Pearson/Prentice Hall, ISBN: 9780132784085 • Charles E. Bamford, Garry D. Bruton (2011), Entrepreneurship: A Small Business Approach, (1st Edition) McGraw-Hill, ISBN: 9780073403113 • Mary Jane Byrd, Leon C. Megginson (2009), Small Business Management: An Entrepreneur's Guidebook, (6th Edition) McGraw-Hill ISBN: 9780073405070. • Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd (2010), Entrepreneurship, (8th Edition) McGraw-Hill, ISBN: 9780073530321.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

35.

Course Title	Methodology of Research in Health Sciences				
Course Code	PROJ325				
Course Type	Theoretical and Practical				
Level	Bachelor				
Year / Semester	4th Year / 6th Semester				
Teacher's Name	Dr. Siafaka Panoraia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of this course is to give students the opportunity to acquire the knowledge and skills necessary for the formulation of a proper research question, to conduct a research project and to present, justify and defend the results and assess their impact. The main goal of this course is to introduce students to the concept of preparing a dissertation, which will follow at the 7th and 8th semester, during courses Thesis I and II.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Define and evaluate the level of clarity of a research problem • Define the specific research question under consideration • Evaluate the necessity for the development of a research project based on the review of the existing literature • Evaluate the reliability and validity of a research project • Define the population that is under study • Evaluate the appropriateness of the research methodology for the specific study • Define the results • Define the limitations of the research study • Offer alternative interpretation for the results • Distinguish quantitative from qualitative research methods • Be able to select a Thesis Topic, to be prepared in the following semesters, in a Scientific Area of their choice.				
Prerequisites	None	Required	None		
Course Content	1. Introduction to the basic methodological principles and statistics of research 2. Approaches for the solution of a problem and selection of methodology 3. Investigation of different research approaches, including those for the formulation of a research question 4. Sampling and data collection methods, including pilot research, questionnaires, interviews, case studies, content analysis and observation 5. Quantitative and qualitative data and statistical analysis, interpretation and presentation of results. Regarding the introduction of students in their dissertation preparation, Thesis supervisors (restricted in Academic Staff, PhD holders) have to provide to the Program's Coordinator at least three Thesis topics of their expertise by the 7th week of the 6th Semester. Thesis topics will be made available to the students at the last week of this course, giving them sufficient time to make their selection, since the assignment of the Thesis topic will be made at the first week of the course of Thesis I (7th Semester).				

Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Παρασκευή Θεοφίλου (2019), Εγχειρίδιο μεθοδολογίας έρευνας: Εισαγωγικός οδηγός στις μεθόδους έρευνας στις κοινωνικές επιστήμες και επιστήμες υγείας, Βήτα Ιατρικές Εκδόσεις, ISBN 978-960-452-285-9. • Γαλάνης, Πέτρος Α. (2017), Μεθοδολογία της έρευνας στις επιστήμες υγείας, Κριτική, ISBN 978-960-586-194-0. • Πετράκης, Μιχάλης (2011), Έρευνα Marketing: Η ερευνητική μεθοδολογία, Αθ. Σταμούλης, ISBN: 9789603518754. • Σαχίνη - Καρδάση, Α. (2004), Μεθοδολογία Έρευνας: Εφαρμογές στο χώρο της υγείας, ΒΗΤΑ Ιατρικές Εκδόσεις, ISBN: 960-7308-80-8. ***English Bibliography:*** • Bell, Judith (2014) Doing your research project: a guide for first-time researchers,6th revised edition, Open University Press, ISBN: 978-0335264469. • O' Leary, Zina (2017) The essentials guide to doing your research project, 3rd edition, Sage Publications, ISBN: 978- 1473952089.
Assessment	• Class Participation 20% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

36.

Course Title	Introduction to Nutrition				
Course Code	MEDI302				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year / 6th Semester				
Teacher's Name	Dr. Sophokleous Xanthi				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is for students to understand the demands of the human organism in nutritional elements and the ways that these are satisfied through the digestion, absorption and metabolism of food.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Identify the nutritional elements and their relationship with the physiological functioning of the human organism • Explain the need for nutritional balance and the relative adjustment of the bodily weight • Describe the metabolism of carbohydrates, fat and proteins • Record the effect that the absence of certain nutritional elements has on the human organism • Record the problems that come along related to bodily weight				
Prerequisites	CHEM120		Required	None	
Course Content	• The most important macronutrients: carbohydrates, fat and proteins, transfer of nutritional elements and their storage, energy use by the human body and control of the nutritional balance • The importance of the micronutrients for the normal functioning of the cells, the building of the bones, the functioning of the enzymes, muscles, the nerve system and electrolytes. Consequences for the human health due to the absence of micro nutritional elements.				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Townsend, Carolynn E. (2001), Υγιεινή Διατροφή & Διαιτητική, Έλλην, ISBN: 960-286-469-9. • Χασαπίδου, Μαρία (2008), Διατροφή για υγεία, άσκηση και αθλητισμό, University studio press, ISBN: 978-960-12-1130-5. • Αλεξανδρόπουλος, Θωμάς (2000), Θέματα υγιεινής τροφίμων & διατροφής, Εκδόσεις Ίων, ISBN: 960-411-048-9. • Μπαζαίος, Κώστας (2000) Οι τροφές που χαρίζουν υγεία, Μπαζαίος, ISBN: 960-7664-02-7. • Πλέσσας, Σταύρος Τ.(2010) Διαιτητική του Ανθρώπου, Φάρμακον – Τύπος, Αθήνα, ISBN: 978-960-89845-1-6. • Μιτάκης, Μανώλης (2008), Φαρμακοδιατροφική: Η διαχείριση της σχέσης φαρμάκου-διατροφής, Φαρμακευτικός Κόσμος, ISBN: 9789608682986.				

	• Πέτρου, Ηλίας (2018), Τροφή και υγεία, Αναγνώστης, ISBN 978-618-5287-23-8. ***English Bibliography:*** • Drummond, Karen Eich (2007), Nutrition for foodservice and culinary professionals, John Wiley & Sons, ISBN: 0-471-59976-X. • Fieldhouse, Paul (2002), Food and Nutrition, Nelson Thornes, ISBN: 0-7487-3723-5. • Garrow, JS (2005) Human nutrition and dietetics, Churchill Livingstone, ISBN: 0-443-05627-7. • Holford, Patrick (2000) The optimum nutrition Bible, Piatkus, ISBN: 0-7499-1855-1. • Piper, Breanda (2000) Diet and Nutrition: A guide for students and practitioners, Stanley Thornes, ISBN: 0-7487-3723-5. • Langley – Evans, Simon (2009) Nutrition: A lifespan approach, Wiley – Blackwell, ISBN: 978-1-4051-7878-5. • Sharon, Michael (2002) Complete Nutrition: How to live in total health, Prion, ISBN: 1-85375-435-8. • Webb, Geoffrey P. (2008) Nutrition: A health Promotion Approach, Hodder Arnold, ISBN: 9780340938829. • Ballentine, Rudolph (2008), Diet and nutrition: A holistic approach, Himalayan Institute, ISBN: 9780893890483. • Mann, Jim (2012), Essentials of human nutrition, Oxford University Press, ISBN: 9780199566341. • Frazier, Karen (2015), Nutrition facts, Rockridge Press, ISBN: 9781623156114. • Whitney, Ellie (2013), Understanding Nutrition, Cengage/Wadsworth, ISBN: 978-1-133-58752-1.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

37.

Course Title	Professional Communication				
Course Code	COMM307				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year /6th Semester				
Teacher's Name	Dr. Sophocleous Xanthi				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to provide the students with the theoretical and the practical knowledge required for a medical representative to be able to visit a doctor or a health professional face to face, placing emphasis on the professional and communication skills required before, during and after the visit.				
Learning Outcomes	By the end of the course, students are expected to be able to: • prepare a visit plan to the doctor/health professional; • know the procedures of how to present data for pharmaceutical products; • use successfully medical samples, marketing and informative aids during the product presentation; • communicate successfully with health professionals; • follow up with the doctor or health professional in support of the pharmaceutical product he/she is representing. • Be able to practice offensive communication techniques during call.				
Prerequisites	None	Required	None		
Course Content	• Purpose, characteristics and abilities of a medical representative. • Doctors specialties. • How to plan the visit. • Finding the connection between doctor, patient and pharmaceutical product. • Strategies for professional and scientific update. • Social style of doctors. • How to develop the purpose of each visit and the discussion path with the doctor/ health professional. • Sales tracking. • Observational skills. • Question techniques. • Listening techniques. • How to develop interesting conversation. • How to use the detail aid. • Benefits and restrictions. • How to provide balanced scientific information. • How to use the medical samples • How to deal with doctors reservations regarding the pharmaceutical product. • How to close the visit. • How to provide scientific information for more than one pharmaceutical products. • How to follow up with the doctor.				

	• Basic characteristics of body language communication – position of the body, gestures, facial expressions, eye contact, use of space • Role playing • The laws of impact when it comes to communication. • Offensive presentation of a study. • Useful questioning. • Assertiveness in sales techniques. • Dealing with objections. • The commitment approach.
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit. Experiential and interactive exchange of the roles of the medical representative and a doctor (roleplaying) between two students. The rest of the class engages with the following: observation, discussion, suggestions for change in behaviour, conclusions.
Bibliography	***Greek Bibliography:*** • Αλβανός, Ραϋμόνδος (2016), Δημόσιες σχέσεις: Θεωρία και πρακτική της επαγγελματικής επικοινωνίας, Επίκεντρο, ISBN: 9789604586745. • Ζαΐρης, Α. & Ιακωβίδης Ν. (2001), Ιατρικός Επισκέπτης: Η έννοια του επιστημονικού συνεργάτη στον 21ο αιώνα, Εκδόσεις Σύγχρονη Εκδοτική, Αθήνα, ISBN 960-8165-08-3. • Γιαννουλέας, Μιχάλης Π. (2011), Συμπεριφορά και διαπροσωπική επικοινωνία στον εργασιακό χώρο, Εκδόσεις Πεδίο, ISBN: 9789609552745. • Cornelissen, Joep (2016), Εταιρική επικοινωνία,4th, Δίαυλος, ISBN: 9789605313548. • Harvard Business Essentials (2011), Εταιρική επικοινωνία, Μοντέρνοι Καιροί, ISBN: 9789604940080. • Pease, Allan (2017), Το απόλυτο βιβλίο για τη γλώσσα του σώματος, Ιβίσκος, ISBN 978-618-5093-52-5. ***English Bibliography:*** • Issaias, P. (2004), Pharmadetailings: The Science of Dialectic Pharmatherapeutic Detailing, Athens, ISBN: 960-91949-1-5. • Melfa, Frank A. (2005), Pharmaceutical Landing: How To Land The Pharmaceutical Sales Job You Want And Succeed In It!, Power Writings, ISBN: 0-9641640-9-4. • Lidstone John (2003), Presentation Planning and Media Relations for the Pharmaceutical Industry, Gower Publishing Company, ISBN: 0-566-08536-4. • Peters Sandra M. & Peters Vincent F (2000), Selling to Specialist Physicians, Black Dog Publishing Company, ISBN: 0-9656231-5-7. • Farb Daniel & Gordon Bruce (2005) Powerful Pharmaceutical Sales Guidebook, University Of Health Care, ISBN: 1-59491-263-7. • Griffin, Em (2015), A first look at communication theory,9th, Mc Graw Hill Education, ISBN: 9780073523927.
Assessment	• Class Participation 20% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

38.

Course Title	International Business				
Course Code	BUSS315				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year/6th Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	This course provides insights into the context of business on an international basis by drawing upon international business theory and practice. Students will come across and analyze international management practices and strategies while at the same time focusing on understanding business at a national and company level.				
Learning Outcomes	By the end of the course, student will be expected to: • Show an understanding of strategy at a company, national and international level. • Reflect on the political and regulatory context of international businesses. • Link different economic systems with nation-wide and international productivity systems. • Analyse the role of different levels of management and managers across different economic systems. • Appreciate the factors that determine the business environment of developed markets and nations. • Appreciate the factors that determine the business environment of developing markets and nations. • Show an understanding of how the relations between businesses and governments are affected by globalization.				
Prerequisites	None	Required	None		
Course Content	1. Introduction to international and global business 2. International and global culture 3. Corporate Social Responsibility (CSR) 4. Ethics and morals 5. Economic systems and related markets 6. International trade 7. Economic integration and cooperation 8. National and international strategies for businesses 9. Different forms of business ownership 10. International business governance 11. International and global marketing 12. International and global supply chain and operations 13. International and global financial management 14. International and global human resources management				
Teaching Methodology	Lectures, seminars, in-class activities, case studies, video clips.				
Bibliography	***Greek Bibliography:*** • Griffin, R. and Pustay, M. (2018), Διεθνείς Επιχειρήσεις και Επιχειρηματικότητα, ISBN: 960-418-770-8 • Μπιτζένης, Α. και Μανωλόπουλος, Δ. (2019), Η Διεθνοποιημένη Επιχείρηση τον 21ο αιώνα, ISBN: 9786185304737				

	English Bibliography: • Hill, C. and Hult, T. (2020), International Business: Competing in the Global Marketplace, 13th ed., McGraw-Hill Education, ISBN: 9781260575866 . • Peng, M. and Meyer, K. (2019), International Business, 3rd ed., Cengage Learning EMEA, ISBN: 9781473758438 • Wild, J. and Wild, K. (2019), International Business: The Challenges of Globalization, 9th ed., Pearson, ISBN: 978-1292262253.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

39.

Course Title	Pharmacy Law				
Course Code	LAWS307				
Course type	Theoretical				
Level	Bachelor				
Year / Semester	3rd Year / 6th Semester				
Teacher's name	Charalampous Agis				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course provides students with the essential knowledge of important legal regulations concerning the medical and pharmaceutical practice. The students will be prepared to work as medical representatives following the up-to-date existing regulations. Furthermore, the course aims to introduce students to themes that relate to the structure, organization and function of the legal and judiciary power of the Republic of Cyprus as well as of European Union and of the international organizations that are involved with health related issues. Moreover, this course discusses the most important Bioethics issues (ethical dilemmas for the biomedical advances) as well as the European regulations with regard to the management of personal data (GDPR).				
Learning outcomes	By the end of the course, students are expected to: • Understand the organization and operation of the Cypriot state • Know of the theory of the European Pharmaceutical law. • Understand the various topics that are connected with the legal regulations of pharmaceutical products. • Distinguish the two state powers (Legislative and Judicial). • Explain basic information about matters that concern the pharmaceutical law. • Understand and adjust to the relative pharmaceutical regulations connected to his/her profession. • Understand bioethics- ethical dilemmas in the modern society. • Be aware of the competences and special committees of the EU. • Understand and be conscious of personal data management issues.				
Prerequisites	None	Required	None		
Course Content	1. The structure, organization and functioning of the state of Cyprus 2. The physical entities of public justice (36 semi-governmental organizations) 3. Basic information for the European Union 4. Special organizations and decentralized parts of the European Union 5. Responsibilities of the European Union 6. International organizations that deal with health issues 7. Medicinal products for human use, laws 2001 - 2012 (Quality monitoring, Supplies and Pricing) 8. The narcotic drugs and Psychotropic substances laws 9. The medical representative laws 74 (I) 2002 and the Modified Law 248(I) 2004 10. The food supplements law of 2004 11. Ethical guidelines in pharmaceutical products promotion 12. Introduction – Principles of Bioethics 13. International and national Bioethics committees and connected regulations 14. Discussion about the following matters:				

	Cloning (reproductive cloning and therapeutic cloning), Assisted reproductive technology (techniques, methods, ethical dilemmas), Euthanasia, Organ transplantations – Brain death, etc. 15. Regulatory framework for the conduct of studies on people within the European Union and our own country 16. European regulation for the management of personal data (GDPR)
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • KES College (2012), Φαρμακευτική Νομοθεσία, Οι Περί Φαρμάκων Ανθρώπινης Χρήσης (Έλεγχος Ποιότητας, Προμήθειας και Τιμών) Νόμοι του 2001 έως 2010 και οι διδασκόμενες συναφείς νομοθεσίες της Κυπριακής Δημοκρατίας. • Καπώνη Π. (2006), Επίτομος Φαρμακευτική Νομοθεσία, Εκδόσεις Φαρμακευτικός Κόσμος, Αθήνα , ISBN: 9608682924. • Παπαδάκη, Λίνα (2017), Ζητήματα ηθικής φιλοσοφίας και βιοηθικής: Καντιανές προσεγγίσεις, Νήσος, ISBN 978-960-589-059-9. • Γκόλνα Χ. (2005), Φαρμακευτική πολιτική στην Ελλάδα και την Ευρώπη, Εκδόσεις Παπαζήση, Αθήνα, ISBN: 9600218404. • Συλλογικό έργο (2014), Εισαγωγή στη βιοηθική: Ιστορικές και συστηματικές προσεγγίσεις, Σύγχρονη Παιδεία, ISBN 978-960-357-119-3. • Καζάζη, Νίκος (2011), Pharma marketing: Φαρμακετικό μάρκετινγκ θεωρία, πρακτική, δεοντολογία, Αθ. Σταμούλης, ISBN: 9789603518716. ***English Bibliography:*** • Moini, Jahangir (2010), Law & Ethics for Pharmacy Technicians, Delmar Cengage Learning, Clifton Park, NY, ISBN: 978-1-4283-1102-2. • Plomer, Aurora (2005), The law and ethics of medical research, Cavendish, London, ISBN: 1-85941-687-X. • Mepham, Ben T. (2005), Bioethics: an introduction for the biosciences, Oxford University Press, Oxford, ISBN: 0-19-926715-4. • Singer, Peter A. (2008), The Cambridge textbook of Bioethics, Cambridge University Press, Cambridge, ISBN: 978-0-521-69443-8. • Valverde, J. L. (2005), The challenges of the new EU pharmaceutical legislation, IOS Press, ISBN: 1586035215.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

40.

Course Title	Practical Training				
Course Code	PRCT323				
Course Type	Practical				
Level	Bachelor				
Year / Semester	3rd Year / 6th Semester				
Teacher's Name	Miliotou Androulla				
ECTS	10	Lectures / week	7	Laboratories / week	0
Course Purpose and Objectives	The aim of the Practical Training is the practical application of the knowledge and skills acquired during the studies of the students into the scientific subject of the Medical Representative. Practical Training takes place during the 6th semester of studies and requires the concrete engagement of the students in related businesses. During their Practice students are trained in the scientific promotion of pharmaceuticals. The Practical Training is carried out in close collaboration and with the guidance of a supervising member of the academic staff who teaches at the Program and has been appointed as a Student Supervisor.				
Learning Outcomes	Upon successful completion of the Practical Training, the students will be in a position to: • Apply the theoretical knowledge in practice • Gain work self-confidence. • Develop communication skills with clients and collaborators. • Acquire management skills. • Expands his/her knowledge in the area of the promotion of pharmaceuticals. • Manage issues successfully.				
Prerequisites	None			Required	None
Course Content	During the Practical Training, the employer works with the responsible supervisor for each student. The instructor visits the students' and he/she is informed about their work role and how they handle it. The supervisor observes and monitor the progress of the student via the Practical logbook and takes notes while he is in constant contact with the employer in order to assess the student's performance and to solve any potential problems. At the end of the Practical Training period, the supervisor, takes into account the employer's assessment report, and he/she carries out a final evaluation of the activities of each student during their work. If the Practical Training is not completed, or the student fails in his / her final assessment, then he / she is obliged to retake the Practical training in the next academic year.				
Teaching Methodology	Students must complete 84 hours of Exercise during the 6th semester. Students are guided through their Practical Training and they are regularly monitored by the responsible supervisor who periodically supervises them at their Practice place (workplace).				
Bibliography	--				
Assessment	During their Practical Training the students are systematically evaluated by the responsible employee of the company they were allocated at and their assessments are recorded in the Practical LogBook. At the same time, the Supervisor visits each student at his place of work during his / her Practical				

	Training and for each visit he/she records his / her comments in the Practical Logbook. Based on the above, the responsible supervisor evaluates the students on a scale of "Excellent", "Very Good", "Almost Good", and "Failure".
Language	Greek

41.

Course Title	Marketing Research				
Course Code	MRKT402				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year/ 7th Semester				
Teacher's Name	Kyriakidou Stella				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of the Marketing Research course is to make students aware of the necessity of marketing research, to know the preparation and implementation techniques and to be able to make the most of the marketing research tool at their disposal.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Understands the necessity of a market research • Understands the necessity of collecting secondary data • Draw a plan for collecting secondary data • Know how to collect primary data • Understands how to plan a collection of primary data • Know and formulate the various types of questions • Design a questionnaire • Know the different methods of sample selection • Specify sample population • Plan qualitative research • Know the methods of motivation research.				
Prerequisites	MRKT100	Required	None		
Course Content	Introduction to Market Research Science: Historical Review, Marketing Research or Market Research, General Research Applications, Research Codes, Code of Conduct and Market Research, Mandatory Behavior, Secondary Research: What is Secondary Research, Aim of the Basic Information Collection, Stages of Secondary Research, Secondary Element Concentration Plan, Methods of Concentration of Primary Elements: Interview Methods - Contact Methods, Personal Interview, Postal Research, Telephone Research, Observation, Questions - Questionnaire: Questionnaire Discipline, Types and Rules of Questionnaire Editing, Sampling: Sampling Types, Sampling Patterns, Sample Selection Method, Sample Weighting, Sampling and Sample Size, Qualitative Research, What Quality Techniques Used, Qualitative Research, Plan for the Development of a Qualitative Marketing Survey, Techniques for Concentration of Qualitative Primary Elements, Measurement of Stop, Study of Incentives, Emotional and Logic Market Incentives, Incentive Research Methods, Market Research and Communication - Advertising, Market Advertising and Market Research, Message, Choice of Advertising Message, Market Research and New Product, New Test Product, Market Research and Experiment, Market Test, Test Items, Research and Forecasting.				
Teaching Methodology	The content of this course will be taught through: PowerPoint slides presentation guided discussions with students' active participation, individual and teamwork on the part of students, and the use of various supervisory tools to teach of unity.				
Bibliography	***Greek Bibliography:*** • Πετράκης, Μιχάλης (2011), Έρευνα marketing , 3η Έκδοση, Αθ. Σταμούλης, ISBN: 9789603518754.				

	• Τηλικίδου, Ειρήνη Ι. (2004), Η Έρευνα του Μάρκετινγκ, Ελληνικά Γράμματα Α.Ε., ISBN: 960-406-954-3. • Πασχαλούδης, Δημήτριος (2018), Εισαγωγή στο μάρκετινγκ, Τζιόλα, ISBN 978-960-418-798-0. • Kotler, Philip (2006), Μάρκετινγκ μάνατζμεντ, Εκδόσεις Κλειδάριθμος, ISBN: 9602099259. ***English Bibliography:*** • Holdford, David A. (2007) Marketing for pharmacists, American Pharmaceutical Association, ISBN: 9781582121062. • Kotler, Philip & Keller, Kevin Lane (2012), Marketing management, 14th edition, Prentice Hall, ISBN: 9780132102926. • Doyle, Peter (2006), Marketing management and strategy, Prentice Hall, ISBN: 0-273-69398-0.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

42.

Course Title	Human Resource Management				
Course Code	HRMG400				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year/ 7th Semester				
Teacher's Name	Kyriakidou Stella				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The purpose of the course is to introduce students to the basic knowledge and principles necessary for the human resource management in organizations.				
Learning Outcomes	By the end of the course, students are expected to be able to: • Understand the human resource management from a systematic and strategic perspective • Describe the area of "human resources management" and understand their relationship with directors and employees in different workplaces. • Describe the fundamental laws of the employment of human resources • Carry out job analyses and take into account the requirements of a job in order to apply their knowledge to other areas of human resource management. • Recognize key tools for staff management such as staff performance appraisal, and understand details of human resources management practices • Apply the relevant theories to the practical management of employees of an organization • Analyze business challenges related to human resources systems • They can objectively assess relevant policies and practices related to human resources • Use electronic means to conduct and analyze data on human resources.				
Prerequisites	None	Required	None		
Course Content	• Fundamentals of Human Resource Management (HRM) • The general legal framework of HRM • Employee Rights and Sexual Harassment • Recruitment and Selection • Socialization, Orientation and Development • Benefits and fees • Performance Score • Ethics in HRM and working relationships • Safety and Health • Global View of Human Resources				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, guided discussions with students' active participation, individual and teamwork on the part of students, and the use of various supervisory tools to teach of the course.				
Bibliography	***Greek Bibliography:*** • Παπαλεξανδρή, Νάνσυ (2016), Διοίκηση ανθρώπινου δυναμικού, Εκδόσεις Ε. Μπένου, ISBN: 9789603591245. • Dessler, Gary (2015), Διοίκηση ανθρώπινου δυναμικού: Βασικές έννοιες και σύγχρονες τάσεις, Εκδόσεις Κριτική,				

	ISBN: 9789605860769 • Τερζίδης, Κώστας & Τζωρτζάκης, Κώστας (2004), Διοίκηση ανθρωπίνων πόρων, Rosili, ISBN: 960-7745-11-6. • Τζωρτζάκης, Κώστας & Τζωρτζάκη, Αλεξία-Μαίρη (2007), Οργάνωση & διοίκηση: Το μάνατζμεντ της νέας εποχής, Rosili, ISBN: 9789607745217. ***English Bibliography:*** • Armstrong, Michael (2017), Armstrong's handbook of human resource management practice, Kogan Page, ISBN: 9780749474119. • Pynes, Joan E. (2009), Human resource management for public and nonprofit organization: A strategic approach, Wiley, ISBN: 978-0-470-33185-9. • Boxall, Peter & Purcell, John (2007), The Oxford handbook of human resource management, Oxford Univ. Press, ISBN: 978-0-19-928251-7
Assessment	• Class Participation 10% • Assignments / Projects 10% • Intermediate Written Examination 30% • Final Written Examination 50%
Language	Greek

43.

Course Title	Integrated Marketing Communication				
Course Code	MRKT403				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is to offer to the students, practical knowledge which will help them understand how a business develops and applies integrated marketing communication programs. The course will also help the students to understand how they can successfully manage a project, how to develop a fruitful relationship with the customer and how to sell their own ideas as employees of a business.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Acquire the necessary knowledge for the effective communication of messages that give added value to a product or service for the customers • Understand the role of the elements entailed in the marketing communication mix for the design of an integrated marketing communication system within a company • Develop creative, analytical and critical skills through the practical application of the five elements entailed in the marketing communication mix of the company				
Prerequisites	MRKT100	Required	None		
Course Content	1.Integrated marketing communication 2. Corporate image and management of trademarks 3. Consumer behavior 4. Promotions opportunity analysis 5. Advertising management 6. Advertising design 7. Advertising design 8. Traditional media channels 9. E-Active marketing 10. Alternative marketing 11. Database and direct response marketing 12. Sales promotions 13. Evaluating an integrated marketing program				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Belch, George E. (2018), Διαφήμιση και προώθηση: Ολοκληρωμένη επικοινωνία μάρκετινγκ, Τζιόλα, ISBN 978-960-418-533-7. • Μπόγκα-Καρτέρη, Καίτη (2005), Επικοινωνία: Ανθρώπινη/ επιχειρησιακή θεωρία και εφαρμογές, University studio press, ISBN: 960-12-1408-9.				

	• Cornelissen, Joep (2016), Εταιρική επικοινωνία, Δίαυλος, ISBN: 9789605313548. ***English Bibliography:*** • Rob Nolasco (2011), Marketing communications: Integrating offline and online with social media, Kogan Page, ISBN: 9780749461935.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

44.

Course Title	Pharmacoeconomics				
Course Code	ECON402				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th Semester				
Teacher's Name	Savvidou Katerina				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to highlight the importance of the health and medicine economy, to familiarize students with the basic concepts of pharmacy and to know the cost of creating a drug and the cost of curing a disease.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Understand the role of the medicine economics in health economics and in particular in making rational and documented decisions. • Know basic cost concepts and data collection methods. • Understand and distinguish different methods of economic evaluation. • Know how to apply different methods of economic analysis for the evaluation of medicines and medical technologies. • Exploit the data of medicines economics research in the quality of life assessment • Use the results of the therapeutic outcome in the decision making process • Design basic medicine-economics analysis including all relevant parameters				
Prerequisites	None	Required	None		
Course Content	1. Introduction to Pharmacoeconomics 2. Measuring and estimating costs 3. Critiquing Research Articles 4. Cost Minimization Analysis (CMA) 5. Cost Effectiveness Analysis (CEA) 6. Cost Utility Analysis (CUA) 7. Cost Benefit Analysis (CBA) 8. Health Related Quality of Life 9. Decision Analysis				
Teaching Methodology	The content of this Course will be taught through: PowerPoint presentation, diagrams and table use guided discussions with students' active participation, individual and teamwork on the part of students, and the use of various supervisory tools to teach the course.				
Bibliography	***Greek Bibliography:*** • Υφαντόπουλος, Γιάννης Ν. (2018), Τα οικονομικά της υγείας: Θεωρία και πολιτική, Τυπωθήτω, ISBN 978-960-402-093-5. • Κυριόπουλος, Ιωάννης Η. (2011), Τα οικονομικά της υγείας: Γλωσσάριο βασικών όρων και εννοιών, Εκδόσεις Παπαζήση, ISBN 978-960-02-2446-7. ***English Bibliography:*** • Karen Rascati PharmD PhD (2013), Essentials of Pharmacoeconomics, LWW, Second edition, ISBN: 978-1451175936.				

	• Lorenzo Pradelli (2012), Pharmacoeconomics: Principles and Practice, 1st Edition, SEEd Medical Publishers, ISBN: 978-8897419372.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

45.

Course Title	Specialized Pharmacology: Formulation				
Course Code	PHRM308				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th Semester				
Teacher's Name	Savvidou Andria				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is for the student to acquire knowledge of the names of the most often prescribed medication				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Understand and use the BNF and other medical manuals • Recognize the active ingredient(s) of every medication • Become familiar with the names of the most often prescribed medications • Understand the basic theory used in coping with poisoning • Explain the use (mainly in terms of the indications and mechanism of action) and the limitations of the medication that is used in the treatment of obesity, osteoporosis and erectile dysfunction • Explain the use (mainly in terms of the indications and mechanism of action) of the anti-cancer medication				
Prerequisites	PHRM210, PHRM217	Required	None		
Course Content	• Introduction • The BNF (British National Formulary) • General overview of the BNF • Contents and methods of using the BNF • Addition of new active ingredients to the BNF • BNF annexes • Medicinal interactions • Coping with poisoning - Poisoning and therapy - General coping - Therapy - Special antidotes - Chelating compounds • Medication related to the: gastrointestinal system, circulatory system, respiratory system, central nervous system, prevention of infections, genital system, musculoskeletal system, nutrition of humans and other types medication				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a variety of visual and other teaching aids as required for the delivery of each unit.				
Bibliography	***Greek Bibliography:*** • Ιατρικές Εδόσεις Λίτσας, (2011), Ιατροφαρμακευτικός Οδηγός, Ιατρικές Εκδόσεις Λίτσας, Αθήνα, ISBN: 9789603721024.				

	• Mycek, Mary J. & Harvey, Richard A. (2007), Φαρμακολογία: Με πλούσια διδακτική • εικονογράφηση, Παρισιάνου, ISBN: 978-960-394-502-4 • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία Ι: Γενική φαρμακολογία, Λύχνος, ISBN: 960-6607-28-3. • Τσόχας, Κωνσταντίνος Αθ. (2009), Κλινική φαρμακολογία ΙΙ: Ειδική φαρμακολογία, Λύχνος, ISBN: 960-6607-29-1. • Μάνικας, Γεώργιος Α. (2004), Κλινική φαρμακολογία και φαρμακευτικός οδηγός, Ιατρικές εκδόσεις Π.Χ. Πασχαλίδης, ISBN: 960-399-238-0. • Κουρουνάκης, Πάνος Ν., Ρέκκα, Ελένη Α. (2014) Γνωριμία με τη συναρπαστική επιστήμη των φαρμάκων, Εκδόσεις Κυριακίδη Μονοπρόσωπη ΙΚΕ, ISBN: 978-618-80941-6-1. • Aulton, Michael E. (2017), Aulton φαρμακευτική: Σχεδιασμός και παρασκευή φαρμάκων, Παρισιάνου Α.Ε., ISBN 978-960-583-216-2. ***English Bibliography:*** • British Medical Association (2018), BNF 75, British Medical Association, ISBN: 978-0857113313. • Generali Joyce A., (2005), The Pharmacy Technician's Pocket Drug Reference, Publisher: American Pharmaceutical Association, ISBN: 1582120633. • Waller, Derek G. (2005), Medical pharmacology and therapeutics, Elsevier Saunders, ISBN: 0-7020-2754-5. • Neal, Michael J. (2005), Medical pharmacology at a glance, Blackwell Pub, Malden, Mass, ISBN: 1-4051-3360-0. • Katzung, Bertram G. (2007), Basic and clinical pharmacology, Lange Medical Books/McGraw Hill, ISBN: 9780071451536. • Roach, Sally S. (2008), Introductory clinical pharmacology, Lippincott Williams & Wilkins, ISBN: 9780781775953. • Kaiser, Cristina (2010), The pharmacy technician's, Wolters Kluwer/Lippincott Williams & Wilkins, 978-007817-9814-3. • Rutter, Paul (2017), Community pharmacy: symptoms, diagnosis and treatment, 4th edition, Elsevier, ISBN: 978-0702069970 • Waterfield, Jon (2008) Community Pharmacy handbook, Pharmaceutical Press, ISBN: 978-0853697169.
Assessment	• Class Participation 10% • Assignments / Projects / Tests 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

46.

Course Title	Thesis I				
Course Code	PROJ413				
Course Type	Theoretical and Practical				
Level	Bachelor				
Year / Semester	4th Year / 7th Semester				
Teacher's Name	Miliotou Androulla				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	Thesis I is the starting point of the dissertation preparation, in a specialized topic assigned to each student under the supervision of a Thesis Supervisor. The aim of this course is the submission of a progress report addressing the research questions, methodology to be applied and a basic outline of the student's dissertation introduction.				
Learning Outcomes	Upon the completion of the course, the student is expected to: • Recognize, identify, delimit a specific health science research problem. • Collect systematically and critically the related literature. • Compose the appropriate research methodology to approach the problem. • Organize the appropriate protocol for the elaboration of the research. • Be able to prepare a 3-4 page progress report outlining the purpose and the basic structure of his/her dissertation.				
Prerequisites	MEDI204, PROJ325	Required	None		
Course Content	The Academic Staff participating in Thesis supervision will be PhD holders covering at least one of the below defined scientific areas. **Step 1: Type of Dissertation** The student will have to choose between two types of dissertation: A. Type A, based on already available data sets or metadata analysis, statistical analysis and literature review. B. Type B, based on first hand data collection using questionnaires or lab work, statistical analysis, and literature review. **Step 2: Thesis Scientific Areas** Students will have a choice for the Scientific field of their Thesis based on five (5) Scientific Areas: 1. Management - Pharmaceutical Marketing - Entrepreneurship 2. Pharmacology and Therapeutics 3. Pharmaceutical Technology 4. Medical / Pharmaceutical Achievements 5. Pharmaceutical Chemistry At least one member from the supervising Academic Staff pool will be assigned to each Scientific Area according to their expertise. **Step 3: Selection of Thesis Topic/ Formation of Evaluation Committee** Each student applies for a topic by filling in the appropriate form. The application will be evaluated by the corresponding Thesis Supervisor in collaboration with the Program's Coordinator. After the acceptance of the application (by the 3rd week of the 7th semester) two additional members out of the supervising Academic Staff pool will be appointed to form a Three-Member Thesis Evaluation Committee.				

Teaching Methodology	Interpersonal meetings of each student with his/her Thesis Supervisor, at regular time intervals, either in pre-arranged meetings at KES college or online, in order to provide guidance, organize the implementation of the dissertation and receive feedback on the progress of the work.
Bibliography	• KES College, “Guidelines for assignments and theses”. • The choice of the bibliography is based on the student's Thesis topic.
Assessment	Thesis evaluation is separated in two phases. **Phase I** corresponds to the end of the Thesis I module, where the student will need to submit a 3-4-page progress report that will include the research questions to be addressed, the methodology to be applied plus the basic outline of the Introduction. The report is evaluated by his/her Three-Member Evaluation Committee and graded with PASS or FAIL. If the student obtains a PASS then he/she can continue to Phase II (Thesis II), otherwise he/she will need to resubmit the report within 1 month. If he/she fails again, then he/she has to repeat the course. At least two of the Three-Member Evaluation Committee have to agree in order for the student to obtain a PASS..
Language	Greek

47.

Course Title	E - Marketing				
Course Code	MTKT313				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 8th Semester				
Teacher's Name	Yerocosta Costas				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The main objectives of this course, are for the students to: • Develop an understanding of the past, present and future opportunities entailed in digital marketing and the characteristics of digital consumers • Understand strategic planning and the means with which organizations aim to achieve their targets through tactics and strategies that relate to digital marketing and the digital way of doing business • Formulate a digital marketing plan • Explain why and how the digital traders create research / questionnaires using traditional marketing tools and the ways that knowledge of these can be translated into practice • Analyze and develop consumer and business products • Understand the ways with which the traditional marketing mix is similar and different to digital marketing determinants of success				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Understand the basic principles and concepts of digital marketing • Understand the structure and mechanisms of digital markets and the ways that websites can help create additional income • Evaluate the ways with which marketing research over the internet can allow traders to formulate appropriate strategic rules over consumer behavior • Distinguish the traditional from the online marketing mix of a company and the ways that these have to be adjusted according to the market and its value added principles and determinants				
Prerequisites	MRKT403	Required	None		
Course Content	• Past, present and future of marketing • Strategic evaluation of digital marketing metrics and performance • Digital marketing plan • Digital marketing research • Digital / online consumers • Product: the digital offer • Price: the digital value • Internet and distribution • Digital marketing communication: ownership rights, profit and rewards related to specific communication tools				
Teaching Methodology	The content of this course will be taught through: PowerPoint presentations, the use of a board, guided discussions with the active participation of students, individual and team work on the part of students, and the use of a				

	variety of visual and other teaching aids as required for the delivery of each unit.
Bibliography	***Greek Bibliography:*** • Μπάλτας, Γεώργιος (2018), Επιχειρησιακή αναλυτική και ποσοτικά υποδείγματα μάρκετινγκ και διαδικτύου, Rosili, ISBN 978-618-5131-51-7. • Βλαχοπούλου, Μάρω (2014), Ηλεκτρονικό επιχειρείν και μάρκετινγκ : Καινοτόμα μοντέλα σε ψηφιακό περιβάλλον, Rosili, ISBN 978-960-7745-32-3. • Κυριαζόπουλος, Παναγιώτης Γ. (2002), E-Marketing: Η συμπεριφορά του ηλεκτρονικού καταναλωτή, Σύγχρονη Εκδοτική, ISBN 960-8165-30-Χ. ***English Bibliography:*** • Pushkov, Sergey (2016) Internet marketing: top 10 most effective strategies, Createspace Independent Publishing, ISBN: 978-1523698394.
Assessment	• Class Participation 10% • Assignments / Projects 30% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

48.

Course Title	Project Management				
Course Code	PROJ403				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 8th Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	6	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The course aims to introduce students to the way they manage processes to successfully undertake a project in terms of planning, organizing, managing and controlling resources at a particular time in order to achieve a set of goals.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: •Understand project management design, development, and deployment Select and apply project management tools, techniques, and skills •Describe the design process of a project •Define the budget, scheduling and project implementation •Describe the project monitoring and control procedures Identify and apply key performance metrics for project success				
Prerequisites	None	Required	None		
Course Content	•Introduction to Project Management •Life cycle of a project •Critical Project Factors - Feasibility Study •Specification of requirements •Project Selection - Project Estimate •Programming and control cycle •Critical route method •Schedules-Programming Resources •Project Accounting •Project Audit - Certified Value •Quality Management-Risk Management •Project Communication - Organization - Groups				
Teaching Methodology	Lectures, Use of Audiovisual media, Exploratory method, Collaborative method, Work Plan (project method).				
Bibliography	***Greek Bibliography:*** • Ζαφειρόπουλος, Κώστας (2015), Πώς γίνεται μια επιστημονική εργασία: Επιστημονική έρευνα και συγγραφή εργασιών, Κριτική, ISBN 978-960-586-077-6. • Θεοφιλίδης, Χρήστος (2002), Η συγγραφή επιστημονικής εργασίας: Από τη θεωρία στην Πράξη, Γ. Δαρδάνος, ISBN: 960-7643-11-9. • Μερακλής, Βάσος (2012), Οδηγός για τη συγγραφή επιστημονικής εργασίας: Μελέτη/Έρευνα, KES College. • Bell, Judith (2005), Πώς να συντάξετε μια επιστημονική εργασία: Οδηγός ερευνητικής μεθοδολογίας, Αθήνα, Μεταίχμιο, ISBN: 9789604551309. ***English Bibliography:*** • Kerzner, Harold(2017),Project Management,12th, John Wiley & Sons,ISBN: 978-1-119-16535-4.				

	• Lock, Dennis(2007), Project management,9th, Gower,ISBN: 978-0-566-08772-1. • J.R. Meredith, S.M. Shafer, S.J. Manter Jr. and M.M. Sutton, Project Management in Practice, 6th Ed. **E-book**, Wiley ISBN 978-1-119-29860-1
Assessment	• Class Participation 10% • Assignments / Projects 30% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

49.

Course Title	Operations Management				
Course Code	MGMT407				
Course Type	Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 8th Semester				
Teacher's Name	Dr. Karagiannis Achilleas				
ECTS	6	Lectures / week	3	Laboratories / week	
Course Purpose and Objectives	The aim of the course is to introduce students to the Operations Management concepts, principles, problems and practices and on the administrative procedures related to the efficient function both in terms of product production and service provision in organizations.				
Learning Outcomes	Upon successful completion of the course, the students will be in a position to: • Understand the basic principles of Operations Management • Understand the production function and the management of operations in each organization. • Become aware of the factors that affect production and products and services. • Be aware of the main problems faced by operating managers in a variety of businesses and service organizations and ways to effectively resolve them. • Understand the importance of productivity and competition both in organizations and at international level. • Know the importance of efficient production and operation management in an organization.				
Prerequisites	None	Required	None		
Course Content	•Introduction to Operations Management •Operations Strategy • Process design •Design of products and services of production systems •Job design •Costing - productivity and capacity of production systems •Project management •Inventory Management (EOQ), Just-In-Time (JIT) Systems, Lean Synchronization •Enterprise Resource Management (ERP)				
Teaching Methodology	Lectures, demonstrations, discussions, group exercises and works, visits, presentations by visitors, case studies and examples				
Bibliography	***Greek Bibliography:*** • Robert Jacobs, F. (2017), Διοίκηση λειτουργιών και εφοδιαστικής αλυσίδας, Ιατρικές Εκδόσεις Π. Χ. Πασχαλίδης, ISBN 978-960-489-149-8. • Ξανθόπουλος, Αλέξανδρος (2018), Διοίκηση παραγωγής και επιχειρησιακών λειτουργιών: Σχεδιασμός, προγραμματισμός και έλεγχος σε συστήματα παραγωγής και υπηρεσιών, Τζιόλα, ISBN 978-960-418-692-1. • Reid, R. Dan (2016), Διοίκηση επιχειρησιακών λειτουργιών, Κριτική, ISBN 978-960-586-044-8.				

	English Bibliography: • William J Stevenson (2015), Operations Management,12th, McGraw-Hill Education, ISBN: 978-0-07-802410-8 . • Nigel Slack(2019),Operations Management ,9th,Pearson, ISBN: 9781292253961.
Assessment	• Class Participation 10% • Assignments / Projects 30% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

50.

Course Title	Thesis II				
Course Code	PROJ414				
Course Type	Theoretical and Practical				
Level	Bachelor				
Year / Semester	4th Year / 8th Semester				
Teacher's Name	Miliotou Androulla				
ECTS	8	Lectures / week	4	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is the proper use of knowledge and skills related to the process of conducting scientific work in order to advance students in the writing of their thesis in a topic relevant to a selected Scientific Area. An additional objective of the ThesisII is the students to complete their bachelor thesis.				
Learning Outcomes	Upon the completion of the course, the student is expected to: • Collect, analyze and present the necessary data, • Evaluate and document the findings of his/her research, • Discuss and compare the dissertation conclusions in relation to existing knowledge. • Be able to write a research based thesis of at least ten thousand (10,000) words in a subject relevant to the program. • Be able to present a final short oral presentation, regarding his/her dissertation in front of the Three-Member Thesis Evaluation Committee.				
Prerequisites	MEDI204, PROJ325, PROJ413	Required	None		
Course Content	The final dissertation manuscript is prepared and completed. The student is obliged to submit the Thesis manuscript 20 days prior to the set date of the presentation to the members of the Evaluation Committee, after having received the consent of the Thesis supervisor. The final Thesis is submitted in two book bound copies and in two copies in electronic format (pdf), one of which for the Central Library of the College and the other for the Program of MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING. Bibliographical references list should contain at least 50% titles from 2012-present and should be based on prestigious scientific journals and books. References should be cited at all points of the Thesis where the source has been used and should be based on the rules established by the American Psychological Association (APA Style). The oral presentation of the dissertation is organized after each examination period and the student does not have the right to graduate if he/she does not complete the Thesis process. The presentation is made in PowerPoint and should not exceed 20 minutes, with 15 minutes as the minimum duration time, while the slides that are presented should be configured for the presentation using bullet points and not with excerpts from the pages of the text. The student should be able to present the work in his / her own words. After the presentation, there is a discussion based on the questions of the Three-Member Committee.				

Teaching Methodology	Interpersonal meetings of each student with his/her Thesis Supervisor, at regular time intervals, either in pre-arranged meetings at KES college or online, in order to provide guidance, organize the implementation of the dissertation and receive feedback on the progress of the work.
Bibliography	• KES College, “Guidelines for assignments and theses”. • The choice of the bibliography is based on the student's Thesis topic.
Assessment	The evaluation of Thrsis II is based on the Final Thesis Manuscript grade (85% of total grade) and on the Final Oral Presentation grade in front of the Three-Member Evaluation Committee (15% of total grade) exclusively within a time period set by the Program Coordinator (before the Graduation of the academic year). Final Thesis II Grade = 0,85 x (Final Thesis Manuscript Grade) + 0,15 x (Final Oral Presentation Grade) <u>Evaluation of the Final Thesis Manuscript</u>: Work Plan and Structure… 10% Literature Review… 20% Methodology, Data Collection & Analysis 35% Findings / Results, Discussion and Conclusions 35% The grade for the Final Thesis Manuscript is calculated considering 70% weight for the grade given by the student’s supervisor and 30 % for the average grade of the other two members of the Evaluation Committee. <u>Evaluation of the Final Oral Presentation</u>: Oral presentation (e.g. in power point format) and the student is asked to answer questions from the Three-Member Committee. Three Members Committee on an equal basis will determine the final score of the oral presentation. The Thesis II is assessed using the 1 – 100 scale, with 60/100 as the passing mark. In case of failing in Thesis II, a new evaluation date is set at least three (3) months after the first evaluation. In this case, the Three-Member Examination Committee delivers a detailed report to the student with the changes or improvements that need to be made in the Final Thesis Manuscript.
Language	Greek

51.

Course Title	Bioinformatics				
Course Code	BIOL400				
Course Type	Elective – Theoretical and Practical				
Level	Bachelor				
Year / Semester	4th Year / 7th or 8th Semester				
Teacher's Name	Dr. Oulas Anastasios				
ECTS	4	Lectures / week	1	Laboratories / week	1
Course Purpose and Objectives	The aim of this course is to cover basic aspects of Bioinformatics and to investigate the role of Bioinformatics in Health Sciences. Emphasis is placed on several Bioinformatics tools and on the use of the most common databases, thus students will understand searching, analysing and synthesizing data and information, using the necessary technologies.				
Learning Outcomes	By the end of the course, students are expected to: • Select and apply the most suitable databases and tools for each task in Bioinformatics applications. • Understand and implement the Bioinformatics applications. • Apply and exercise basic and simplified bioinformatics analysis, using the most common bioinformatics tools online.				
Prerequisites	BIOL104	Required	None		
Course Content	1. Introduction to bioinformatics main concepts, methods and applications, as well as data generation. 2. The relation between bioinformatics and molecular biology. 3. The most common bioinformatics tools e.g. FASTA, BLAST, BLAT, RASMOL and databases GENBANK, Pubmed, PDB. 4. General Introduction of Biological Databases, like • Nucleic acid databases (NCBI, DDBJ, and EMBL). • Protein databases (Primary, Composite, and Secondary), etc. 5. Introduction to sequences and alignments (e.g. pairwise alignments utilizing BLAST and FASTA algorithms and multiple sequence alignments using Clustal W algorithm) 6. Evolution models. Construction and evaluation of phylogenetic trees. 7. Future developments in bioinformatics and computational biology. 8. Applications of bioinformatics (with emphasis in therapeutics and diagnostics). 9. Basic principles of ggeneration of large scale molecular biology data, through genome sequencing (i.e. next generation sequencing (NGS), protein sequencing (i.e. mass spectrometry), gel electrophoresis, NMR spectroscopy, X-ray diffraction and microarrays. <u>Practical Exercises:</u> The students will practice on the main databases and web tools that implement the above methods through hands-on exercises: 1] Literature Databases (PubMed, PubMedCentral, OMIM, Books, Citation Matcher), research at NCBI. 2] Find similar sequences for any nucleotide and protein query sequence using BLAST and FASTA. Use of tools to find homology 3] Searching and retrieval of nucleotide sequences from GenBank database, retrieval of protein sequences from "SWISS-PROT" database and protein structure data using Entrez and protein viewing softwares.				

	4] Use of different online nucleotide and protein alignment tools (Pairwise and Multiple sequence alignment). 5] Construction of phylogenetic trees (Dendrogram, Cladogram, Phylogram, and Chronogram) 6] Analysis, 3D structure and protein interactions (CN3D, STRING, pharmGKB)
Teaching Methodology	The content of this course will be taught through: presentations using PowerPoint and online material, guided discussions with active student participation, individual and teamwork student tasks in the computer laboratory of the college.
Bibliography	***Greek Bibliography:*** • Μπάγκος, Π., 2015. Βιοπληροφορική. [ηλεκτρ. βιβλ.] Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. • Νικολάου, Χ., Χουβαρδάς, Π., 2015. Υπολογιστική βιολογία. [ηλεκτρ. βιβλ.] Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. • Κοσσιδά Σοφία. (2010) Βιοπληροφορική, Ιδιωτική Έκδοση, ISBN-13: 978-960-93-0960-8. ***English Bibliography:*** • Zvelebil, Marketa, and Jeremy Baum(2007), Understanding bioinformatics, Taylor & Francis Inc,ISBN: 9780815340249.
Assessment	• Class Participation 10% • Assignments / Projects 10% • Practical 20% • Intermediate Written Examination 20% • Final Written Examination 40%
Language	Greek

52.

Course Title	Introduction to Competition Law				
Course Code	LAWS406				
Course Type	Elective – Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th or 8th Semester				
Teacher's Name	Charalambous Agis				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is to provide an introductory overview of the main principles of competition law and their application in today's global pharmaceutical economy. Students are invited to focus on the rationale behind the adoption of regimes based on "free" competition and the interplay between competition law and pharmaceutical economics.				
Learning Outcomes	By the end of this course, students will be able to: • Understand the rationale behind the adoption of regimes designed to protect competition in the majority of jurisdictions in the pharmaceuticals world. • Demonstrate the knowledge of, and ability to apply, competition rules in a practical economic situation. • Apply competition rules in an economic context as a Medical Representative professional. • Opine on the pharmaceutical industry/business impact of competition rules.				
Prerequisites	LAWS307	Required	None		
Course Content	Introduction to the key rules and concepts of competition law, with primary focus on: 1. EU competition law. 2. Application of competition law in the global economy. 3. Application of competition law in Pharmaceutical Industry/Companies. 4. Patents - Industrial Property - Intellectual Property. 5. Unfair competition in pharmaceutical industry. 6. "Selling" drugs – Issues of free and unfair competition 7. Medicines advertising through unfair competition and typical violations. 8. Biosimilars. 9. Case studies: • Study and commentary on decisions of the court of law in Cyprus/Greece's Justice System • Study and commentary on decisions of the court of law in European Union Justice System				
Teaching Methodology	Power Point Presentations, case studies with opportunity to present and debate cases				
Bibliography	***Greek Bibliography:*** • Οδηγός Αξιολόγησης Συνθηκών Ανταγωνισμού, ΟΟΣΑ, Τόμος ΙΙ: Κατευθυντήριες • Αθανασίου, Λία Ι. Σωτηρόπουλος, Γεώργιος Δ.(2019), Γενικό μέρος - Βιομηχανική ιδιοκτησία - Πνευματική ιδιοκτησία - Αξιόγραφα - Αθέμιτος ανταγωνισμός, Νομική Βιβλιοθήκη, ISBN-13: 978-960-622-977-0. • Τζίβα,Έφη(2007),Το ηλεκτρονικό εμπόριο φαρμάκων, Σάκκουλας, ISBN: 9789604451555				

	English Bibliography: • Richard Whish and David Bailey (2018) Competition Law ,9th ,Oxford University Press, ISBN: 978-0198779063.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

53.

Course Title	Biotechnological Products Sale Consulting				
Course Code	MRKT404				
Course Type	Elective - Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th or 8th Semester				
Teacher's Name	Savvidou Katerina				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of this course is to introduce students to the concept of the biotechnological product, derived from state-of-the-art technologies. The course emphasizes on the position of biotechnological products in the current pharmaceutical market and on the peculiarities of the product presentation techniques. In essence, it offers a deepening in the science of biotechnology and the effective sale of its products combined with quality service to specialized customers.				
Learning Outcomes	By the end of this course, students will: • Know how to reach customers, who are a "special" segment of the market, with very specialized knowledge and experience. • Be able to inform and present biotechnological products to customers with high accuracy and specialization in the field of biotechnology				
Prerequisites	PHRM310	Required	None		
Course Content	1. Introduction to basic aspects of the nature of the products derived from the Biotechnology field (Development Factors, Peptide Hormones, Vaccines (Antigens), Monoclonal Antibodies, Enzymes and Gene Drugs) 2. Analysis of the biotechnological products' production procedures. 3. First generation biomedicinal products and biosimilars/biogenerics. 4. Biotechnology Products in Europe and the Legislative Framework. 5. The Specificity of Biotechnology Marketing and how to present Biotechnological Products 6. Who are the Biotechnology Products for? 7. Distinguish between "uninformed", "informed, non-buyers" and "potential buyers". 8. Myths and truths - Public opinion 9. Deficiencies/Challenges in Biotechnology Marketing 10. Cost & value of Bio Tech in Marketing 11. Use of Social Sites for the purpose of Marketing, Use of Marketing kits				
Teaching Methodology	Power Point Presentations, class discussion, assignments, case studies				
Bibliography	***Greek Bibliography:*** • Τριανταφυλλίδης, Κωνσταντίνος Δ. (2015) Οικονομία - δίκαιο στη Βιολογία, Έμφαση στη βιοτεχνολογία. Εκδόσεις Κυριακίδη Μονοπρόσωπη ΙΚΕ - ISBN-13: 978-960-599-017-6. • Κουρέτας, Δημήτρης(2007), Η επιλογή της χρυσής τομής :Κείμενα για τα μεταλλαγμένα, τη βιοτεχνολογία και την κοινωνία,Επίκεντρο,ISBN-13: 978-960-458-147-4. ***English Bibliography:*** • Rodney J.Y. and Gibaldi M., Biotechnology and Biopharmaceuticals, Wiley InterScience, Jogn Wiley and Sons, 2003, N. York, USA				

	• Craig Shimasaki (2020), Biotechnology Entrepreneurship: Leading, Managing and Commercializing Innovative Technologies,2nd, Elsevier Science Publishing Co Inc, ISBN-13 : 978-0128155851. • Biotechnology marketing: Insider and outsider views. Päivi Eriksson & Heidi Rajamäki. Journal of Commercial Biotechnology volume 16, pages98–108(2010) • Application and Analysis of Marketing and Management on Biotechnology. (2011) A. Chandra Sekhara Reddy and Dr. C. Anbalagan. International Journal of Research in Management, Science and Technology Vol-1 No-1 • Abbas, et al., 2017: Vol 5(7) Recent Trends in Marketing Biotechnology Abdul Basit, et al.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

54.

Course Title	Parapharmaceutical Products				
Course Code	PHRM400				
Course Type	Elective - Theoretical				
Level	Bachelor				
Year / Semester	4th Year / 7th or 8th Semester				
Teacher's Name	Dr. Pieridou Galatia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course Purpose and Objectives	The aim of the course is to provide students with the essential knowledge of the types, manufacture, maintenance, distribution, use and properties of cosmetics as well as of a wide range of parapharmaceutical products. Furthermore, students will get in touch with the fundamentals of Homoeopathy and its related products.				
Learning Outcomes	By the end of this course, students will to be able to: • know about the preparation of cosmetics at a theoretical level. • know the basic ingredients of cosmetics. • distinguish cosmetics for the skin, for the eyes and lips, for the oral cavity, for the nails, for the hair. • know basic aspects of Homoeopathic Pharmacy and its products.				
Prerequisites	None	Required	None		
Course Content	<u>Cosmetics:</u> • Ingredients of cosmetics (surfactants, moisturizers, preservatives, antioxidants, dyes, odor enhancers, etc.). • Cosmetics for the skin (anatomy and physiology of the skin, creams, face masks, powders, sunscreens). • Cosmetics for eyes and lips (make up eyes, eye shadows, lipstick). • Cosmetic preparations for the oral cavity (toothpastes, mouthwashes). • Cosmetics for nails (varnishes, dyes, hardeners). • Cosmetics for hair (hair anatomy elements, shampoos, hair dyes, hair extensions, hair care products). <u>General concepts and orientation of Homoeopathy:</u> • History of pharmacy with emphasis on emergence of Homoeopathic Pharmacy • Official Homoeopathic Pharmacopoeia (Germany, Britain, U.S.A., India). • Important terminologies like scientific names, common names, synonyms. • Definitions in homoeopathic pharmacy • Weights and measurements. • Nomenclature of Homoeopathic drugs with their anomalies • Source of drugs (taxonomic classification, with reference to utility). • Collection of drug substances. • Homoeopathic pharmacopoeia laboratory – functions and activities, relating to quality control of drugs. • Posology, Concept of placebo, General knowledge of legislation in relation to homeopathic Pharmacy. • Technique of Homeopathic drug proving.				

Teaching Methodology	Power Point Presentations, class discussion, use of audiovisual media, exploratory method, collaborative method, work plans (project method) - assignments.
Bibliography	***Greek Bibliography:*** • Θεοχάρους, Σπύρος Λ. (2018), Η Χημεία των Καλλυντικών, KES College. • Θεοχάρους, Σπύρος Λ. (2013) Εργαστηριακός οδηγός χημείας και κοσμητολογίας, KES College, ISBN: 978-9963285266. • Συλλογικό έργο (2016) Εφαρμοσμένη Κοσμητολογία: Δερματοκαλλυντικά, Παρισιάνου Α.Ε., Αθήνα, ISBN: 978-960-583-151-6. • Estrade, Marie-Noelle, (2010), Κοσμητολογία: Η συμβουλή του φαρμακοποιού, Φαρμακευτικός Κόσμος, Αθήνα, ISBN: 9789609874113. • Βαρβαρέσου, Αθανασία (2011), Ειδική κοσμητολογία, Εκδόσεις Καύκας, ISBN: 9789606650499. • Ευθύμιος Τσιρίβας, Αθανασία Βαρβαρέσου, Σπυρίδων Παπαγεωργίου (2013), Βασικές Αρχές Κοσμητολογίας, Παρισιάνου Α.Ε., ISBN : 978-960-394-920-6. • Βυθούλκας, Γιώργος Κ.(2015), Ομοιοπαθητική: Η νέα διάσταση στην ιατρική, Πατάκης, ISBN-13: 978-960-16-5791-2. • Ullman, Dana. (2014) Ομοιοπαθητική από το Α ως το Ω, Χάρτινη Πόλη, ISBN-13: 9786185106140. ***English Bibliography:*** • Ferguson's Careers in focus (2008) Cosmetology, 4th revised edition, Facts on file Inc, New York, ISBN: 978-0816072172. • Milady (2011), Milady Standard Cosmetology 2012, Milady, 1 edition, ISBN: 978-1439059302.
Assessment	• Class Participation 10% • Assignments / Projects 20% • Intermediate Written Examination 20% • Final Written Examination 50%
Language	Greek

ANNEX"4"

NEW RESEARCH ACTIVITIES AND SYNEGY WITH TEACHINH OF THE NEW MEMBERS OF THE TEACHING STAFF

1. Dr Oulas Anastasios

PUBLISHED RESEARCH MANUSCRIPTS

1. Nicolaou O, Sokratous K, Makowska Z, Morell M, De Groof A, Montigny P, Hadjisavvas A, Michailidou K, **Oulas A**, Spyrou GM, Demetriou C, Alarcón-Riquelme ME, Psarellis S, Kousios A, Lauwerys B, Kyriacou K. *"Proteomic analysis in lupus mice identifies Coronin-1A as a potential biomarker for lupus nephritis."* Arthritis Res Ther. 2020 Jun 18;22(1):147. doi: 10.1186/s13075-020-02236-6.
2. Chairta P, Nicolaou P, Sokratous K, Galant C, Houssiau F, **Oulas A**, Spyrou GM, Alarcon-Riquelme ME, Lauwerys BR, Christodoulou K. *"Comparative analysis of affected and unaffected areas of systemic sclerosis skin biopsies by high-throughput proteomic approaches".* Arthritis Res Ther. 2020;22(1):107. Published 2020 May 7. doi:10.1186/s13075-020-02196-x.
3. Karatzas E, Zachariou M, Bourdakou MM, Minadakis G, **Oulas A**, Kolios G, Delis A, Spyrou GM. *"PathWalks: Identifying pathway communities using a disease-related map of integrated information"* [published online ahead of print, 2020 May 5]. Bioinformatics. 2020;btaa291. doi:10.1093/bioinformatics/btaa291.
4. Tomazou M, **Oulas A**, Anagnostopoulos AK, Tsangaris GT, Spyrou GM. *"In Silico Identification of Antimicrobial Peptides in the Proteomes of Goat and Sheep Milk and Feta Cheese"*. Proteomes. 2019 Sep 21;7(4). pii: E32. doi: 10.3390/proteomes7040032.
5. Anastopoulos I, Omirou M, Stephanou C, **Oulas A**, Vasiliades MA, Efstathiou AM, Ioannides IM. *"Valorization of agricultural wastes could improve soil fertility and mitigate soil direct N2O emissions".* J Environ Manage. 2019 Nov 15;250:109389. doi: 10.1016/j.jenvman.2019.109389. Epub 2019 Sep 6.
6. Neocleous V, Fanis P, Cinarli F, Kokotsis V, **Oulas A**, Toumba M, Spyrou GM, Phylactou LA, Skordis N. "*46,XY complete gonadal dysgenesis in a familial case with a rare mutation in the desert hedgehog (DHH) gene*". Hormones (Athens). 2019 Jun 25. doi: 10.1007/s42000-019-00116-6. [Epub ahead of print]
7. **Oulas A**, Minadakis G, Zachariou M, Spyrou GM. "*Selecting variants of unknown significance through network-based gene-association significantly improves risk prediction for disease-control cohort.* Sci Rep. 2019 Mar 1;9(1):3266. doi: 10.1038/s41598-019-39796-w.
8. Katsarou K, Mitta E, Bardani E, **Oulas A**, Dadami E, Kalantidis K. **"***DCL-suppressed Nicotiana benthamiana plants: Valuable tools in research and biotechnology*". Mol Plant Pathol. 2018 Oct 21. doi: 10.1111/mpp.12761. [Epub ahead of print] PMID:30343523.
9. Kakouri A, Christodoulou C, Zachariou M, **Oulas A**, Minadakis G, Demetriou C, Votsi C, Papanicolaou-Zamba E, Kyproula C, Spyrou G. "*Revealing Clusters of Connected Pathways through Multisource Data Integration in Huntington's disease and Spastic Ataxia*". IEEE J Biomed Health Inform. 2018 Aug 30. doi: 10.1109/JBHI.2018.2865569. [Epub ahead of print]. PMID:30176611
10. Minadakis G, Zachariou M, **Oulas A**, Spyrou GM. "*PathwayConnector: finding complementary pathways to enhance functional analysis*". Bioinformatics. 2018 Aug 14. doi: 10.1093/bioinformatics/bty693. [Epub ahead of print] PMID:30124768
11. Jantsch MF, Quattrone A, O'Connell M, Helm M, Frye M, Macias-Gonzales M, Ohman M, Ameres S, Willems L, Fuks F, **Oulas A**, et al. "*Positioning Europe for the EPITRANSCRIPTOMICS challenge RNA Biol*". 2018;15(6):829-831. doi: 10.1080/15476286.2018.1460996. Epub 2018 May 9.PMID:29671387
12. Zachariou M, Minadakis G, Oulas A, Afxenti S, Spyrou GM. "*Integrating multi-source information on a single network to detect disease-related clusters of molecular mechanisms*". J Proteomics. 2018 Sep 30;188:15-29. doi: 10.1016/j.jprot.2018.03.009. Epub 2018 Mar 13. PMID:29545169
13. **Anastasis Oulas,** George Minadakis, Margarita Zachariou, Kleitos Sokratous, Marilena M Bourdakou, George M Spyrou – "*Systems Bioinformatics: increasing precision of*

computational diagnostics and therapeutics through network-based approaches" – Brief Bioinform. 2017 Nov 27. doi: 10.1093/bib/bbx15
14. Christina Pavloudi, Jon B Kristoffersen, **Anastasis Oulas**, Marleen De Troch, Christos Arvanitidis – "*Sediment microbial taxonomic and functional diversity in a natural salinity gradient challenge Remane's "species minimum" concept*" – PeerJ. 2017 Oct 13;5:e3687. doi: 10.7717/peerj.3687.
15. Lucas Sinclair, Umer Zeeshan Ijaz, Lars Juhl Jensen, Marco Coolen, Cecile Gubry-Rangin, Simon Berger, Alica Chroňáková, **Anastasis Oulas**, Christina Pavloudi, Julia Schnetzer, Aaron Weimann, Ali Zeeshan Ijaz, Alexander Eiler, Christopher Quince, Evangelos Pafilis. "*Seqenv: linking sequences to environments through text mining*" *PeerJ. 2016 Dec 20;4:e2690. doi: 10.7717/peerj.2690*.
16. Sarah Faulwetter, Evangelos Pafilis, Lucia Fanini, Nicolas Bailly, Donat Agosti, Christos Arvanitidis, Laura Boicenco, Terry Capatano, Simon Claus, Stefanie Dekeyzer, Teodor Georgiev, Aglaia Legaki, Dimitra Mavraki, **Anastasis Oulas**, Gabriella Papastefanou, Lyubomir Penev, Guido Sautter, Dmitry Schigel, Viktor Senderov, Adrian Teaca, Marilena Tsompanou. "*EMODnet Workshop on mechanisms and guidelines to mobilise historical data into biogeographic databases*". Rio Journal - Research Ideas and Outcomes 2: e9774 (06 Jul 2016) doi: 10.3897/rio.2.e9774
17. Constantinos Varsos, Theodore Patkos, **Anastasis Oulas**, Christina Pavloudi, Alexandros Gougousis, Umer Ijaz, Irene Filiopoulou, Nikolaos Pattakos, Edward Vanden Berghe, Antonio Fernández-Guerra, Sarah Faulwetter, Eva Chatzinikolaou, Evangelos Pafilis, Chryssoula Bekiari, Martin Doerr, Christos Arvanitidis. "*Optimized R functions for analysis of ecological community data using the R virtual laboratory (RvLab)*". *Biodiversity Data J. 2016*
18. Bobrova O, Kristoffersen JB, **Oulas A**, Ivanytsia V. "*Metagenomic 16s rrna investigation of microbial communities in the Black Sea estuaries in South-West of Ukraine*". Acta Biochim Pol. 2016, Feb 29, DOI: 10.18388/abp.2015_1145.
19. Christina Pavloudi, **Anastasis Oulas**, Katerina Vasileiadou, Elena Sarropoulou, Georgios Kotoulas, Ioannis Karakassis, Christos Arvanitidis. "*Salinity is the major factor influencing the sediment bacterial communities in a Mediterranean lagoonal complex (Amvrakikos Gulf, Ionian Sea)*" (*Marine Genomics, Jan 2016, DOI: 10.1016/j.margen.2016.01.005*).
20. **Anastasis Oulas**, Paraskevi N. Polymenakou, Manolis Mandalakis, Paraskevi Nomikou, Steven Carey, Stephanos Kilias, Christos Christakis, Georgios Kotoulas, Antonios Magoulas, H.James Tripp, A. David Paez Espino, Natalia N. Ivanova, Nikos C. Kyrpides. "*Metagenomic investigation of the geologically unique Hellenic Volcanic Arc reveals a distinctive ecosystem with unexpected physiology*". Environ Microbiol. 2016 April. doi: 10.1111/1462-2920.13095.
21. **Anastasis Oulas**, Christina Pavloudi, Paraskevi Polymenakou, Georgios A. Pavlopoulos, Nikolas Papanikolaou, Georgios Kotoulas, Christos Arvanitidis and Ioannis Iliopoulos, "*Metagenomics: tools and insights for analyzing next generation sequencing data derived from biodiversity studies*", Bioinformatics and Biology Insights. 2015 May 5;9:75-88, Libertas Academia.
22. Paraskevi N. Polymenakou, Christos A. Christakis, Manolis Mandalakis, **Anastasis Oulas**, "*Pyrosequencing analysis of microbial communities illuminates the dominance of cosmopolitan species in deep sea sediments of the Eastern Mediterranean Sea*", Res Microbiol. 2015 Apr 20. pii: S0923-2508(15)00057-1.
23. G. A. Pavlopoulos, **A. Oulas**, E. Iacucci, A. Sifrim, Y. Moreau, R. Schneider, J. Aerts and I. Iliopoulos. "*Unraveling genomic variation from next generation sequencing data*", BioData Mining, **6**:13, 2013
24. M. Velegraki, E. Papakonstanti, I. Mavroudi, M. Psyllaki, C. Tsatsanis, **A. Oulas**, I. Iliopoulos, P. Katonis and H. A. Papadaki "*Impaired clearance of apoptotic cells leads to HMGB1 release in the bone-marrow of MDS patients and induces TLR4-mediated cytokine production*", Haematologica, 2013
25. **A. Oulas**, N. Karathanasis, A. Louloupi, I. Iliopoulos, K. Kalantidis and P. Poirazi. "*A new microRNA target prediction tool identifies a novel interaction of a putative miRNA with CCND2*" *RNA Biol*. 2012 Sep 1;9(9).
26. **A. Oulas**, N. Karathanasis, A. Louloupi, and P. Poirazi, "*Finding Cancer-Associated miRNAs: Methods and Tools*" *Mol Biotechnol*, 2011.

27. **A. Oulas**, A. Boutla, K. Gkirtzou, M. Reczko, K. Kalantidis, and P. Poirazi, "*Prediction of novel microRNA genes in cancer-associated genomic regions--a combined computational and experimental approach*" *Nucleic Acids Res*, vol. 37, pp. 3276-87, 2009.
28. **A. Oulas**, M. Reczko, and P. Poirazi, "MicroRNAs and Cancer – The Search Begins!," *IEEE Trans Inf Technol Biomed*, vol. 13, pp. 67-77, 2008.
29. L. P. Petalidis, **A. Oulas**, M. Backlund, M. T. Wayland, L. Liu, K. Plant, L. Happerfield, T. C. Freeman, P. Poirazi, and V. P. Collins, "*Improved grading and survival prediction of human astrocytic brain tumors by artificial neural network analysis of gene expression microarray data*" *Mol Cancer Ther*, vol. 7, pp. 1013-24, 2008.
30. M. Reczko, P. Poirazi, **A. Oulas**, E. Tzamali, M. Manioudaki, V. Tsiaras and I. Tollis. *ERCIM News*, Special theme: "*The Digital Patient*" **April 2007**.

BOOK CHAPTERS

1. Kyriaki Savva, Margarita Zachariou, **Anastasis Oulas**, George Minadakis, Kleitos Sokratous, Nikolas Dietis, George M. Spyrou. "*Computational drug repurposing for neurodegenerative diseases*". In Silico Drug Design, 1st Edition, Repurposing Techniques and Methodologies. ELSEVIER publishing group
2. **Anastasis Oulas**, Nestoras Karathanasis, Annita Louloupi, Georgios A. Pavlopoulos, Panayiota Poirazi, Kriton Kalantidis and Ioannis Iliopoulos, "*Prediction of miRNA targets*", *Methods in Molecular Biology*, 2015.
3. **A Oulas**, N Karathanasis, P Poirazi - MicroRNA and Cancer, "*Computational Identification of miRNAs Involved in Cancer*", *Methods in Molecular Biology*, 2010.
4. **A Oulas**, P Poirazi, "*Utilization of SSCprofiler to predict a new miRNA gene*", *Methods in Molecular Biology 676*, *243-252*, 2010.

EDITORORIAL DUTIES

1. Editorial member, "High-Performance Computing Infrastructure for South East Europe's Research Communities Modeling and Optimization in Science and Technologies". Expected: Volume 2, 2014, pp 67-74

FUNDED SHORT VISITS

1. Short visit part of the MicroB3 program (EU-FP7 RESEARCH PROJECT). 8th Feb.-16th Feb. 2014. Host: Prof. Christos Ouzonis, (Researcher A) at CERTH, Thessaloniki, Greece.
2. Short visit part of the Marbigen program (EU-FP7 RESEARCH PROJECT). 1st Aug.-1st Sep. 2013. Host: Dr. Nikos Kyrpides at the Department of Energy, Joint Genome Institute, Walnut Creek, CA, USA.
3. Short research mission as part of the COST Action ES1103**:** Microbial ecology & the earth system: collaborating for insight and success with the new generation of sequencing tools. Host: Prof. Alice McHardy, Heinrich-Heine University, Dusseldorf, Germany – 11/06/12-29/06/12.
4. EU program Human Research Potential & the Socio-Economic knowledge base: Access to Research Infrastructures (ARI). Short visit - Linnaeus Center for Bioinformatics, Uppsala, Sweden, Project – "MiRNA gene prediction from human genomic sequences". 1st-30th, June, 2005.

ATTENDED PROJECT MEETINGS

1. Integrated Precision Medicine Technologies Research Center of Excellence (IPMT) 3rd Meeting - 22nd-23rd March 2018 – Barcelona
2. Micro B3 "Work package 6 meeting" Task 6.2 Bacteria and archaea, Marseilles, France, 26th-29th Jan. 2015.
3. SeaBioTech (EU-FP7 RESEARCH PROJECT KBBE-311932), 2rd Annual Meeting 17-21 April, 2014, Reykjavik, Iceland
4. Micro B3 "General Plenary Meeting", Bremen, Germany, 22nd-27th April. 2014
5. COST Action ES1103 - Microbial ecology & the earth system: collaborating for insight and success with the new generation of sequencing tools, WG 4-5 meeting / workshop:

Bioinformatics meets microbial ecology (BMME), 15th -18th December 2013, Prague, Czech Republic.
6. SeaBioTech (EU-FP7 RESEARCH PROJECT KBBE-311932), 2nd Annual Meeting 17-18 October, 2013, HCMR-Crete.
7. 3rd COPWELL (EU-FP7 RESEARCH PROJECT KBBE-2010-4 265957 2011-2015) Meeting, 1-2 October 2013, Espace ENCAN, Quai Louis Prunier, La Rochelle, France.
8. Micro B3 "Work package 6 meeting" Task 6.2 Bacteria and archaea, Istanbul, 6th-7th Dec. 2012
9. 2nd COPWELL (EU-FP7 RESEARCH PROJECT KBBE-2010-4 265957, 2011-2015). Meeting, 3-5 October 2012, Hotel Imperial Belvedere, Hersonissos, Crete, Greece.
10. COST Action ES1103 - Microbial ecology & the earth system: collaborating for insight and success with the new generation of sequencing tools, Kick off meeting, at Newcastle upon Tyne 28th and 29th February 2012
11. Micro B3 (Biodiversity, Bioinformatics, Biotechnology) Kick-off Meeting February 1st – February 3rd, 2012, Jacobs University Bremen

CONTRIBUTIONS TO CONFERENCES

1. Hellenic Bioinformatics Conference, Heraklion, Greece, 11-13 October 2019. Oral presentation: Anastasis Oulas, "Bacterial Wars – a network-based method for the prediction of bacterial compatibility based on antimicrobial peptide sequence similarities".
2. The 4th OpenMultiMed Cost Training School in Systems Bioinformatics towards Network Medicine. May 29 – May 31, 2018. Oral presentation: Anastasis Oulas "Visualization of Network based approaches".
3. Hellenic Bioinformatics Conference, Thessaloniki, Greece, 15-18 November, 2018. Poster presentation: Stephanie Constantinidou, Anastasis Oulas, Margarita Zachariou, George Minadakis, Georgios M. Hadjigeorgiou, Theodoros Kyriakides, Efthimios Dardiotis, Marios Pantzaris, George M. Spyrou, "Network-based approaches to integrate multisource information for multiple sclerosis towards biomarker discovery".
4. Cyprus Society of Human Genetics (CSHG) conference, Nicosia Cyprus, 24-25 November, 2017, Oral presentation: Anastasis Oulas, George Minadakis, George M. Spyrou, "Classifying Variants of Unknown Significance by Combining Polygenic Risk Score and Network Analysis".
5. Hellenic Bioinformatics Conference, Heraklion, Crete, Greece, 5-9 September, 2017. Oral presentation: Anastasis Oulas, George Minadakis, George M. Spyrou, "Network based approaches for classifying variants of unknown significance".
6. The Micro B3 Final Conference, Royal Flemish Academy of Belgium for Science and the Arts, Brussels, 2nd to 5th November 2015. Oral presentation: "Micro B3 summer school Crete: From sampling to analyzing microbial diversity & function"
7. Mares Conference 2016, Oral presentation:, Christina Pavloudi, Anastasis Oulas, Jon B Kristoffersen, Michael W Friedrich, Christos Arvanitidis, "*Investigation of the suitability of Remane's "species minimum" concept in a Mediterranean transitional waters ecosystem*". PeerJ journal
8. DEVOTES EUROMARINE SUMMER SCHOOL 2015, San Sebastian, Spain; 06/20156th, Oral presentation: Panagiotis D. Dimitriou, Theodore Patkos, Anastasis Oulas, Nikos Pattakos, Kostas Varsos, Edward Vanden, Antonio Fernandez-Guerra, Christina Pavloudi, Ioannis Karakassis, Christos Arvanitidis, "*New tools for marine ecological analysis: Using the R-vLab for Ecological Status assessment*"
9. Mikrobiokosmos conference, National Hellenic Research Foundation, 3-5 April, 2015. Oral presentation: "Metagenomic investigation of the geologically unique Hellenic Volcanic Arc reveals a distinctive ecosystem with unexpected physiology"
10. HSCBB-14: 9th conference of the Hellenic Society for Computational Biology, and Bioinformatics, Agricultural University of Athens, Greece, October 10 - 12, 2014.
11. HSCBB-13: 8th conference of the Hellenic Society for Computational Biology, and Bioinformatics, University of Thessaly, Lamia, Greece, November 22 - 24, 2013, Oral presentation: "Metagenomics of microbial communities inhabiting the Kolumbo volcano shallow-sea hydrothermal vent field and Santorini (caldera)".

12. HP-SEE User Forum, Belgrade, Serbia on October 17th-19th, 2012. Oral presentation titled: "A new microRNA target prediction tool identifies a novel interaction of a putative miRNA with CCND2".
13. HSCBB-12: 7th conference of the Hellenic Society for Computational Biology, and Bioinformatics, FORTH, Heraklion, Crete, 4-6/10/2012 Poster presentation: "A new microRNA target prediction tool identifies a novel interaction of a putative miRNA with CCND2".
14. 7th MICROSYMPOSIUM on SMALL RNAs, May 21 - 23, 2012, Novartis Campus, Basel, Switzerland Poster presentation: "A new microRNA target prediction tool identifies a novel interaction of a putative miRNA with CCND2".
15. ISMB/ECCB 2011: Vienna, Austria. Poster Title: "Prediction of miRNA gene targets – a combined computational and experimental approach". Anastasis Oulas, Nestoras Karathanasis, Panayiota Poirazi, Kriton Kalantidis.
16. 62nd Conference of the Hellenic Society of Biochemistry and Molecular Biology, 9-11, December, 2011. Oral presentation: "Prediction of miRNA gene targets in cancer associated genomic regions".
17. HSCBB-10: 5th conference of the Hellenic society for computational biology, Thraki Palace Conference Centre, Alexandroupolis, 17-19/12/2010 Poster spotlight talk titled: Improved prediction of miRNA gene targets.
18. HSCBB-09: 4th conference of the Hellenic society for computational biology, NHRF, Athens, 18-20/12/2009 Poster spotlight talk titled: Development of a microRNA target prediction tool.
19. HSCBB-08: 3rd Conference of the Hellenic Society for Computational Biology and Bioinformatics, CERTH, Thessaloniki, 30-31 Oct 2008. Poster spotlight talk titled: SSCprofiler: a combined Sequence, Structure and Conservation profile HMM tool accurately predicts microRNA gene.
20. 1st Cretan Bioinformatics Forum, FORTH. Building Scientific Networks (Invited Talk): Analysis of Microarray Data and Prediction of MiRNA genes using Computational tools , June 19, 2006
21. 2nd International Advanced Research Workshop on In Silico Oncology, Kolympari, Chania, Greece, 25th and 26th September 2006. "Prediction of novel miRNAs and their gene targets with implications in tumourigenesis".
22. ISMB/ECCB 2004: Glasgow, Scotland, UK. Poster Title: Biologically Inspired Neural Network and Genetic algorithms for microarray data classification and Identification of informative genes. Anastasis Oulas , Martin Reczko, Panayiota Poirazi

ATTENDED WORKSHOPS

1. Hellenic Bioinformatics - Proteomics Workshop – Hands-on, Heraklion, Crete, Greece, 5th September, 2017.
2. Hellenic Bioinformatics - Advanced RNA-Seq and ChIP-Seq data analysis – Hands-on, Heraklion, Crete, Greece, 5th September, 2017.
3. Hellenic Bioinformatics – Tutorials on Metagenomics and Phylogenomics Heraklion, Crete, Greece, 6th September, 2017.
4. Volos Summer School of Human Genetics, University of Thessaly - 29th - 31st May, 2017
5. Silvangs power user workshop at The Max Planck Institute for Marine Microbiology, Bremen, Germany – 28-30, September 2016
6. LifeWatch Data Analysis Workshop, Biodiversity data preparation and analysis using LifeWatch virtual labs and web services, Thursday 26th – Friday 27th November 2015; VLIZ, InnovOcean site, Wandelaarkaai 7, Oostende, Teaching: Data exploration, processing and analysis (LifeWatch Greece RvLab)
7. GSC 17, May 4-6, 2015 DOE JGI, Walnut Creek, California, USA and Satellite Workshop on Genomes to Secondary Metabolites (G2SM) workshop Date: May 7-8, 2015.
8. Micro B3 OSD Analysis Workshop 8 - 14 March 2015, ELIXIS building, EBI-EMBL, Hinxton, Cambridge, UK.
9. LifewatchGreece Data Management Workshop, 30 June - 3 July 2014, R Hackathon, HCMR Crete.
10. Micro B3 Marine Metagenomics Bioinformatics 24 - 28 March 2014, ELIXIS building, EBI-EMBL, Hinxton, Cambridge, UK.

11. COST action SeqAhead Workshop - Barcelona 2013, COST SeqAhead & AllBio, Wednesday, February 13, 2013 at 2:00 PM - Friday, February 15, 2013 at 5:30 PM (PST), Hospitalet de Llobregat, Spain
12. EMBRC - International Workshop on Marine E-Infrastructure - European Molecular Biology Laboratory (EMBL), Heidelberg - Wednesday, 28/03/12 - Friday, 30/03/12.
13. Microbial Diversity, Genomics and Metagenomics Workshop (HCMR Crete, 13th-16th, December 2011)
14. Introduction to Systems Biology Course (HCMR Crete, 17th-18th, November 2011)
15. Cancer Bioinformatics Workshop, Cambridge Research Institute 2nd - 4th September 2010. Poster spotlight talk titled: Development of a microRNA target prediction tool using hidden Markov models
16. Computational Biology Workshop, Mediterranean Institute for Life Sciences (MedILS), Split, Croatia, July 25 – July 29, 2007.
17. 2nd International Advanced Research Workshop on In Silico Oncology, Kolympari, Chania, Greece, 25th and 26th September 2006, Talk titled: Prediction of novel miRNAs and their gene targets with implications in tumourigenesis, Anastasis Oulas , Martin Reczko, Panayiota Poirazi.
18. The Fifth BioSapiens European School in Bioinformatics held in Budapest (Hungary). Talk: Computational Prediction of MiRNA in Cancer, Sep 4-8 2006
19. Workshop in Bioinformatics, Jointly organized by The Department of Biology, University of Crete (UOC) The Institute of Molecular Biology and Biotechnology (IMBB) of the Foundation for Research and Technology (FORTH), Tutorial Presentation on Microarray Analysis Tools, Greece, Sep 2004.

TAUGHT COURSES AND WORKSHOPS

1. The 4th OpenMultiMed Cost Training School in Systems Bioinformatics towards Network Medicine. May 29 – May 31, 2018. Tutor: Anastasis Oulas. Title: “Visualization of Network based approaches”.
2. Cost Workshop in Metagenomics of Bacterial 16sRNA Genes Analysis using QIIME Nicosia, Cyprus 2018. Tutor Anastasis Oulas, Title: “Microbiome Analysis Using R”.
3. Postgraduate Seminars Seminar Series 2018-2019 University of Cyprus, 17 October 2018. Tutor: Anastasis Oulas. Title: Tools for analysing high-throughput genetic variation data as a means for molecular diagnosis.
4. CING Bioinformatics workshop 1, Workshop on “Next Generation Sequencing and Human Variation Data Analysis”, Tutor: Anastasis Oulas. April 3rd, 2017 Thursday, 9:00-13:00 at CING’s Amphitheatre.
5. CING Bioinformatics workshop 2, Workshop on “Mass Spectrometry-based omics: Data production, analysis and perspectives”, Tutor: Anastasis Oulas. July 6, 2017 Thursday, 9:00-13:00 at CING’s Amphitheatre.
6. Hands-on Tutorial on Whole Exome Sequencing and Panel Data Analysis. CING, Tutor: Anastasis Oulas. Dates: 9/2/2018
7. Cyprus School of Molecular Medicine Postgraduate course in Bioinformatics – Title: Computational Intelligence: Clustering, 2 October, 2017.
8. Cyprus School of Molecular Medicine Postgraduate course in Bioinformatics – Title: Omics Genomics, 16 November, 2017
9. Cyprus School of Molecular Medicine Postgraduate course in Bioinformatics – Title: Omics Genomics Tutorial, 24 November, 2017
10. Genomics Standards Consortium (GSC) 18, June 12-15, 2016, HCMR, Heraklion, Crete. Tutor: Anastasis Oulas. Talk 1: Ecosystems physiology of the Kolumbo submerged volcano in the Hellenic volcanic arc. Talk 2: LifeWatch Greece Greek Biodiversity portal: Analysis and Visualization tools
11. Introductory Course to the Principles of Coalescent Theory and Applications, 20th - 24th of February 2012, HCMR-Crete.
12. Teaching: "Introduction to Programming Using Python" - https://sites.google.com/site/pythoncompbio/ HCMR June 2011, Heraklion, Crete, Greece. (in collaboration with Dr. Evangelos Pafilis and Jacques Lagnel)

13. Workshop - Literature Mining for Biologists, March 19th, 2011, University of Cyprus. Talk title: “Biomedical textmining - applications in miRNA target prediction”.
14. LifeWatch Data Analysis Workshop, Biodiversity data preparation and analysis using LifeWatch virtual labs and web services, Thursday 26th – Friday 27th November 2015; VLIZ, InnovOcean site, Wandelaarkaai 7, Oostende, Teaching: *Data exploration, processing and analysis (LifeWatch Greece RvLab)*.
15. Micro B3 summer school Crete: From sampling to analyzing microbial diversity & function, May 26 - June 7, 2014. Tutor: Anastais Oulas, Title: “*Environmental and marine bioinformatics for biologists*”
16. Workshop - Next-Generation Sequencing technologies and Informatics tools for studying Marine Biodiversity and Adaptation (HCMR-Crete). 1st-3rd, October, 2012, Contribution: organizing committee and tutor.

MOST IMPORTANT SOURCES OF FUNDING, HONOURS AND AWARDS

1. BIORISE project (HO2020) establishment of Bioinformatics ERA Chair at the Cyprus Institute of Neurology and Genetics (http://biorisecyprus.com/en/cing-home).
2. LifeWatchGreece Research Infrastructure , funded by the GSRT (Greek government: structural funds), national effort to address infrastructure development in environmental science.
3. MARBIGEN “Supporting research potential for MARine BIodiversity and GENomics in the Eastern Mediterranean” project (FP7-REGPOT-2010-1). P.Is. Dr. Antonios Magoulas, Dr Georgios Kotoulas.
4. PENED “Development of computational methods for genomic data analysis”, Funding:General Secretary of Research and Technology, Hellas. 2005-2008, €228.000. P.I. Dr. Panayiota Poirazi
5. A.G. Leventis Foundation Grant for postgraduate studies, based on academic excellence (2004-2006).
6. PROGNOCHIP: “Development and Establishment of DNA Microarray Technology in Greece: Identification and Validation of Classification and Prognosis Molecular Markers for Breast Cancer”, Funding: General Secretary of Research and Technology, Hellas. 12/2003-12/2006, €350.000. P.I. George Thireos, Panayiota Poirazi Partner.

SYNERGY WITH TEACHING

Dr. Oulas is a Fellow Researcher and an established scientist in the field of Bioinformatics with an extensive scholar record (57 publications in highly prestigious journals and an h-index=14). His research interests which relate to the most state-of-art technologies in Bioinformatics, are strongly related and included in most of the topics of the course of Bioinformatics, that he was assigned to teach.

2. Dr Siafaka Panoraia

Participation in Research Activities:

- 2019-2020 **Visiting post-doc researcher** in Pharmaceutical Technology Department, University of Health Sciences, Istanbul, Turkey Supervisor: Assoc. Prof. Dr. N. Üstündağ Okur (Research Topic: ocular, transdermal, local and oral drug delivery carriers)
- 2016 - 2019 **Visiting post-doc researcher** in Pharmaceutical Technology Department, Istanbul Medipol University, Istanbul, Turkey Supervisor: Assoc. Prof. Dr. N. Üstündağ Okur (Research Topic: ocular, transdermal, local and oral drug delivery carriers)
- 2014-2015 **Research Excellence Scholarship** for PhD Candidates from the Research Committee of Aristotle University of Thessaloniki
- 2013- 2015 **Researcher** Participation in the research program financed by NSRF 2007-2013 (Project Code: MOL-TREAT):"Integrated treatment of high concentration waste molasses for recovery of high added value and reducing pollution loads"
- 2014- 2015 **Researcher** Participation in the research program financed by NSRF 2007-2013 (Project Code: 88532):"Development of new biocomposites low molecular weight using lignocellulosic biomass and nanotechnology"
- 2012- 2013 **Researcher** Participation in the research program financed by NSRF 2007-2013 (Project Code: 84941): "Development of Innovative nanocarriers of ixabepilone and study of their applicability in the Treatment of Breast Cancer"
- 2012 **Researcher** Participation in the research program financed by NSRF 2007-2013: "Nanocomposite polymeric materials of high performance and versatile"

Publications:

1. **P. I. Siafaka**, E. Özcan Bülbül, G. Mutlu, M. E. Okur, I. D. Karantas, N. Üstündağ Okur, *Transdermal drug delivery systems and their potential in Alzheimer's disease management*. **CNS & Neurological Disorders - Drug Targets** (2020). (IF= 2.761)
2. N. Üstündağ Okur, **P. I. Siafaka,** E. Homan Gokce, *Lipid Nanoparticles as potent carriers of orally administrated drugs* **Current Pharmaceutical Biotechnology** *(*2020). (IF= 2.02)
3. N. Üstündağ Okur, A. Pinar Yağcılar, **P.I. Siafaka**. *Promising polymeric drug carriers for local delivery; the case of in situ gels*. **Current Drug delivery** (2020). (IF=1.645)
4. I. D. Karantas, M. E. Okur, N. Üstündağ Okur, **P. I. Siafaka.** *Dyslipidemia management in 2020: An update on diagnosis and therapeutic perspectives*. **Endocrine, Metabolic & Immune Disorders - Drug Targets** (2020). (IF=1.973)
5. E.Ö. Bülbül, I.D. Karantas, M.E. Okur, **P.I. Siafaka**, N. Üstundağ Okur. *Schizophrenia; a review on promising drug delivery systems.* **Current Pharmaceutical Design** (2020). (IF=2.611)
6. E.Ö. Bülbül, K. Eleftheriadou, N. Üstundağ Okur, **P.I. Siafaka**. *An update on cyclodextrins as drug vehicles for antimicrobial applications.* **Journal of Pharmaceutical Technology** 1(1) (2020) 18-25. (IF=-) (invited review)
7. **P.I. Siafaka,** A. Pinar Yağcılar, N. Üstündağ Okur*. New era of ocular drug delivery systems based on contact lenses.* **FABAD journal** (2020). (IF=-)
8. A.E. Karadağ, E. İpekçi, A.P. Yağcılar, İ.Demirbolat, M. Kartal, **P.I. Siafaka**, N. Üstündağ Okur. *Antibacterial evaluation of Elettaria cardamomum (L.) Maton, Lavandula angustifolia Mill. and Salvia fruticosa Mill. essential oil combinations in mouthwash preparations*. **Natural Volatiles and Essential Oils** 7(1) (2020), 9-17. (IF=)

9. N. Üstündağ Okur, E. Şefik Cağlar, **P.I. Siafaka**. *Novel Ocular Drug Delivery Systems: An Update on Microemulsions*. **Journal of Ocular Pharmacology and Therapeutics** (2020). (IF=1.925)
10. **P.I. Siafaka**, N. Üstündağ Okur, I.D. Karantas, M.E. Okur, E. Altihan Gündogdu. *Current update on nanoplatforms as therapeutic and diagnostic tools; a review for the materials used as nanotheranostics and the imaging modalities.* **Asian journal of Pharmaceutical Sciences** (2020). (IF=4.016)
11. M.E. Okur, I.D. Karantas, Z. Şenyiğit, N. Üstündağ Okur and **P.I. Siafaka***. *Recent trends on wound management; the newest therapeutic choices based on polymers*. **Asian journal of Pharmaceutical Sciences** (2020). (IF=4.016)
12. **P.I. Siafaka**, E. Şefik Cağlar, K. Papadopoulou, V. Tsanaktsis, I. D. Karantas, N. Üstündağ Okur, H. Y. Karasulu. *Polymeric microparticles as alternative carriers for antidiabetic Glibenclamide drug.* **Pharmeutical and Biomedical Research** 5(4) (2019) 17-20. (invited paper)
13. N. Üstündağ Okur, N.Hökenek, M.E. Okur, Ş. Ayla, A. Yoltaş, **P I. Siafaka,** E. Cevher. *An alternative approach to wound healing field; new composite films from natural polymers for Mupirocin dermal delivery.* **Saudi Pharmaceutical Journal** 27 (5) (2019) 738-752. (IF=3.760)
14. **P. I. Siafaka**, M. E. Okur, Ş. Ayla, S. Er, E. Şefik Cağlar, N. Üstündağ Okur. *Design and characterization of nanocarriers loaded with Levofloxacin for enhanced antimicrobial activity; Physicochemical properties, in vitro release and oral acute toxicity.* **Brazilian Journal of Pharmaceutical Sciences** 55 (2019) 1-13. (IF=0.555)
15. N. Üstündağ Okur, Vildan Yogzatli, M. E. Okur, A. Yoltas, **P.I. Siafaka**. *Improving therapeutic efficacy of voriconazole against fungal keratitis: Thermo-sensitive in situ gels as ophthalmic drug carriers.* **Journal of Drug Delivery Science and Technology** 49 (2018) 323-333. (IF= 2.606)
16. N. Üstündağ Okur, M. Filippousi, M.E. Okur, Ş. Ayla, E. Şefik Çağlar, A.Yoltaş, **P.I. Siafaka**. *A novel approach for skin fungal infections: Controlled release topical mats of poly(lactic acid)/poly(ethylene succinate) blends containing Voriconazole*. **Journal of Drug Delivery Science and Technology** 46 (2018) 74-86. (IF= 2.606)
17. M. E. Okur, I. D. Karantas, N. Üstündağ Okur, **P.I. Siafaka**. *Hypertension in 2017: Update in treatment and pharmaceutical innovations.* **Current Pharmaceutical Design** 23(44) (2017) 6795-6814 (IF=2.611)
18. M. E. Okur, I.D. Karantas, **P.I. Siafaka**. *Diabetes Mellitus: A Review on Pharmacological Aspect: Currents Status and Future Perspectives*. **Acta Pharmaceutica Sciencia** 55(1) (2017) 54-74. (IF=-)
19. D.S. Achilias, **P.I. Siafaka**. *Polymerization Kinetics of Poly(2-Hydroxyethyl Methacrylate) Hydrogels and Nanocomposite Materials.* **Processes** 5(2) (2017) 21. (IF=2.753)
20. **P.I. Siafaka**, N. Üstündağ Okur, E. Karavas, D. N. Bikiaris. *Surface modified multifunctional and stimuli responsive nanoparticles for drug targeting: Current status and uses.* **International Journal of Molecular Sciences** 17(9) (2016) 1140-1480. (IF= 4.183)
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23. M. Filippousi, S.Turner, K. Leus, **P.I. Siafaka**, E. D. Tseligka, M. Vandichel, S. G. Nanaki, I.S. Vizirianakis, D.N. Bikiaris, P. Van Der Voort, G. Van Tendeloo. *Biocompatible Zr-based nanoscale MOFs coated with modified poly(ε-caprolactone) as anticancer drug carriers.* **International Journal of Pharmaceutics** 509 (2016) 208-18. (IF=4.845)
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25. **P.I. Siafaka**, P. Barbalexis, D.N. Bikiaris. *Novel electrospun nanofibrous matrices prepared from poly(lactic acid)/poly(butylene adipate) blends for controlled release formulations of an anti-rheumatoid agent.* **European Journal of Pharmaceutical Sciences** 88 (2016) 12-25. (IF=3.773)-phD associated paper
26. **P. Siafaka**, N. Üstündağ Okur, M. Mone, S. Giannakopoulou, S. Er, E. Pavlidou, E. Karavas, D.N. Bikiaris. *Two different approaches for oral administration of Voriconazole loaded formulations: electrospun fibers versus β-cyclodextrin (β-CD) complexes.* **International Journal of Molecular Sciences**, 17 (2016) 282-297. (IF=4.183)
27. **P.I. Siafaka**, A. Zisi, M. Exindari, I. Karantas, D. Bikiaris. *Porous dressings of chitosan modified with poly(2-hydroxythylacrylate) for topical wound delivery of Levofloxacin.* **Carbohydrate polymers** 143 (2016) 90-99. (IF=7.182)- phD associated paper
28. **P. Siafaka**, M. Betsiou, A. Tsolou, E. Angelou, B. Agianian, M. Koffa, S. Chaitidou, E. Karavas, K. Avgoustakis, D. Bikiaris. *Synthesis of folate- pegylated polyester nanoparticles encapsulating ixabepilone for targeting folate receptor overexpressing breast cancer cells.* **Journal of Materials Science: Materials in Medicine** 26 (2015) 275. (IF=2.587)
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33. G. Z. Kyzas, **P.I. Siafaka**, E.G. Pavlidou, K.Z. Chrissafis, D.N. Bikiaris. *Synthesis and adsorption application of succinyl-grafted chitosan for the simultaneous removal of zinc and cationic dye from binary hazardous mixtures.* **Chemical Engineering Journal** 259 (2015) 438-448. (IF=10.652).
34. G.Z. Kyzas, **P.I. Siafaka**, D. Lambropoulou , N. K .Lazaridis, D. N. Bikiaris. *Poly(itaconic acid) grafted chitosan adsorbents of different cross–linking for Pb(II) and Cd(II) uptake.* **Langmuir** 30 (2014) 120-131. (IF=3.683)
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Chapters in Books:

1. D.S. Achilias, L. Andriotis, I.A. Koutsidis, D. Louka, N. Nianias, **P. Siafaka**, Y. Tsagalias, G. Tsintzou. *Recent advances in the chemical recycling of polymers (PP, PS, LDPE, HDPE, PVC, PC Nylon»* (2012) **Intecopen publishing** (http://www.intechopen.com/books/material-recycling-trends-and perspectives/recent-advances-in-the-chemical-recycling-of-polymers)

Presentations in International/National Conferences:

1. E.Ö. Bülbül, I.D. Karantas, M.E. Okur, **P.I. Siafaka**, N. Üstundağ Okur. Potential drug delivery systems on Schizophrenia. **3rd International Hippocrates Congress on Medical and Health Sciences**, 6 - 7 March 2020 Ankara, Turkey (oral presentation).
2. N. Üstündağ Okur, A. Pınar Yağcılar, **P. I. Siafaka**, In situ gel systems for ocular drug delivery, **International Symposium on Academic studies in Health and Sports Sciences**, Ankara, Türkiye, 15-17 November 2019 (oral presentation).
3. **P.I. Siafaka**, G. Mutlu, N. Üstündağ Okur, Brain Targeted Systems against various Dementia types, **3rd International Health Sciences Congress**, Çanakkale, Turkey, 24-26 October 2019 (oral presentation).
4. **P.I. Siafaka**, E.S.Caglar, N. Üstündag Okur, Polymeric microparticles as antidiabetic Glibenclamide carriers; preparation and characterization as preliminary studies, **ISOPS 2018**, Ankara, Turkey, 26-29 June 2018 (poster presentation).
5. N. Üstündag Okur, N.Hökenek, **P.I. Siafaka**, Erdal Cevher, Dermal films containing Mupirocin: Characterization, ex vivo permeation and bioadhesion studies, **ISOPS 2018**, Ankara, Turkey, 26-29 June 2018 (poster presentation).
6. **P.I. Siafaka**, M.E. Okur, S. Ayla, I. Karantas, N. Üstündag Okur, A promising solution for rheumatoid arthritis: characterization, in vitro and in vivo studies, **ISOPS 2018**, Ankara, Turkey, 26-29 June 2018 (poster presentation).
7. **P. I. Siafaka**, M.E. Okur, S. Ayla, E.S.Caglar, N. Üstündag Okur, Preparation, characterization and oral acute toxicity of levofloxacin loaded nanocarriers as oral drug delivery systems. **EUFEPS Annual meeting 2018**, Athens, Greece, 24-27 May 2018 (oral presentation).
8. N. Üstündag Okur, E.S. Caglar, M. E. Okur, S. Ayla, M. Filippousi, **P.I. Siafaka,** Preparation, Optimization and in vitro-in vivo evaluation of Voriconazole loaded topical mats of poly(lactic acid)/poly(ethylene succinate) blends for skin infections. **EUFEPS Annual meeting 2018**, Athens, Greece, 24-27 May 2018 (poster presentation).
9. **P.I. Siafaka,** N. Üstündağ Okur, Brinzolamide microemulsions as alternative carriers against glaucoma disease, **7th BBBB International Conference on Pharmaceutical Sciences, Balatonfured, Hungary,** 6-7 October 2017 (poster presentation).
10. N. Üstündağ Okur, V. Yozgatli, **P.I. Siafaka,** Effect of carboxymethylcellulose (CMC) on characterization and release properties of voriconazole loaded in situ gel, **6th FIP Pharmaceutical Sciences World Congress 2017**, Stockholm, Sweden, 21-24 May 2017(poster presentation).
11. N. Üstündağ Okur, M. Filippousi, E. Şefik Çağlar, **P.I. Siafaka**, Biocompatible blends of aliphatic polyesters against fungal infections: Preparation, physicochemical characterization and in vitro release studies, **6th FIP Pharmaceutical Sciences World Congress 2017**, Stockholm, Sweden, 21-24 May 2017 (poster presentation).

12. D. Eleutheriadou, E. Korosidou, A. Kanari, **P. Siafaka,** Teaching Physical Sciences in Kindergarten, **1st Educational Conference of Imathia**, Naoussa, Greece, 31/3-1/4 2017 (poster presentation).
13. K. Papadopoulou, **P. Siafaka,** N. Üstündağ Okur, D. Bikiaris, Polymeric Nanoparticles from natural polymers as Diphenhydramine carriers against asthma disease, **22nd Panhellenic Conference in Chemistry**, Thessaloniki, 2-4 December 2016 (oral presentation).
14. **P.I. Siafaka,** D.G. Papageorgiou**,** D.N. Bikiaris, Thermal and physical properties of PLA/PBAd electrospun fibrous matrices, **Therma 2016**, Ioannina, 27-29 May 2016 (poster presentation).
15. **P. Siafaka**, D. Bikiaris, Electrospun fibrous mats of PLA/PBAd loaded Teriflunomide for the treatment of Rheumatoid Arthritis, **10th BPB World Meeting**, Glasgow, 4-7 April 2016 (poster presentation).
16. D. Bikiaris, C. Koulouktsi, **P. Siafaka**, S. Nanaki, E. Koutris, E. Karavas, PCL-TPGS microparticles loaded Aledronate API for osteoporosis treatment, **10th BPB World Meeting**, Glasgow, 4-7 April 2016 (poster presentation).
17. **P. Siafaka**, C. Koulouktsi, S. Nanaki, E. Koutris, E. Karavas and D. Bikiaris, Biodegradable microparticles loaded with SBA-Taxol as anticancer carriers, **10th BPB World Meeting**, Glasgow, 4-7 April 2016 (poster presentation).
18. **P. Siafaka,** A. Zisi, M. Exindari, D. Bikiaris, Porous dressings of chitosan modified with poly(2-hydroxythylacrylate) for antibacterial wound applications, **10th Anniversary conference of Hellenic Biomaterial Society**, Athens, Greece, 26-28 November 2015 (oral presentation).
19. N. Üstündağ Okur, **P. Siafaka**, D. Bikiaris, Opthalmic delivery of Terbinafine Hydrochloride loaded polycaprolactone electrospun fibers, **International Multidisciplinary symposium on Drug Research & Development**, Eskisehir, Turkey**,**15-17 October 2015 (poster presentation).
20. **P. Siafaka**, C. Koulouktsi, S. Nanaki, V. Tsanaktsis, E. Karavas, E. Koutris, D. Bikiaris, Biodegradable copolymers of poly(ε-caprolactone) and D-a-tocopheryl polyethylene glycol 1000 succinate as drug carriers, **5th International Conference on Biobased and Biodegradable Polymers**, Donostia-San Sebastian, Spain, 6-9 October 2015 (poster presentation).
21. M. Filippousi, S. Turner, K. Leus, P. Van Der Voort, S. Nanaki, **P. Siafaka**, D. N. Bikiaris, E. Tseligka, I. Viziriannakis, and G. Van Tendeloo, Zr-based nano metal organic frameworks coated with modified poly(ε-caprolactone) as drug carriers, **Latest Advances on Nanomaterials for Biomedical Applications (NANOBIOAPP2015)**, Barcelona, Spain, 21-23 September 2015 (oral presentation).
22. N. Üstündağ Okur, **P. Siafaka**, D. Bikiaris, Chitosan coated polycaprolactone inserts of Terbinafine HCL : Preparation and evaluations, **International Eurasia Pharmacy Congress**, Faculty of Pharmacy, Erzincan University, Erzincan, Turkey**,** September 2015 (oral presentation).
23. D. Lambropoulou, S. Nanaki, G. Kyzas, D. Bikiaris, **P. Siafaka**, Effectively designed molecularly imprinted polymers for selective isolation of the antifungal drug fluconazole, **Frontiers in Polymer Science 2015**, Lake Garda, Italy, May 2015 (oral presentation).
24. S. Nanaki, Ch. Koulouktsi, **P. Siafaka**, K. Triantafyllidis, D. Bikiaris, PLGA microspheres containing SBA-15 loaded with taxol; Preparation and characterization. **12th Panhellenic Conference of Chemistry Greece-Cyprus**, Thessaloniki, Greece, 8-10 May 2015 (poster presentation).
25. C. Nitsos, **P. Siafaka**, S. Nanaki, E. Roumeli, K. Chrissafis, E. Athanasiadou, E. Papadopoulou, E. Alexopoulou, D. Bikiaris, K. Triantafyllidis, Isolation of cellulose from lignocellulosic materials and utilizing them as feedstock for the preparation of nanoparticles,**12th Panhellenic Conference of Chemistry Greece-Cyprus**, Thessaloniki, Greece, 8-10 May 2015 (oral presentation).
26. M. Lazaridou, **P. Siafaka,** M. Kostoglou, D. Bikiaris, Sustained release transdermal patches of

Risperidone drug: Data Analysis and Modeling, **12th Panhellenic Conference of Chemistry Greece-Cyprus**, Thessaloniki, Greece, 8-10 May 2015 (poster presentation).

27. **P. Siafaka**, D. Bikiaris, New Polymeric carriers for the treatment of rheumatoid Arthritis, **12th Panhellenic Conference of Chemistry Greece-Cyprus**, Thessaloniki, Greece, 8-10 May 2015 (oral presentation).
28. **P. Siafaka,** D. Bikiaris, Modified Chitosan sponges as antibacterial agents, **1st European Meeting in Pharmaceutics**, Reims, France, 13-14 April 2015 (poster presentation).
29. **P. Siafaka**, A. Titopoulou, E. Karavas, D.N. Bikiaris. Chitosan and its derivatives as appropriate nanocarriers for ocular release, **42nd CRS Annual Meeting & Exposition**, Edinburg, UK, 26-27 July 2015 (poster presentation).
30. **P. Siafaka**, M. Lazaridou, C. Koulouktsi, G. Papageorgiou, E. Koutris, E. Karavas, D. Bikiaris, Novel polymeric carriers for the sustained release of an antipsychotic drug, **1st European Meeting in Pharmaceutics**, Reims, France,13-14 April 2015 (poster presentation).
31. **P.I. Siafaka**, A. Titopoulou, E. Karavas, D. N. Bikiaris, N-Succinyl-g-Chitosan nanoparticles for glaucoma treatment, **10th Hellenic Polymer Society conference** with International Participation, Rio-Patras, Greece,4-6 December, 2014 (poster presentation).
32. G.Z. Kyzas, **P.I. Siafaka**, E.G. Pavlidou, K.J. Chrissafis, D.N. Bikiaris, Simultaneous adsorption of basic dye and heavy metal onto succinyl-grafted chitosan from wastewaters, **10th Hellenic Polymer Society conference** with International Participation**,** Rio-Patras, Greece, 4-6 December 2014 (poster presentation).
33. **P. Siafaka**, M. Mone, E. Pavlidou, E. Karavas, D. Bikiaris, Electrospun PCL nanofibers for transdermal delivery devices, **10th Hellenic Polymer Society conference** with International Participation**,** Rio-Patras, Greece December 4-6, 2014 (oral presentation).
34. C. Koulouktsi, **P. Siafaka,** G. Papageorgiou , D. Bikiaris, Study of cyclodextrin inclusion complexes of Lercanidipine and Hydrochlorothiazide using Differential Scanning Calorimetry, **THERMA 2014**, Larissa , Greece, 26-28 September 2014 (poster presentation).
35. **P. Siafaka**, M. Lazaridou, G.Z. Papageorgiou, D.N. Bikiaris, Miscibility studies of poly(e-caprolactone)/poly(propylene glutarate) blends as polymeric carriers of Risperidone API, using Differential Scanning Calorimetry, **THERMA 2014**, Larissa, Greece, 26-28 September 2014 (oral presentation).
36. D. Zachariadou, **P. Siafaka**, K. Triantafyllidis, D. Bikiaris**,** Adsorption of TAXOL into ordered mesoporous silica; characterization and release behaviour, **International Symposium on advanced Nanoporous and nanostructured materials**, Heraklion Crete, 3-4 September 2014, (poster presentation).
37. **P. Siafaka**, M. Mone**,** E. Pavlidou, D. Bikiaris**,** Effect of various parameters on morphology structure of PCL nanofibers, **30th Panhellenic Conference on Solid-State Physics and Materials Science**, Heraklion, Crete, 21-24 September 2014 (oral presentation).
38. C. Nitsos, S. Nanaki, **P. Siafaka**, D. Bikiaris, E. Roumeli, K. Chrissafis, E. Athanasiadou, E. Papadopoulou, E. Alexopoulou, K. Triantafyllidis, Characterization of kenaf and hemb fibers and their pre-treatment for cellulose isolation, **FIBRA-Fibre Crops as sustainable source of biobased material for industrial products in Europe and China**, Summer School, Lisbon, Portugal, 26-31 July 2014(oral presentation).
39. **P.I. Siafaka**, A. Titopoulou, M. Betsiou , I. Koutri, Ch. Kiziridi, E. Karavas, D.N. Bikiaris, Chitosan nanoparticles loaded Timolol as ophthalmic drops, **11th Isopt Clinical**,19-22 June 2014, Reykjavik (poster presentation).
40. **P.I. Siafaka**, S. Giannakopoulou, M. Betsiou, D.N. Bikiaris, I. Koutri, Ch. Kiziriid, E. Karavas, HP-B-

cyclodextrin-brinzolamide complexes: New formulation approaches to enhance bioavailability and solubility, **11th Isopt Clinical**, Reykjavik, 19-22 June 2014 (poster presentation).

41. **P.I. Siafaka**, S. Giannakopoulou, M. Betsiou, D.N. Bikiaris, I. Koutri, Ch. Kiziriid, E. Karavas, Enhance of solubility and release of Brinzolamide, using solid dispersions, **15th Medicinal Chemistry Conference**, Patra, Greece , 9-11 April 2014 (poster presentation).
42. **P. Siafaka**, M. Betsiou, S. Chaitidou, E. Koutris, G. Papanikolaou, E. Karavas, D. Bikiaris , Folic Acid-conjugated aliphatic polyester compounds in order to be used as anticancer drug carriers, **9th BPB World Meeting,** Lisbon, March 31-April 4 2014 (poster presentation).
43. **P.I. Siafaka**, S. Giannakopoulou, D.N. Bikiaris, I. Koutri, Ch. Kiziridi, S. Chaitidou, E. Karavas, New formulation approaches to improve solubility of a poorly water soluble drug, **5th BBBB Conference**, Athens, September 26-28 2013 (oral presentation).
44. A. Vassileiou, S. Papadimitriou, **P. Siafaka**, M. Betsiou, D. Bikiaris, E. Koutris, S. Chaitidou, E. Karavas, Aliphatic polyesters-PEG-MAL-FOLIC ACID nanoparticles as anticancer carriers: Synthesis, Formulation and Characterization, **ASMC 2013**, Moscow, Russia, May 5-8 2013 (poster presentation).
45. **P. Siafaka,** I. Grigoriadou, D. Bikiaris, D. Achilias, Synthesis, kinetics and characterization nanocomposites based on poly(2-hydroxyethyl methacrylate) and organomodified silica, **9th Panhellenic conference of Polymers**, Thessaloniki, Greece, 29 November -1 December 2012 (poster presentation).
46. **P. Siafaka,** D. S. Achilias, Synthesis, kinetics and characterization of poly(2-hydroxyethyl methacrylate) based nanocomposites, **MODEST**, Prague-Czech Rebublic, 2-6 September 2012 (poster presentation).
47. **P. Siafaka**, D.S. Achilias, Study of reaction kinetics of polymerization and properties of the nanocomposite material poly (2-hydroxy ethyl) with various types of nano-fillers, **5th Conference on Thermal Analysis,** Thessaloniki, Greece, 25-27 May 2012 (oral presentation).
48. A. Nikolaidis, D. Achilias, **P. Siafaka**, Influence of the Type and Amount of Organomodified Montmorillonite on the Polymerization Kinetics and Product Properties of Polymethacrylate based nanocomposites, **MODEST**, Athens, Greece, 5 – 9 September 2011(oral presentation).
49. **P.I. Siafaka**, A.K. Nikolaidis, D.S Achilias, C. W. Karagiannidis, Influence of the type and amount of organic nano-modified montmorillonite on kinetics of polymerization reaction of some alkyl methacrylate and properties of new nanocomposite materials, **21st Panhellenic Chemistry Conference** Thessaloniki, 9-12 December 2010 (oral presentation).
50. D. S. Achilias, L. Andriotis, I. A. Koutsidis, D. Louka, N. Nianias, **P. Siafaka**, Y. Tsagalias, G. Tsintzou, Recent advances in the chemical recycling of polymers (PP, PS, LDPE, HDPE, PVC, PC, Nylon, **21st Panhellenic Chemistry Conference**, Thessaloniki, 9-12 December 2010 (poster presentation).

Invited Lectures:

- 2017 Preparation of porous and fibrous polymeric carriers as drug delivery systems, Faculty of Pharmacy, Istanbul Medipol University

Reviewer in scientific journals

1. Scientific reports
2. Journal of Pharmacy and Pharmacology
3. Journal of Advanced Research
4. Journal of Drug Delivery Science and Technology
5. Acta Pharmaceutica Sciencia
6. Rannis Institute (Island funding)
7. International Journal of Pharmaceutics
8. Current Pharmaceutical Design
9. SAJ Pharmacy and Pharmacology (SAJPP)
10. Biotechnic & Histochemistry
11. Brazilian Journal of Pharmaceutical Sciences
12. Journal of Research in Pharmacy
13. Journal of Industrial and Engineering Chemistry
14. Istanbul Journal of Pharmacy
15. European Journal of Pharmaceutical sciences
16. International Journal of Pharmaceutical Research
17. Chemical Engineering Journal
18. Pharmaceutical Development and Technology
19. Journal of the Chilean Chemical Society
20. Micro and Nanosystems
21. Current drug delivery
22. Current Pharmaceutical Biotechnology
23. Current Vascular Pharmacology
24. Current Molecular Pharmacology
25. Protein and Peptide Letters
26. Current Drug Targets
27. Biomaterials Sciences
28. Cosmetics, MDPI
29. Expert Opinion on Drug Delivery

SYNERGY WITH TEACHING

Dr. Siafaka is an experienced Researcher and Academic in the field of Chemistry and Pharmaceutical Technology, with an extended scholar record (h-index=18 and 37 publications in international, peer-reviewed journals). Many topics in the content of the courses of Organic Chemistry, Chemistry of Pharmaceutical Natural Products, Principles of Biopharmaceutics - Pharmacokinetics and Elements of Pharmaceutical Technology, are strongly related with her Research expertise, thus she was assigned to teach these courses. Furthermore, Dr. Siafaka was assigned to teach Medical-Scientific Publications and Methodology of Research in Health Sciences, as she is an established and recognised Researcher.

3. Miliotou Androulla, cPhD

Publications in peer-reviewed journals

1. **Miliotou N. Androulla** and Papadopoulou C. Lefkothea.
CAR T-cell Therapy: A New Era in Cancer Immunotherapy.
Current Pharmaceutical Biotechnology, Volume 19, Issue 1, **2018**, Apr.
DOI: 10.2174/1389201019666180418095526
Number of citations: **151**

2. Vizirianakis S. Ioannis, **Miliotou N. Androulla**, Mystridis A. George, Andriotis G. Eleftherios, Andreadis Ioannis, Papadopoulou C. Lefkothea, Fatouros G. Dimitrios.
Tackling pharmacological response heterogeneity by PBPK modeling to advance precision medicine productivity of nanotechnology and genomics therapeutics.
Expert Review of Precision Medicine and Drug Development, Volume 4, Issue 3, **2019**, Apr.
DOI: 10.1080/23808993.2019.1605828
Number of citations: **5**

3. Georgios C. Kaiafas, Dionysia Papagiannopoulou, **Androulla N. Miliotou**, Anastasia S. Tsingotjidou, Parthenopi C. Chalkidou, Aikaterini C. Tsika, George A. Spyroulias, Asterios S. Tsiftsoglou, Lefkothea C. Papadopoulou
Assessment of biodistribution of TAT-L-Sco2 Fusion Protein, towards a Protein Therapeutic approach for Mitochondrial Neurodegenerative Disorders, due to SCO2 Mutations.
Journal of Molecular Genetics and Metabolism, Submitted for publication, September **2020**

4. Achilleas Kyriazopoulos, Aikaterini-Lamprini Alexiou, **Androulla N. Miliotou**, Lefkothea Papadopoulou, Antonios Hatzidimitriou, Dionysia Papagiannopoulou.
Effect of the triphenylphosphonium cation on the biological properties of new rhenium and technetium-99m fac-[M(CO)3(NSN)]+-type complexes: Synthesis, structural characterization, in vitro and in vivo studies.
Inorganica Chimica Acta, Volume 511, 1 October **2020**, 119807
DOI: 10.1016/j.ica.2020.119807

5. Isaia Symeonidou, Athanasios Gelasakis, **Androulla Miliotou**, Athanasios Angelou, Konstantinos Arsenopoulos, Sofia Loukeri, Elias Papadopoulos.
Rapid on site diagnosis of canine giardiosis: time vs. reliability
Parasites & Vectors, Submitted for publication, October **2020**

6. **Miliotou N. Androulla**, Pappas S. Ioannis, George Spyroulias, Efthimia Vlachaki, Asterios S. Tsiftsoglou, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.
Development of a novel PTD-mediated IVT-mRNA Delivery Platform for potential Clinical Application in Protein Therapy of Metabolic/Genetic Disorders
Molecular Therapy – Nucleic Acids, Submitted for publication, October **2020**

Book publications

1. **Miliotou N. Androulla** and Papadopoulou C. Lefkothea.
In Vitro-Transcribed (IVT)-mRNA CAR Therapy Development.
n: Swiech K., Malmegrim K., Picanço-Castro V. (eds)
Chimeric Antigen Receptor T Cells. Methods in Molecular Biology, vol 2086. Humana, New York, NY, **2019**, Nov. DOI: 10.1007/978-1-0716-0146-4_7. Number of citations: **2**

Oral Presentations and Posters

1. **Miliotou N. Androulla**, Pappas S. Ioannis, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.

IVT-mRNA conjugated to a protein transduction domain, as a novel gene delivery platform for protein replacement therapy.
Poster presentation at the **7th mRNA Health Conference**, at Berlin, Germany, on November 11-12, **2019**

2. **Miliotou N. Androulla**, Pappas S. Ioannis, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.
***A novel intracellular delivery technology for in vitro transcribed (IVT)-mRNAs*.**
Short Oral Presentation at the **70th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology** (HSBMB), at Athens, Greece, on November 28-December 1, **2019**

3. **Miliotou N. Androulla**, Pappas S. Ioannis, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.
Development of in vitro transcribed SCO2 mRNA as novel therapeutic approach in a mitochondrial disorder, due to SCO2 mutations.
Short Oral Presentation at the **69th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology** (HSBMB), at Larisa, Greece, on November 23-25, **2018**

4. **Miliotou N. Androulla**, Laspa G. Dimitra and Papadopoulou C. Lefkothea.
Cloning and expression of recombinant human α-globin through PTD technology: Study of its intracellular transduction in K562 proerythroid cell culture.
Poster presentation at the 10th Congress of the Hellenic Society for Basic and Clinical Pharmacology, at Ioannina, Greece, on May 25-27, **2018**.

5. **Miliotou N. Androulla** and Papadopoulou C. Lefkothea.
Cloning procedure for the production of the recombinant TAT-Sco2 fusion protein.
Short Oral Presentation at the 3rd Panhellenic Scientific Conference of Pharmacy Students Π.Ε.Σ.Φ.ΦΑ.), at Thessaloniki, Greece, on December 8-9, **2018**.

Participation in writing grant applications

2020: 2nd Call for H.F.R.I. Research Projects to Support Faculty Members & Researchers and Procure High-Value Research Equipment.

Title of proposal: Development of a CAR immunotherapy approach against melanoma via t he production of innovative in vitro transcribed mRNAs, deliverable through Protein Transduction Technology. Acronym: CARNAMELA-PTD

(Evaluation pending)

2020: 4th Call - H.F.R.I. Science & Society "Interventions to address the economic and social consequences of the COVID-19 pandemic"

Title of proposal: Development of a SARS-CoV-2 mRNA-vaccine via a novel PTD-IVT mRNA technology. Acronym: Thess-mRNA-CoVac

(Evaluation pending)

2019: 3rd Call for Action “Science and Society” “Research, Innovation and Dissemination Hubs”

Title of proposal: Dissemination of Pharmaceutical Knowledge and Scientific Methodology: The Vanguard from Researcher to Student. Acronym: PharmaGnosi

(Evaluation pending)

Granted Research Programs:

2019: "Support for researchers with an emphasis on young researchers-cycle B'"

Title of proposal: Development of an innovative approach to CAR technology in the context of oral cancer immunotherapy.

2017: 1st Call for H.F.R.I. Scholarships to PhD Candidates

Title of proposal: Development of in vitro transcribed mRNAs as Therapeutics for Metabolic/Monogenic Disorders, using the PTD Technology for their Intracellular Delivery.

SYNERGY WITH TEACHING

Ms. Miliotou is the Program's Coordinator and as a BSc holder in Biochemistry has the appropriate experience to teach the course of Biochemistry, due to the correlation with the included course content topics. Furthermore, the content of the course of Pharmacology is strongly related with her research interests, her PhD Thesis and her experience in co-operating of the corresponding Laboratory course at the School of Pharmacy, at the Aristotle University of Thessaloniki. Furthermore, her whole experience in teaching and research will provide her the necessary qualifications to teach and coordinate the Study Program.

ANNEX "5"

Short CVs and Detailed biographical notes of the new members of the teaching personnel.

Short CVs of the new Teaching Personnel and their qualifications

1. **Charalampous Agis**

   Mr. Charalampous is a Lecturer iat KES College, for the law courses. Mr. Charalampous is a Lawyer, graduated with Honours from the Birmingham City University, and he is specialized in Medical and Pharmaceutical Law, since he holds a corresponding Master's Degree from the University of Kent. Mr. Charalampous is also a PGC Blockchain Business Analyst (University of Nicosia) and he is certified in Medical Practice, for Ethical & Legal Issues, from the Aristotle University of Thessaloniki. Mr. Charalampous has an extensive experience in legal practise as a lawyer in several law firms in Cyprus.

2. **Christodolou Andri**

   Mrs Christodoulou Andri is a Lecturer at KES College, since 2007. She has obtained an MA in Communication and Journalism at Open University of Cyprus and a BSc in History and Archaeology at the National and Kapodistrian University of Athens. She is an experienced teacher in philology courses. During her MA, Ms. Christodoulou dealt with communication counselling, designing of communication strategy, public relations and social media. She teaches the course of Public Relations.

3. **Demetriou Andrea, cPhD**

   Ms. Demetriou is a Lecturer at KES College. She is a Mathematician, graduated with Honours from the University of Manchester and she has a Post-Graduate Certificate of Education (PGCE) in Secondary Mathematics, also from the University of Manchester. Ms. Demetriou possess an extensive experience in teaching Mathematics in numerous private schools in Cyprus. She is a PHD candidate in Math Education at Frederick University.

4. **Miliotou Androulla, cPhD**

   Miliotou N. Androulla is the Program Coordinator. She is PhD candidate in Molecular Pharmacology at the School of Parmacy, at the Aristotle University of Thessaloniki. Ms. Miliotou is going to support her PhD thesis by the end of October 2020. She also holds a Master in Science, in Pharmaceutical Biotechnology and Molecular Diagnostics, at the School of Parmacy, at the Aristotle University of Thessaloniki, completed with a distinction, and a Bachelor in Science, in Biochemistry and Biotechnology, at the University of Thessaly (graduated in top5, 2nd in rate at the time of graduating).

   Ms. Miliotou's PhD thesis is entitled: "Development of in vitro transcribed mRNAs as Therapeutics for Metabolic/Monogenic Disorders, using the PTD Technology for their

Intracellular Delivery", and was conducted at the Laboratory of Pharmacology, at the School of Parmacy, at the Aristotle University of Thessaloniki, under the supervision of Dr. Papadopoulou Lefkothea, where she also performed her Master Thesis dissertation Among the research interests of Ms. Miliotou is the development of a technology for the rapid and safe intracellular transduction of in vitro transcribed therapeutic mRNAs (IVT-mRNAs), via short peptides called Protein Transduction Domains. Actually, Ms Miliotou has developed an innovative delivery platform, which has been submitted as a patent (9389GR, Patent pending 20190100504 AUTh and UTh), which was accepted to be extended at an International Level on November 2020, with Dr. Vizirianakis I. and Dr. Pappas I., Assoc. Professors, as co-inventors and under the supervision of Dr. Papadopoulou. As models for exploiting the novel delivery platform developed during her PhD, Ms. Miliotou successfully dealt with monogenic disorders, like β-thalassemia, through the production of the IVT-mRNA of β-globin, and with metabolic disorders, like the mitochondrial fatal infantile cardioencephalomyopathy, with COX deficiency and mutations in *SCO2*, a COX assembly gene, producing the IVT-mRNA of SCO2. Through her PhD, Ms. Miliotou also dealt with cancer immunotherapy and more specific with Chimeric Antigen Receptor (CAR) immunotherapy, not only in preliminary experimental level, but also published a review, as the first author, about this technology, in 2018, which has earned 151 citations so far. She also contributed in writing a book chapter for CAR technology in combination with IVT-mRNA technology, in 2020, in the book: Swiech K., Malmegrim K., Picanço-Castro V. (eds) Chimeric Antigen Receptor T Cells. Methods in Molecular Biology, Springer Nature, as the first author. Recently, the submitted research program, by the research team that she is member, entitled: "Development of an innovative approach to CAR technology in the context of oral cancer immunotherapy" was also granted.

Ms. Miliotou received, in 2016, an IKY-Cyprus (State Scholarships Foundation) Scholarship supporting PhD students to elaborate doctoral thesis in Greece and/or abroad. In 2017, she received a fellowship from ELIDEK, the Hellenic Foundation for Research and Innovation's (HFRI's), at its first call for the financial support of doctoral candidates. Currently, she participates in a research program, funded by the call of NSRF, "Support for researchers with an emphasis on young researchers-cycle B'".

Ms. Miliotou has experience in a wide range of molecular biology methods and in the organization of complex protocols (among them: eukaryotic cell cultures, all methods around IVT-mRNA and transfection, western blot, qPCR, flow cytometry, histochemistry). She also has a lot of experience in lab management and an extensive experience in writing proposals for funding.

From 2013, Ms. Miliotou trained a large number of postgraduate and undergraduate students and has undertaken the co-operation and organization/execution of laboratory courses of Pharmacology, in the undergraduate program, at the School of Pharmacy, at the Aristotle

University of Thessaloniki, as well as several courses at IEK Paster, a private college in Thessaloniki.

5. Dr. Oulas Anastasios

Dr. Oulas Anastasios is a Senior Lecturer in KES College and a postdoctoral fellow of the Bioinformatics Group. He holds a BSc in Molecular Genetics at Sussex University (UK), with 2.1 honours., an MSc in Computational Genetics and Bioinformatics at Imperial College (UK), completed with a distinction, and a PhD in Computational Prediction of Gene Classifiers and miRNAs in Cancer. His PhD Thesis was entitled: "Computational Prediction of Gene Classifiers and miRNAs in Cancer".

His current research interests focus on large scale analysis of genomics and other –omics data as well as variant analysis and interpretation. Dr. Oulas is an expert in Next generation Sequencing (NGS) data analysis (genomics, metagenomics, RNA-Seq), microarray data analysis, classification analysis and clustering. Furthermore, among his research interests is the development of command-line based and graphic user interface stand-alone software packages, web service development for running bioinformatics related software (e.g. SSCprofiler - http://mirna.imbb.forth.gr/SSCprofiler.html) and computational prediction of microRNA genes and targets (Targetprofiler - http://mirna.imbb.forth.gr/Targetprofiler.html). He is also expereince in web lab techniques like cloning, sub-cloning, mini DNA preparation, PCR, competent cell preparation, transformation, ligation, agarose gel electrophoresis, northern blot analysis, transfection, growth of cell culture, luciferase assays and in working with small-RNAs.

Regarding his academic and professional experience, Dr. Oulas was a research assistant at the Department of Bioinformatics, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas, under the supervision of Dr. Yiota Poirazi. Next, he served as a Postdoctoral fellow at the Bioinformatics Laboratory, Division of Medicine, University of Crete., under the supervision of Dr. Ioannis Iliopoulos. He was also a Postdoctoral fellow at the RNA Laboratory, Institute of Molecular Biology, Foundation of Research and Technology, under the supervision of Dr.Kriton Kalantidis (Assis. Professor). Dr. Oulas was also a Senior research fellow at the Institute of Marine Biology, Biotechnology and Aquacultures - Hellenic Centre for Marine Research, under the supervision of Dr. Georgios Kotoulas and Dr Christos Arvanitidis. Currently, he is a Research fellow at the Bioinformatics Group, The Cyprus Institute of Neurology and Genetics (CING), under the supervision of Dr Giorgos Spyrou.

6. **Panayiotou Elena, cPhD**

Ms Elena Panayiotou is a business studies Lecturer at KES College since 2020. She holds an MBA from the Mediterranean Institute of Management and a BA in Economics from the University of Cyprus. In addition, she is a PhD candidate in Business Administration and her academic and research interests include the effect of corporate culture on accounting procedures and connection between job satisfaction, employee loyalty and productivity.

7. **Papadopoulos Elias M.D.**

Dr. Papadopoulos is a Senior Lecturer in KES College since 2006. He graduated from the School of Medicine, at the Aristotle University of Thessaloniki and he was specialized in General Surgery and Pediatric Surgery. He is also specialized in Pre-Hospital Emergency Care Council, Catastrophic Disaster Medical care and he was a member of the Doctors of the World Organization. At KES College, Dr. Papadopoulos teaches the courses of Human Anatomy, Physiology, Nosology and other courses of his speciality.

8. **Savvidou Katerina**

Ms. Savvidou is a Lecturer at KES College. Ms. Savvidou holds a Bachelor and a Master's Degree in Pharmacy, from the University of Brighton, School of Pharmacy and Biomolecular Sciences and she is a registered Pharmacist in Cyprus. Furthermore, she is a specialist in Drug Regulatory Sector (MRP/DCP Group) and she extensively worked as a Regulatory Affairs Manager. Ms. Savvidou also holds a Master in Business Administration and she teaches courses that combine the science of pharmacy with economics, marketing and sales.

9. **Dr. Siafaka Panoraia**

Dr. Panoraia Siafaka is a Senior Lecturer in KES College and holds a PhD degree in Polymer Chemistry-Technology specialized in Pharmaceutical Technology applications, from the School of Chemistry at Aristotle University of Thessaloniki. She has previously completed her BSc in Chemistry and MSc Diploma in Polymer Chemistry-Technology of the same University. The last years she is in an ongoing collaboration with Faculty of Pharmacy, Department of Pharmaceutical Technology of Istanbul Medipol University and University of Health Sciences, in Istanbul. Dr. Siafaka has participated in 4 research projects and has obtained a Research Excellence Scholarship (2014) as best PhD candidate from the Research Committee of Aristotle University of Thessaloniki. Her research interests include the synthesis of novel materials based on macromolecules as drug carriers, designing of novel drug delivery systems and the studying pharmacology and pharmacokinetics approaches of the developed systems.

During her PhD fellowship, she managed to publish articles in highly prestigious Journals such as Chemical Engineering Journal (Impact Factor: 10.652), European Journal of Pharmaceutics and Biopharmaceutics (IF:4.748), International Journal of Pharmaceutics (IF:4.417) and European Journal of Pharmaceutical Sciences (IF:3.532) as well as Carbohydrate Polymers (IF:6.044). At present, she has published 37 articles in Pharmaceutical and Chemical Journals while currently more than 10 papers are under review. Moreover, 50 presentations (oral and poster) have been presented in national and International Conferences-one of which has been awarded with the 1st Prize as best poster presentation. She has been reviewer in 30 Journals and evaluator of Funding Programs. She has numerous international collaborations with Researchers of various disciplines. As PhD candidate and Visiting Researcher in the aforementioned departments, she has delivered lectures and participated in teaching activities to graduate and undergraduate students. The last decade she has been working as Science Tutor for students of all ages. In further, she has been collaborating in grant writing activities with various Research Teams. She has participated in 30 National and International Conferences as well as in training and development seminars related with her studies and Educational field.

10. Tserkezou Maria

Ms. Tserkezou is a Lecturer at KES College since 2020, in English courses. She obtained a BA in English Language and Literature, from the Aristotle University of Thessaloniki and a MA in English Language Teaching, from the University of Essex. She is currently studying for a Degree in Journalism, too. Ms. Tserkezou participated in numerous national and international conferences. She has an extensive experience as a teacher in many private schools and in a University, as well.

11. Xenou Aikaterini

Ms. Xenou is a Lecturer at KES College. She graduated of the Department of Public Health at the Athens Technical University, with a degree in Health Inspector - Public Health - Environmental Health, Master's Degree in Management of Health Units and Services, and in Business Administration (MBA). She is a licensed “Public Health Inspector”. She is specialized in Human Resources Management and Health Organizations, Public Health and Management, Research Methodology Operational Management and Logistics etc. Ms. Xenou also participated in numerous conferences. She is teaching the course of Public Health.

12. Yerocostas Costas

Mr Costas Yerokostas is a Lecturer at KES College from 2005 - May 2016 and October 2017 - present. He holds an MBA and a BSc in Marketing Management from the University of Florida

Metropolitan. Between 2016 and 2017 he was employed as a Deputy Academic Director at a higher education institution. He also worked as the Head of the Marketing & Subscriptions Service Department at CreditInfo Cyprus from 2004 to 2008 and at Leptos Group of Companies as a Marketing Executive from 2000 to 2002. He teaches courses of his speciality.

DETAILED BIOGRAPHICAL NOTES OF THE NEW MEMBERS OF THE TEACHING PERSONNEL

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**CHARALAMBOUS**
Name:	**AGIS**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PGC	2018	UNIVERSITY OF NICOSIA	BUSINESS	BLOCKCHAIN BUSINESS ANALYST
MASTER IN MEDICAL LAW	2016	UNIVERSITY OF KENT	MEDICAL	LLM MEDICAL LAW
BACHELOR IN LAW	2013	BIRMINGHAM CITY UNIVERSITY	LAW	LLB LAW (HONS)

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2018	2020	MICHAEL KYPRIANOU & CO LLC		ADVOCATE
2017	2018	ANTIS TRIANTAFYLLIDIS & SONS LLC		LEGAL TRAINEE
2016	2016	THE GARDEN RESTAURANT	NICOSIA	EVENT PLANNING DEPARTMENT

Birmingham City University

Transcript of Learning and Achievement

Name : Agis Charalambous

Student Number : 12761425/1 **Date of Birth :** 14/06/1993 **HESA Reference Number :** 1310520010388

Programme : Bachelor of Laws with Honours

Qualification : Bachelor of Laws with Honours

Faculty : Faculty of Business, Law and Social Sciences

Awarding Institution : Birmingham City University **Administering Institution :** Birmingham City University

Language of Instruction : English **Language of Assessment :** English

Official Length of Programme : 3 Years **Mode of Study :** Full Time

		Credit	Mark	Grade
Credit Level : 4				
LAW4001	Criminal Law	30.0	71.0	Pass
LAW4002	Law of Contract	30.0	61.5	Pass
LAW4003	Law of Tort	30.0	70.0	Pass
LAW4004	Skills, Processes and Scholarship	30.0	78.5	Pass
Credit Level : 5				
LAW5002	Land Law	30.0	64.2	Pass
LAW5004	Public Law and Civil Rights	30.0	46.0	Pass
LAW5040	International Human Rights Law	30.0	73.0	Pass
LAW5047	Professional Skills and Practice	30.0	63.0	Pass
Credit Level : 6				
LAW6012	Evidence, Proof and Argument	30.0	68.3	Pass
LAW6016	Family Law	30.0	60.4	Pass
LAW6040	Equity and Trusts	30.0	52.0	Pass
LAW6042	Law of the European Union	30.0	62.0	Pass

Total Credits Passed :
360.0 (180.0 ECTS Credits)

Award Classification :
Second Class: Division I

Date of Award :
28 June 2016

Average Mark :
65.93

Date Diploma Supplement Issued :
28 June 2016

Professor Cliff Allan FRSA
Vice-Chancellor

UNIVERSITY OF KENT

It is hereby certified that

AGIS CHARALAMBOUS

was admitted to the degree of

Master of Laws

in Medical Law and Ethics

with Merit

at a Congregation of this University held on

17 July 2018

Vice-Chancellor

Academic Registrar

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00079181

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES Schools
Surname:	Christodoulou
Name:	Andrie
Rank:	Higher Education
Program of Study:	Journalism with Public Relations, Office Administration and Secretarial Studies, Medical Representatives Travel & Tourism Management, Foundation
Scientific Domain: *	Greek Literature and Language, History, Communication, Public Relations

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MA in Communication and Journalism	2015	Open University of Cyprus	Faculty of Humanities and Social Sciences	
BA History and Archaeology	2006	National and Kapodistrian University of Athens	Faculty of Philosophy	• "Medieval History – Crete during Venetian rule" • "Social minorities in Venetian ruled Greece - The position of women during Venetian rule"

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
July 2007	Today	KES Schools	Nicosia	Greek Literature and Language, History, Communication, Public Relations Teacher
February 2016	January 2018	Asylum, Migration and Integration Fund (AMIF) – Republic of Cyprus	Nicosia	Part of the European programme for Greek language learning
September 2008	May 2010	Silver Smile	Nicosia	Head of Reading Centre

ΑΡΙΘ. ΠΡΩΤΟΚΟΛΛΟΥ :3589

ΕΘΝΙΚΟΝ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟΝ ΠΑΝΕΠΙΣΤΗΜΙΟΝ ΑΘΗΝΩΝ

ΕΤΟΣ 169ον

Η ΑΝΤΡΙΑΝΗ Π. ΧΡΙΣΤΟΔΟΥΛΟΥ
ΕΚ ΣΤΡΟΒΟΛΟΥ ΚΥΠΡΟΥ ΟΡΜΩΜΕΝΗ

ΠΕΡΙ ΤΗΝ ΙΣΤΟΡΙΑΝ ΚΑΙ ΑΡΧΑΙΟΛΟΓΙΑΝ

ΕΙΔΙΚΕΥΣΙΣ : ΙΣΤΟΡΙΑΣ

ΕΝ ΤΩ ΑΘΗΝΗΣΙ ΠΑΝΕΠΙΣΤΗΜΙΩ

ΣΠΟΥΔΑΣΑΣΑ

ΚΑΙ ΜΕΤ' ΑΚΡΙΒΗ ΔΟΚΙΜΑΣΙΑΝ ΑΞΙΩΘΕΙΣΑ ΤΟΥ ΒΑΘΜΟΥ

'ΛΙΑΝ ΚΑΛΩΣ'

ΕΝΕΚΡΙΘΗ ΕΙΣ ΤΟΥΣ ΠΤΥΧΙΟΥΧΟΥΣ

ΤΗΣ ΙΣΤΟΡΙΑΣ ΚΑΙ ΑΡΧΑΙΟΛΟΓΙΑΣ

ΕΤΕΙ ΕΚΤΩ, ΚΑΙ ΔΙΣΧΙΛΙΟΣΤΩ,
ΜΗΝΟΣ ΙΟΥΛΙΟΥ ΤΡΙΑΚΟΣΤΗ

ΕΓΕΝΕΤΟ ΤΟΔΕ ΜΗΝΟΣ ΟΚΤΩΒΡΙΟΥ 5η ΕΤΕΙ 2006

Ο ΠΡΥΤΑΝΙΣ **Ο ΠΡΟΕΔΡΟΣ**

ΧΡΗΣΤΟΣ ΚΙΤΤΑΣ ΚΩΝ/ΝΟΣ ΜΠΟΥΡΑΖΕΛΗΣ

Η ΓΡΑΜΜΑΤΕΥΣ

ΕΛΕΝΗ ΜΑΝΤΖΟΥΡΑΝΗ

ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟΝ ΕΚ ΤΟΥ ΕΝ ΤΩ ΑΡΧΕΙΩ ΠΡΩΤΟΤΥΠΟΥ.

ΕΝ ΑΘΗΝΑΙΣ ΤΗ 5-10-2006

Η ΓΡΑΜΜΑΤΕΥΣ ΤΟΥ ΤΜΗΜΑΤΟΣ

ΕΛΕΝΗ ΜΑΝΤΖΟΥΡΑΝΗ

ΑΝΟΙΚΤΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ

Η Διοικούσα Επιτροπή του ΑΝΟΙΚΤΟΥ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΚΥΠΡΟΥ ενεργώντας ως Σύγκλητος του Ιδρύματος, αφού πιστοποίησε την επιτυχή ολοκλήρωση της φοίτησης και όλων των συναφών ακαδημαϊκών υποχρεώσεων, ύστερα από εισήγηση της Σχολής Ανθρωπιστικών και Κοινωνικών Επιστημών,

απονέμει στην

Ανδριανή Χριστοδούλου

τον

ΜΕΤΑΠΤΥΧΙΑΚΟ ΤΙΤΛΟ

MAGISTER ARTIUM

ΕΠΙΚΟΙΝΩΝΙΑ ΚΑΙ ΔΗΜΟΣΙΟΓΡΑΦΙΑ (ΕΠΙΚΟΙΝΩΝΙΑ)

Ο Τίτλος αυτός κατοχυρώνει όλα τα δικαιώματα που απορρέουν από αυτόν.

Λευκωσία

Τριακοστή Πρώτη Ιουλίου του έτους Δύο Χιλιάδες Δεκαπέντε.

ΑΝΟΙΚΤΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ

TRUE COPY
ΠΙΣΤΟ ΑΝΤΙΓΡΑΦΟ

ΠΡΟΕΔΡΟΣ ΔΙΟΙΚΟΥΣΑΣ ΕΠΙΤΡΟΠΗΣ

ΑΝΤΙΠΡΟΕΔΡΟΣ ΑΚΑΔΗΜΑΪΚΩΝ ΘΕΜΑΤΩΝ

ΑΝΤΙΠΡΟΕΔΡΟΣ ΟΙΚΟΝΟΜΙΚΩΝ ΘΕΜΑΤΩΝ

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES COLLEGE
Surname:	DEMETRIOU
Name:	ANDREA
Rank:	LECTURER
Program of Study:	
Scientific Domain: *	MATHEMATICS & STATISTICS

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD Math Education	2016	Frederick University	Education	Doctorate candidate
PGCE Maths	2011	University Manchester	Mathematics	
BSC Hons Maths	2010	University Manchester	Mathematics	

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
September 2018	August 2020	English School	Nicosia	Maths Teacher
October 2017	June 2018	Grammar School	Nicosia	Maths Teacher
September 2015	August 2017	GC School	Nicosia	Maths Teacher

The University of Manchester

By virtue of the powers granted to it by the Charter and Statutes and the authority of the Senate the University has this day awarded the Degree of

BACHELOR OF SCIENCE

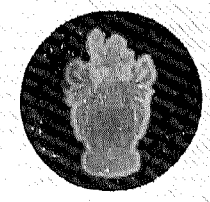
in the Faculty of Engineering and Physical Sciences

Mathematics

to

Andrea Demetriou

who has satisfied the Examiners in the Final Examination for the Degree with Honours, being placed in the Second Class, Division Two.



24 June 2010

Registrar and Secretary

The University of Manchester

By virtue of the powers granted to it by the Charter and Statutes and the authority of the Senate the University has this day granted the award of

POSTGRADUATE CERTIFICATE IN EDUCATION

in the Faculty of Humanities

Secondary (Mathematics)

to

Andrea Demetriou

who has satisfied the Examiners in the Final Examination for the Certificate.

28 June 2011

Registrar and Secretary

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES COLLEGE
Surname:	MILIOTOU
Name:	ANDROULLA
Rank:	SENIOR LECTURER
Program of Study:	MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING
Scientific Domain: *	BIOCHEMISTRY, BIOTECHNOLOGY, MOLECULAR PHARMACOLOGY

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD Candidate	2016-2020	ARISTOTLE UNIVERSITY OF THESSALONIKI	SCHOOL OF PHARMACY	DEVELOPMENT OF IN VITRO TRANSCRIBED MRNA AS THERAPEUTICS FOR METABOLIC/MONOGENIC DISORDERS USING PTD TECHNOLOGY FOR THEIR INTRACELLULAR DELIVERY
MSc	2013-2016	ARISTOTLE UNIVERSITY OF THESSALONIKI	SCHOOL OF PHARMACY	CLONING AND EXPRESSION OF RECOMBINANT PROTEINS THROUGH PTD TECHNOLOGY: STUDY OF THEIR INTRACELLULAR TRANSDUCTION IN CELL CULTURE
BSc	2008-2013	UNIVERSITY OF THESSALY	BIOCHEMISTRY AND BIOTECHNOLOGY	CHARACTERIZATION OF MOLECULES THAT INTERACT WITH MITOCHONDRIAL GLUCOCORTICOID RECEPTOR

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2017	2019	IEK PASTER	THESSALONIKI	LECTRURER
2014	2017	ARISTOTLE UNIVERSITY OF THESSALONIKI	THESSALONIKI	CO-TEACHING UNDERGRADUATE LABORATORY COURSES PHARMACOLOGY I+II

Key ***refereed*** journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher/ Conference	Vol.	Pages
1	2018	"CAR T-CELL THERAPY…"	MILIOTOU & PAPADOPOULOU	CUR PHARM BIOTECH	19	5-18
2	2019	"TALKING PHARMACOLOGICAL…"	VIZIRIANAKIS, MILIOTOU ET AL	EXP REVIN PRECISION MED	4	1-13
3	2020	"IN VITRO-TRANSCRIBED (IVI) …"	MILIOTOU & PAPADOPOULOU	BOOK METHODS IN MOL. BIO.	2086	87-117
4	2020	"EFFECT OF THE TRIPHENGL …"	KYRIAZOPOULOS, ALEXIOU, MILIOUTOY ET AL.	INORGANICA CHIM ACTA	511	11987
5	2019	"IVT-MRMA CONJUGATED…"	MILIOTOU, PAPPAS, ET AL.	7TH MRNA CONF.	CONF. BOOK	2
6	2019	"A NOVEL INTRACELLULAR…"	MILIOTOU, PAPPAS, ET AL.	70TH HSBMAB CONF.	CONF. BOOK	40

7	2018	“DEVELOPMENT OF IN VITRRO…”	MILIOTOU, PAPPAS, ET AL.	69TH HSBMAB CONF.	CONF. BOOK	023
8	2020	“DEVELOPMENT OF A NOVEL PTD-MEDIATED IVT-MRNA…”	MILIOTOU N. ANDROULLA, PAPPAS S. IOANNIS, ET AL.	MOLECULAR THERAPY – NUCLEIC ACIDS (UNDER REVIEW)		
9	2020	“ASSESSMENT OF BIODISTRIBUTION OF TAT-L-SCO2 …”	GEORGIOS C. KAIAFAS, DIONYSIA PAPAGIANNOPOULOU, ANDROULLA N. MILIOTOU, ET AL.	MOLECULAR GENETICS AND METABOLISM (UNDER REVIEW)		
10	2020	“INTRACELLULAR DELIVERY OF B-GLOBIN IVT-MRNA, VIA THE PTD TECHNOLOGY...”	MILIOTOU, PAPPAS, ET AL.	8TH MRNA CONF.	CONF. BOOK	30

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	**Date**	**Topic**	**International / Local**	**Location***	**Role in Exhibition**
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

*Specify venue, geographic location etc

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	**Date**	**Title**	**Funded by**	**Project Role***
1	2020	“DEVELOPMENT OF A CAR IMMUNOTHERAPY…”	HFRI GREECE	BASIC RESEARCH TEAM MEMBER (EVALUATION PENDING)
2	2020	“DEVELOPMENT OF A SARS-COV-2…”	HFRI GREECE	BASIC RESEARCH TEAM MEMBER (EVALUATION PENDING)
3	2019	“DISSEMINATION OF PHARMACEUTICAL…”	HFRI GREECE	BASIC RESEARCH TEAM MEMBER (EVALUATION PENDING)
4	2020	“SRPK1 ΚΙΝΑΣΗ: ΈΝΑΣ ΝΕΟΣ ΡΟΛΟΣ ..’’	"SUPPORT FOR RESEARCHERS WITH AN EMPHASIS ON YOUNG RESEARCHERS-CYCLE B'"	BASIC RESEARCH TEAM MEMBER
5	2017-2019	“DEVELOPMENT OF IN VITRO TRANSCRIBED…”	HFRI GREECE	BASIC MEMBER, PHD CANDIDATE
6				
7				
8				
9				
10				

*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1				
2				
3				
4				
5				

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	**Date**	**Title**	**Awarded by:**
1	2016	SCHOLARSHIP FOR PHD STUDENTS	IKY CYPRUS
2	2018	SILVER MEDAL AS ADVISOR	I GEM, CAMBRIDGE, MA
3	2019	TRAVEL AWARD	HELLENIC SOCIETY FOR BIOCHEMISTRY AND MOL. BIOLOGY
4	2017-2020	FELLOWSHIP FOR FINANCIAL SUPPORT OF DOCTORIAL CANDIDATES	HFRI GREECE
5	2019 - 2020	PATENT-PENDING IN NATIONAL LEVEL	SUPPORTED BY ARISTOTLE UNIVERSITY OF THESSALONIKI AND UNIVERSITY OF THESSALY
6			
7			
8			
9			
10			

Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	**Date**	**Title**	**Key Activities:**
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΦΑΡΜΑΚΕΥΤΙΚΗΣ

Γραμματεία

Πληροφορίες: Μ. Χατζόγλου

Τηλ.: 2310997623 *Fax:* 2310997612
e-mail: info@pharm.auth.gr
Κτίριο: Βιολογικού (γραφ.406)

ΑΝΑΡΤΗΤΕΟ ΣΤΟ ΔΙΑΔΙΚΤΥΟ

Θεσσαλονίκη, 17 Ιουνίου 2020
Αριθμ. Πρωτ. 1178
ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟ

Προς
- τους κ.κ. - Λευκοθέα Παπαδοπούλου, Αναπλ. Καθηγήτρια Τμήματος Φαρμακευτικής Α.Π.Θ. (επιβλέπουσα)
- Ιωάννη Βιζιριανάκη, Αναπλ. Καθηγητή Τμήματος Φαρμακευτικής Α.Π.Θ.
- Ιωάννη Παππά, Αναπλ. Καθηγητή Τμήματος Κτηνιατρικής Παν/μίου Θεσσαλίας
- Χρήστο Παναγιωτίδη, Καθηγητή Τμήματος Φαρμακευτικής Α.Π.Θ.
- Γεώργιο Σπυρούλια, Καθηγητή Τμήματος Φαρμακευτικής Παν/μίου Πατρών
- Γεώργιο Σίμο Καθηγητή Τμήματος Ιατρικής Παν/μίου Θεσσαλίας
- Ελένη Νικολακάκη, Αναπλ. Καθηγήτρια Τμ. Χημείας Α.Π.Θ.

Θέμα: «Ορισμός Επταμελούς Εξεταστικής Επιτροπής»

Κύριοι Συνάδελφοι,

Θα θέλαμε να σας πληροφορήσουμε ότι η Συνέλευση του Τμήματος Φαρμακευτικής Α.Π.Θ. στη συνεδρίασή της με αριθ. 562/28-5-2020, ύστερα από πρόταση της τριμελούς συμβουλευτικής επιτροπής αποτελούμενης από τους κ.κ. Λευκοθέα Παπαδοπούλου (επιβλέπουσα), Ιωάννη Βιζιριανάκη και Ιωάννη Παππά (αριθ. εγγρ. 1059/21-5-2020), αποφάσισε σε εφαρμογή των διατάξεων του άρθρου 41 του Ν. 4485/2017, να σας ορίσει ως μέλη της Επταμελούς Εξεταστικής επιτροπής, για τη συνέχιση της περαιτέρω διαδικασίας, για την τελική κρίση της διδακτορικής διατριβής που εκπονεί η πτυχιούχος του Τμήματος Φαρμακευτικής του Α.Π.Θ., υποψήφια διδάκτορας, κ. Αντρούλλα Μηλιώτου με θέμα: «Ανάπτυξη mRNA μορίων στη θεραπευτική προσέγγιση μεταβολικών / μονογονιδιακών νοσημάτων με την αξιοποίηση της τεχνολογίας των Πεπτιδίων Μεταγωγής (PTDs/CPPs)» και σας παρακαλούμε για τις σχετικές ενέργειες, σύμφωνα με τις διατάξεις του μνημονευθέντος ανωτέρω νόμου.

Κοινοποίηση:
- Ενδιαφερόμενη

Με τιμή
Η Πρόεδρος του Τμήματος

Δήμητρα Χατζηπαύλου-Λίτινα
Καθηγήτρια

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΦΑΡΜΑΚΕΥΤΙΚΗΣ – Π.Δ.Σ.

Αριθ. Πιστ.: - 46

ΠΙΣΤΟΠΟΙΗΤΙΚΟ

Πιστοποιείται η ακρίβεια των εξής στοιχείων:

ΕΠΩΝΥΜΟ: Μηλιώτου
ΟΝΟΜΑ: Αντρούλλα
ΠΑΤΡΩΝΥΜΟ: Νικόλαος
ΤΟΠΟΣ ΓΕΝΝΗΣΕΩΣ: Στρόβολος Κύπρος
ΕΤΟΣ ΓΕΝΝΗΣΕΩΣ: 1990
ΑΡΧΙΚΗ ΕΓΓΡΑΦΗ: 27-9-2016 **ΠΑΝ/ΚΟ ΕΤΟΣ:** 2016-2017
ΤΜΗΜΑ ΦΑΡΜΑΚΕΥΤΙΚΗΣ ΣΤΟ ΠΡΟΓΡΑΜΜΑ ΔΙΔΑΚΤΟΡΙΚΩΝ ΣΠΟΥΔΩΝ (Π.Δ.Σ.) ΕΤΟΣ ΣΠΟΥΔΩΝ Α' (ΣΥΝΟΛΟ: 3 ΕΤΗ = 6 ΕΞΑΜΗΝΑ.)
ΑΠΟΦΑΣΗ της Γ.Σ.Ε.Σ. του Τμήματος στη συνεδρίασή της αριθ. 206/27-9-2016.
ΔΙΚΑΙΟΛΟΓΗΤΙΚΑ ΕΓΓΡΑΦΗΣ: τα νόμιμα.

Η παραπάνω γράφτηκε στο Π.Δ.Σ. του Τμήματος Φαρμακευτικής (ως κάτοχος Μεταπτυχιακού Διπλώματος Ειδίκευσης, σύμφωνα με τον εσωτερικό κανονισμό του Π.Μ.Σ. του Τμήματος) προκειμένου να εκπονήσει Διδακτορική Διατριβή στον Τομέα Φαρμακογνωσίας-Φαρμακολογίας του Τμήματος, με επιβλέπουσα καθηγήτρια την αναπληρώτρια καθηγήτρια του Τμήματος κ. Λ. Παπαδοπουλου (απόφ. Γ.Σ.Ε.Σ. του Τμήματος αριθ. 206/27-9-2016).

Το θέμα της Διδακτορικής Διατριβής: «Ανάπτυξη MRNA μορίων στη θεραπευτική προσέγγιση μεταβολικών/μονογονιδιακών νοσημάτων με την αξιοποίηση της τεχνολογίας της Μεταγωγής Πεπτιδίων (PTDs/CPPs)» (και η τριμελής συμβουλευτική επιτροπή ορίστηκαν στη συνεδρίαση της Γ.Σ.Ε.Σ. του Τμήματος αριθ. 210/6-2-2017, η ημερομηνία της οποίας θα αποτελεί και την ημερομηνία έναρξης της εκπόνησης της Διδακτορικής της Διατριβής.

Ο χρόνος σπουδών είναι το ελάχιστο 6 εξάμηνα και ο μέγιστος 12 εξάμηνα.

Το πιστοποιητικό αυτό χορηγείται για χρήση στην Ελλάδα 'η στο εξωτερικό και υπογράφεται από την Προϊσταμένη της Γραμματείας του Τμήματος, σύμφωνα με την υπ' αριθμ. 17992/29.1.2015 Πρυτανική Απόφαση (ΦΕΚ 334/10.3.2015 τ.Β').

Θεσσαλονίκη 13-2-2017
Με εντολή του Πρύτανη
Η Προϊσταμένη
της Γραμματείας του Τμήματος

Κ. ΣΥΜΕΩΝΙΔΟΥ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ
ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΦΑΡΜΑΚΕΥΤΙΚΗΣ
ΜΕΤΑΠΤΥΧΙΑΚΟ ΤΜΗΜΑΤΟΣ ΦΑΡΜΑΚΕΥΤΙΚΗΣ

Αριθμ. Πιστοπ.: - 621 -

ΑΝΤΙΓΡΑΦΟ ΜΕΤΑΠΤΥΧΙΑΚΟΥ ΔΙΠΛΩΜΑΤΟΣ ΕΙΔΙΚΕΥΣΗΣ

ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ :

Η ΜΗΛΙΩΤΟΥ ΑΝΔΡΟΥΛΛΑ του ΝΙΚΟΛΑΟΥ

Τόπος γέννησης : ΣΤΡΟΒΟΛΟΣ ΚΥΠΡΟΣ

αφού επέτυχε σε όλες τις εκ του νόμου προβλεπόμενες εξετάσεις

κρίθηκε άξια του Μεταπτυχιακού Διπλώματος Ειδίκευσης

Μεταπτυχιακό Δίπλωμα Ειδίκευσης στη Φαρμακευτική

με Ειδίκευση ΦΑΡΜΑΚΕΥΤΙΚΗ ΒΙΟΤΕΧΝΟΛΟΓΙΑ-ΜΟΡΙΑΚΗ ΔΙΑΓΝΩΣΤΙΚΗ

στις 12/07/2016 (12 Ιουλίου 2016)

με βαθμό 8,51 (ΟΚΤΩ ΚΑΙ ΠΕΝΗΝΤΑ ΕΝΑ ΕΚΑΤΟΣΤΑ) "ΑΡΙΣΤΑ"

Το πιστοποιητικό αυτό χορηγείται για χρήση στην Ελλάδα ή στο εξωτερικό και υπογράφεται από την Προϊσταμένη/τον Προϊστάμενο της Γραμματείας του Τμήματος, σύμφωνα με την υπ' αριθμ. 17992/29.01.2015 Πρυτανική Απόφαση (ΦΕΚ 334/10.03.2015, τ.Β').

ΘΕΣΣΑΛΟΝΙΚΗ, 12/7/2016
Με εντολή του Πρύτανη
ΜΕ ΕΝΤΟΛΗ ΠΡΥΤΑΝΗ
Η ΠΡΟΙΣΤΑΜΕΝΗ
ΤΗΣ ΓΡΑΜΜΑΤΕΙΑΣ ΤΟΥ ΤΜΗΜΑΤΟΣ

ΚΩΝΣΤΑΝΤΙΑ ΣΥΜΕΩΝΙΔΟΥ

Βαθμολογική Κλίμακα Επιτυχίας

α) 6,00 - 6,49	Καλώς
β) 6,50 - 8,49	Λίαν Καλώς
γ) 8,50 - 10	Άριστα

Το παρόν αποτελεί αντίγραφο του πρωτότυπου πτυχίου στη νεοελληνική

http://www.pharm.auth.gr Α.Π.Θ., 54124 Τηλ.: +30 2310997613 Fax: +30 2310997612 e-mail: info@pharm.auth.gr.

ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΙΑΣ
ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΒΙΟΧΗΜΕΙΑΣ & ΒΙΟΤΕΧΝΟΛΟΓΙΑΣ

Αρ. πρωτ.: 159

Λάρισα, 20-2-2017

Β Ε Β Α Ι Ω Σ Η

Βεβαιώνεται ότι η κ. **Μηλιώτου Ανδρούλλα** του Νικολάου, εισήχθη στο Τμήμα Βιοχημείας και Βιοτεχνολογίας του Πανεπιστημίου Θεσσαλίας κατά το ακαδημαϊκό έτος 2008-2009 και ορκίστηκε πτυχιούχος στις 20/3/2013. Ο βαθμός του πτυχίου της είναι 7,66 (επτά και εξήντα έξι εκατοστά).

Η κ. **Μηλιώτου Ανδρούλλα** αποφοίτησε:

α) με βαθμολογική σειρά κατάταξης 2η μεταξύ των 12 φοιτητών που ορκίστηκαν στην ορκωμοσία της 20ης Μαρτίου 2013 και

β) με βαθμολογική σειρά κατάταξης 5η μεταξύ των 43 φοιτητών που ορκίστηκαν κατά το ακαδημαϊκό έτος 2012-2013.

Η Γραμματέας του Τμήματος

Δήμητρα Κανδυλάρη

ΒΙΟΠΟΛΙΣ, ΜΕΖΟΥΡΛΟ, ΤΚ 415 00 ΛΑΡΙΣΑ
ΤΗΛ.: 2410 565271-4, FAX: 2410 565290
www.bio.uth.gr. E-mail: g-bio@bio.uth.gr

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΠΑΝΕΠΙΣΤΗΜΙΟΝ ΘΕΣΣΑΛΙΑΣ

ΠΡΥΤΑΝΕΥΟΝΤΟΣ
ΕΝ ΤΩ| ΕΝ ΒΟΛΩ| ΠΑΝΕΠΙΣΤΗΜΙΩ| ΘΕΣΣΑΛΙΑΣ

ΚΩΝΣΤΑΝΤΙΝΟΥ ΙΩΑΝΝΟΥ ΓΟΥΡΓΟΥΛΙΑΝΗ

ΚΑΘΗΓΗΤΟΥ ΤΟΥ ΤΜΗΜΑΤΟΣ ΙΑΤΡΙΚΗΣ

ΔΗΜΗΤΡΙΟΣ ΔΗΜΟΥ ΛΕΩΝΙΔΑΣ

ΑΝΑΠΛΗΡΩΤΗΣ ΚΑΘΗΓΗΤΗΣ

ΕΠΙ ΔΕ ΤΟΥ ΠΑΡΟΝΤΟΣ

ΤΟΥ ΤΜΗΜΑΤΟΣ ΒΙΟΧΗΜΕΙΑΣ ΚΑΙ ΒΙΟΤΕΧΝΟΛΟΓΙΑΣ
ΤΗΣ ΣΧΟΛΗΣ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΠΡΟΕΔΡΟΣ

ΑΝΔΡΟΥΛΛΑΝ ΝΙΚΟΛΑΟΥ ΜΗΛΙΩΤΟΥ

ΕΚ ΣΤΡΟΒΟΛΟΥ ΚΥΠΡΟΥ ΟΡΜΩΜΕΝΗΝ
ΠΕΡΙ ΤΗΝ ΕΠΙΣΤΗΜΗΝ ΤΗΣ ΒΙΟΧΗΜΕΙΑΣ ΚΑΙ ΒΙΟΤΕΧΝΟΛΟΓΙΑΣ ΣΠΟΥΔΑΣΑΣΑΝ
ΜΕΤΑ ΔΕ ΑΚΡΙΒΗ ΔΟΚΙΜΑΣΙΑΝ ΑΞΙΩΘΕΙΣΑΝ ΤΟΥ ΒΑΘΜΟΥ

ΛΙΑΝ ΚΑΛΩΣ

ΑΠΟΦΑΣΕΙ ΟΜΟΘΥΜΩ|

ΤΟΥ ΤΜΗΜΑΤΟΣ

ΕΙΣ ΤΟΥΣ ΠΤΥΧΙΟΥΧΟΥΣ ΤΟΥ ΤΜΗΜΑΤΟΣ ΒΙΟΧΗΜΕΙΑΣ ΚΑΙ ΒΙΟΤΕΧΝΟΛΟΓΙΑΣ
ΑΝΕΔΕΙΞΕ ΚΑΙ ΠΑΝΤΑ ΤΑ ΤΩ| ΠΤΥΧΙΩ| ΤΟΥΤΩ|
ΑΝΗΚΟΝΤΑ ΠΡΟΝΟΜΙΑ

ΠΡΟΣΕΝΕΙΜΕΝ

ΕΤΕΙ ΔΙΣΧΙΛΙΟΣΤΩ| ΔΕΚΑΤΩ| ΤΡΙΤΩ| ΜΗΝΟΣ ΜΑΡΤΙΟΥ ΕΙΚΟΣΤΗ|

ΕΞΕΔΟΘΗ ΤΗ| 5ΗΣ ΑΠΡΙΛΙΟΥ 2013

Ο ΠΡΥΤΑΝΙΣ **Ο ΠΡΟΕΔΡΟΣ**

ΚΩΝΣΤΑΝΤΙΝΟΣ Ι. ΓΟΥΡΓΟΥΛΙΑΝΗΣ **ΔΗΜΗΤΡΙΟΣ Δ. ΛΕΩΝΙΔΑΣ**

Η ΓΡΑΜΜΑΤΕΥΣ

ΔΗΜΗΤΡΑ Χ. ΚΑΛΟΓΙΑΡΗ

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**OULAS**
Name:	**ANASTASIS**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PHD	2003	UNIVERSITY OF CRETE	POSTGRADUATE PROGRAM OF MOLECULAR BIOLOGY AND BIOMEDICINE	COMPUTATIONAL PREDICTION OF GENE CLASSIFIERS AND MIRNAS IN CANCER
MSC	2001	IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE	SCHOOL OF BIOLOGICAL SCIENCES	HOW THE FINANCIAL DEVELOPMENT AFFECTS THE ECONOMIC DEVELOPMENT-THE CASE OF EUROPEAN COUNTRIES
BSC	1998	UNIVERSITY OF SUSSEX	SCHOOL OF BIOLOGICAL SCIENCES	BSC IN MOLECULAR GENETICS IN BIOTECHNOLOGY

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
01/07/2016	2020	THE CYPRUS INSTITUTE OF NEUROLOGY AND GENETICS (CING)		RESEARCH FELLOW AT THE BIOINFORMATICS GROUP
01/01/2012	01/07/2016	INSTITUTE OF MARINE BIOLOGY, BIOTECHNOLOGY AND AQUACULTURES-HELLENIC CENTRE FOR MARINE RESEARCH		SENIOR RESEARCH
01/01/2011	31/12/2011	INSTITUTE OF MOLECULAR BIOLOGY, FOUNDATION OF RESEARCH AND TECHNOLOGY		POSTDOCTORAL AT THE RNA LABORATORY

Key ***refereed*** journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher/ Conference	Vol.	Pages
1	2020	PROTEOMIC ANALYSIS IN LUPUS MICE IDENTIFIES CORONIN-1A AS A POTENTIAL BIOMARKER FOR LUPUS NEPHRITIS	NICOLAOU O. SOKRATOUS K. MAKOWSKA Z. MORELL M. DE GROOF A. MONTIGNY P. HADJISAVVAS A. MICHAILIDOU K. SPYROU GM. DEMETRIOU C. ALARCON-RIQUELME ME PSARELLIS S.			

			KOUSIOS A. LAUWERYS B. KYRIAKOU K.			
2	2020	COMPARATIVE ANALYSIS OF AFFECTED AND UNAFFECTED AREAS OF SYSTEMIC SCLEROSIS SKIN BIOPSIES BY HIGH-THROUGHPUT PROTEOMIC APPROACHES	CHAIRTA P. NICOLAOU P. SOKRATOUS K. GALANT C. HOUSSIAU F. SPYROU GM. ALARCON-RIQUELME ME. LAUWERYS BR. CHRISTODOULOU K.			
3	2020	IDENTIFYING PATHWAY COMMUNITIES USING A DISEASE-RELATED MAP OF INTEGRATED INFORMATION	KARATZAS E. ZACHARIOU M. BOURDAKOU MM. MINADAKIS G. KOLIOS G. DELIS A. SPYROU GM.			
4	2019	IN SILICO IDENTIFICATION OF ANTIMICROBIAL PEPTIDES IN THE PROTEOMES OF GOAT AND SHEEP MILK AND FETA CHEESE.	TOMAZOU M. ANAGNOSTOPOULOS AK. TSANGARIS GT. SPYROU GM.			
5	2019	VALORIZATION OF AGRICULTURAL WASTES COULD IMPROVE SOIL FERTILITY AND MITIGATE SOIL DIRECT N20 SMISSIONS	I ANASTOPOULOS. OMIROU M. STEPHANOU C. VASILIADES MA. EFSTATHIOU AM. IOANNIDES IM.			
6	2019	46,XY COMPLETE GONADAL DYSGENESIS IN A FAMILIAL CASE WITH A RARE MUTATION IN THE DESERT HEDGEHOG (DHH)GENE	NEOCLEOUS V. FANIS P. CINARLI F. KOKOTSIS V. TOUMBA M. SPYROU GM. PHYLACTOU LA. SKORDIS N.			
7	2019	SELECTING VARIANTS OF UNKNOWN SIGNIFICANCE	MINADAKIS G. ZACHARIOU M.			

		THROUGH NETWORK-BASED GENE-ASSOCIATION SIGNIFICANTLY IMPROVES RISK PREDICTION FOR DISEASE-CONTROL COHORT.	SPYROU GM.			
8	2018	DCL-SUPPRESSED NICOTIANA BENTHAMIANA PLANTS:VALUABLE TOOLS IN RESEARCH AND BIOTECHNOLOGY	KATSAROU K. MITTA E. BARDANI E. DADAMI E. KALANTIDIS K.			
9	2018	REVEALING CLUSTERS OF CONNECTED PATHWAYS THROUGH MULTISOURCE DATA INTEGRATION IN HUNTINGTON'S DISEASE AND SPASTIC ATAXIA	KAKOURI A. CHRISTODOULOU C. ZACHARIOU M. MINADAKIS G. DEMETRIOU C. VOTSI C. PAPANICOLAOU-ZAMBA E. KYPROULA C. SPYROU G.			
10	2018	PATHWAYCONNECTOR: FINDING COMPLEMENTARY PATHWAYS TO ENHANCE FUNCTIONAL ANALYSIS	ZACHARIOU M. MINADAKIS G. SPYROU GM.			

ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ

ΤΟ ΤΜΗΜΑ ΒΙΟΛΟΓΙΑΣ

ΤΗΣ ΣΧΟΛΗΣ ΘΕΤΙΚΩΝ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΩΝ ΕΠΙΣΤΗΜΩΝ

ΑΠΟΝΕΜΕΙ

ΤΟ

ΔΙΔΑΚΤΟΡΙΚΟ ΔΙΠΛΩΜΑ

ΤΗΣ ΒΙΟΛΟΓΙΑΣ

ΜΕ ΤΑ ΔΙΚΑΙΩΜΑΤΑ ΚΑΙ ΤΙΣ ΥΠΟΧΡΕΩΣΕΙΣ ΠΟΥ ΤΟ ΣΥΝΟΔΕΥΟΥΝ

ΣΤΟΝ **ΑΝΑΣΤΑΣΙΟ ΟΥΛΑ** ΤΟΥ **ΝΕΟΦΥΤΟΥ**

ΑΠΟ ΤΗΝ ΑΘΗΝΑ ΤΟΥ ΝΟΜΟΥ ΑΤΤΙΚΗΣ

Ο ΟΠΟΙΟΣ ΑΝΤΑΠΟΚΡΙΘΗΚΕ ΜΕ ΕΠΙΤΥΧΙΑ ΣΤΙΣ ΑΠΑΙΤΗΣΕΙΣ
ΤΟΥ ΚΑΝΟΝΙΣΜΟΥ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ ΤΟΥ ΤΜΗΜΑΤΟΣ
ΣΕ Ο,ΤΙ ΑΦΟΡΑ ΤΗΝ ΕΚΠΟΝΗΣΗ
ΔΙΔΑΚΤΟΡΙΚΗΣ ΔΙΑΤΡΙΒΗΣ

ΗΡΑΚΛΕΙΟ 5 ΙΟΥΝΙΟΥ 2009

Ο ΠΡΥΤΑΝΗΣ

ΙΩΑΝΝΗΣ ΠΑΛΛΗΚΑΡΗΣ

Ο ΠΡΟΕΔΡΟΣ ΤΟΥ ΤΜΗΜΑΤΟΣ		Η ΓΡΑΜΜΑΤΕΑΣ ΤΟΥ ΤΜΗΜΑΤΟΣ
ΧΡΗΣΤΟΣ ΛΟΥΗΣ	ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ ΤΜΗΜΑ ΒΙΟΛΟΓΙΑΣ	ΜΑΡΙΑ ΣΜΥΡΝΑΚΗ

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**PANAYIOTOU**
Name:	**ELENA**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MASTER	2015	MEDITERRANEAN INSTITUTE OF MANAGEMENT	MBA IN BUSINESS ADMINISTRATION	THE FACTORS AFFECTING E-BANKING SERVICES IN BUSINESSES-THE CASE OF CYPRIOT ENTERPRISES
BSc	2013	UNIVERSITY OF CYPRUS	BSC IN ECONOMICS	HOW THE FINANCIAL DEVELOPMENT AFFECTS THE ECONOMIC DEVELOPMENT-THE CASE OF EUROPEAN COUNTRIES

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2016		HIGHER EDUCATION INSTITUTIONS		TEACHING BANKING,ACCOUNTING AND FINANCE
2013	2016			ACCOUNTANT FOR VARIOUS COMPANIES IN CYPRUS

Key ***refereed*** journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	**Year**	**Title**	**Other authors**	**Journal and Publisher/ Conference**	**Vol.**	**Pages**
1	2019	ANATOMY OF CYBERWAR: STRATEGIES, METHODS, LEGAL ASPECTS AND NEW WEAPON	CHARALAMBIDES Y.	AS A MEMBER OF THE EDITORIAL TEAM		
2	2018	THE LANGUAGE OF POWER , INFORMATION UNDER THA SHADOW OF DIGITAL & POLITICAL MARKETING	CHARALAMBIDES Y.	AS A MEMBER OF THE EDITORIAL TEAM		
3	2018	CYBER SECURITY	CHARALAMBIDES Y.	AS A MEMBER OF THE EDITORIAL TEAM		

Πανεπιστήμιο Κύπρου

Η ΣΥΓΚΛΗΤΟΣ του Πανεπιστημίου Κύπρου, αναγνωρίζοντας την επιτυχή εκπλήρωση όλων των αναγκαίων ακαδημαϊκών απαιτήσεων και ύστερα από εισήγηση της ΣΧΟΛΗΣ ΟΙΚΟΝΟΜΙΚΩΝ ΕΠΙΣΤΗΜΩΝ ΚΑΙ ΔΙΟΙΚΗΣΗΣ,
απονέμει στην

Έλενα Σ. Παναγιώτου

σήμερα, Δεκαεννέα Ιουνίου Δύο Χιλιάδες Δεκατρία, το

ΠΤΥΧΙΟ ΟΙΚΟΝΟΜΙΚΩΝ

με βαθμό

Καλώς

και κατοχυρώνει όλα τα δικαιώματα και προνόμια που συνεπάγεται ο τίτλος αυτός.
Το παρόν δίπλωμα επικυρώνεται με τη σφραγίδα του Πανεπιστημίου Κύπρου
και τις ακόλουθες υπογραφές

ΠΡΥΤΑΝΗΣ

ΠΡΟΕΔΡΟΣ ΣΥΜΒΟΥΛΙΟΥ

ΚΟΣΜΗΤΩΡ ΣΧΟΛΗΣ ΟΙΚΟΝΟΜΙΚΩΝ ΕΠΙΣΤΗΜΩΝ ΚΑΙ ΔΙΟΙΚΗΣΗΣ

ΠΡΟΕΔΡΟΣ ΤΜΗΜΑΤΟΣ ΟΙΚΟΝΟΜΙΚΩΝ

MEDITERRANEAN INSTITUTE OF MANAGEMENT

REPUBLIC OF CYPRUS

MINISTRY OF LABOUR, WELFARE AND SOCIAL INSURANCE

THE MEDITERRANEAN INSTITUTE OF MANAGEMENT

hereby confers upon

ELENA PANAYIOTOU

the degree of

Master in Business Administration

with all the rights and privileges pertaining thereto.
This Degree is sealed and signed by

Andreas Assiotis
Permanent Secretary Ministry of Labour, Welfare and Social Insurance

MEDITERRANEAN INSTITUTE OF MANAGEMENT * M.I.M. *

Dinos Kathijotis
Director Mediterranean Institute of Management

Akis Nicolaides
Manager Mediterranean Institute of Management

13 November 2015, Nicosia - Cyprus

Degree No.: PG00809

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES College
Surname:	Papadopoulos
Name:	Elias
Rank:	
Program of Study:	Medical Representatives, Pharmacy Technicians, Beauty Therapy Studies
Scientific Domain: *	Medical Doctor Specialist in Paediatric Surgery

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
Paediatric Surgeon Specialty	2002	Aristotelion Panepistimio Thessalonikis	Medicine	
Doctor of Medicine	1994	Aristotelion Panepistimio Thessalonikis	Medicine	
Apolytirion	1988	Pancyprian Gymnasium		

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
1996	Today	KES College	Lefkosia	Lecturer

Συμμετ Αρ 4

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ
ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΙΑΤΡΙΚΗΣ

Αρ.Πιστοπ.: 93/00087

Γραφείο : Γραμματεία
Τηλ. : 999267/9283
FAX : 999293

Π Ι Σ Τ Ο Π Ο Ι Η Τ Ι Κ Ο Α Π Ο Φ Ο Ι Τ Η Σ Ε Ω Σ

Η Γραμματεία του Τμήματος Ιατρικής πιστοποιεί :

Ο ΠΑΠΑΔΟΠΟΥΛΟΣ ΗΛΙΑΣ

του ΜΑΤΘΑΙΟΥ και της ΕΙΡΗΝΗΣ

από : ΛΕΥΚΩΣΙΑ Νομού ΚΥΠΡΟΣ

ολοκλήρωσε, ως φοιτητής, το Πρόγραμμα Σπουδών του Τμήματος Ιατρικής, συμμετέχοντας επιτυχώς και στις πτυχιακές εξετάσεις.

Ορκίστηκε και έλαβε το πτυχίο της Ιατρικής στις :

6 Ιουλίου 1994 (χίλια εννιακόσια ενενήντα τέσσερα)

Βαθμός πτυχίου : **"ΛΙΑΝ ΚΑΛΩΣ"** (7) ΕΠΤΑ – (7.30)

Το παρόν χορηγείται, ως αντίγραφο πτυχίου, για κάθε νόμιμη χρήση.

Θεσσαλονίκη, 14 Ιουλίου 1994

Η Γραμματέας του Τμήματος

Ι. Β. ΜΠΟΥΚΛΑ–ΠΑΠΑΔΗΜΗΤΡΙΟΥ

ΔΡΧ. 100
Χ.Ο.Γ.Α. κλπ.

ΠΙΣΤΟΠΟΙΩ ΟΤΙ ΤΟ ΠΑΡΟΝ
ΕΙΝΑΙ ΓΝΗΣΙΟ ΑΝΤΙΓΡΑΦΟ
ΤΟΥ ΠΡΩΤΟΤΥΠΟΥ

ΜΑΚΑΡΙΟΥ ★ ΚΟΙΝΟΤΑΡΧ

Αρ.Διπλ.Είσπ.: 5224
Δραχμές : 2200

ΣΗΜΕΙΩΣΗ
Η Ιατρική Σχολή του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης με το Ν. 1268/82 και το Π.Δ. 130/83 (Φ.Ε.Κ. Α' 57/3-5-1983) εντάχθηκε στη Σχολή Επιστημών Υγείας ως Τμήμα Ιατρικής.

Συνημμένο Αρ 5

ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ

03071

ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΕΓΓΡΑΦΗΣ ΔΥΝΑΜΕΙ ΤΟΥ ΠΕΡΙ ΕΓΓΡΑΦΗΣ ΙΑΤΡΩΝ ΝΟΜΟΥ, ΚΕΦ. 250

Διά του παρόντος πιστοποιείται

ότι ο/η Ηλίας Παπαδόπουλος του Μαρκου

εκ Λευκωσία *έχει ικανοποιήσει το Ιατρικό Συμβούλιο της Κύπρου ότι δικαιούται να εγγραφεί ως ιατρός στην Κύπρο και έχει δεόντως καταχωρηθεί στο Μητρώο Ιατρών που τηρείται δυνάμει των προνοιών του άρθρου 5 του περί Εγγραφής Ιατρών Νόμου, Κεφ. 250, και δικαιούται να ασκεί ιατρική εντός της Δημοκρατίας της Κύπρου.*

ΠΙΣΤΟΠΟΙΩ ΟΤΙ ΤΟ ΠΑΡΟΝ ΕΙΝΑΙ ΓΝΗΣΙΟ ΑΝΤΙΓΡΑΦΟ ΤΟΥ ΠΡΩΤΟΤΥΠΟΥ

ΥΠΟΥΡΓΕΙΟ ... ΚΥΠΡΟΥ

Έφορος Ιατρικού Συμβουλίου

Ημερ. 3/3/99

326

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΝΟΜΑΡΧΙΑΚΗ ΑΥΤ/ΣΗ ΘΕΣ/ΝΙΚΗΣ

Δ/ΝΣΗ ΔΗΜΟΣΙΑΣ ΥΓΕΙΑΣ ΚΑΙ ΥΓΙΕΙΝΗΣ

ΑΡΙΘ. ΠΡΩΤ. Γ2 / 16184 14/6/02

ΤΙΤΛΟΣ ΙΑΤΡΙΚΗΣ ΕΙΔΙΚΟΤΗΤΑΣ

Στον Ιατρό *Παπαδόπουλο Ηλία του Μιχαήλ* που τελείωσε τη μεταπτυχιακή άσκηση σύμφωνα με το Νόμο και πέτυχε στις σχετικές εξετάσεις απονέμεται ο τίτλος της ιατρικής ειδικότητας της **ΧΕΙΡΟΥΡΓΙΚΗΣ ΠΑΙΔΩΝ**

Θεσσαλονίκη, 14 Ιουνίου 2002

ΠΙΣΤΟΠΟΙΩ ΟΤΙ ΤΟ ΠΑΡΟΝ
ΕΙΝΑΙ ΓΝΗΣΙΟ ΑΝΤΙΓΡΑΦΟ
ΤΟΥ ΠΡΩΤΟΤΥΠΟΥ

Ο Διευθυντής

Δ. [illegible]Σ Π. ΑΧΛΑΔΑΣ
Ειδικός Παιδίατρος
Ειδικός Κοινωνικής Ιατρικής
Διδάκτωρ Πανεπιστημίου Θεσ/νίκης

ΑΡΙΘ. ΑΔΕΙΑΣ Γ2 / 16184 14/6/02

ΑΠΟ ΤΟ ΕΘΝΙΚΟ ΤΥΠΟΓΡΑΦΕΙΟ

Συνημμένο Αρ 6

Αρ. Φακ. 51/94

ΥΠΟΥΡΓΕΙΟ ΥΓΕΙΑΣ
ΤΜΗΜΑ ΙΑΤΡΙΚΩΝ ΥΠΗΡΕΣΙΩΝ ΚΑΙ
ΥΠΗΡΕΣΙΩΝ ΔΗΜΟΣΙΑΣ ΥΓΕΙΑΣ
ΛΕΥΚΩΣΙΑ

13 Μαΐου 2002

ΠΙΣΤΟΠΟΙΗΤΙΚΟ

ΜΕ ΤΟ ΠΑΡΟΝ ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ ΤΟ ΙΑΤΡΙΚΟ ΣΥΜΒΟΥΛΙΟ ΚΥΠΡΟΥ

ΑΝΑΓΝΩΡΙΖΕΙ ΤΟΝ/~~ΤΗΝ~~ ΙΑΤΡΟ Ηλία Παπαδόπουλο

.....

ΑΠΟ Γερμανία

ΩΣ ΕΙΔΙΚΟ στην Παιδοχειρουργική

ΣΥΜΦΩΝΑ ΜΕ ΤΟΝ ΚΑΝΟΝΙΣΜΟ 3 ΤΩΝ ΠΕΡΙ ΙΑΤΡΩΝ (ΕΙΔΙΚΑ ΠΡΟΣΟΝΤΑ)
ΚΑΝΟΝΙΣΜΩΝ 1986 ΤΟΥ ΠΕΡΙ ΕΓΓΡΑΦΗΣ ΙΑΤΡΩΝ ΝΟΜΟΥ.

ΠΙΣΤΟΠΟΙΩ ΟΤΙ ΤΟ ΠΑΡΟΝ
ΕΙΝΑΙ ΓΝΗΣΙΟ ΑΝΤΙΓΡΑΦΟ
ΤΟΥ ΠΡΩΤΟΤΥΠΟΥ

ΑΠΟΣΤΟΛΟΥ ΒΑΡΝΑΒΑ & ΑΓΙΟΥ ΜΑΡΑΘΙΟΥ & ΚΟΜΟΤΑΡΧΗΣ

ΥΠΟΥΡΓΕΙΟΝ ΥΓΕΙΑΣ ΚΥΠΡΟΥ

ΠΡΟΕΔΡΟΣ
ΙΑΤΡΙΚΟΥ ΣΥΜΒΟΥΛΙΟΥ ΚΥΠΡΟΥ

Συνημμένο Αρ 7

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**SAVVIDOU**
Name:	**KATERINA**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MBA	2018	MEDITERRANEAN INSTITUTE OF MANAGEMENT	BUSINESS	MASTER IN BUSINESS ADMINISTRATION
BSc	2007	UNIVERSITY OF BRIGHTON	PHARMACY AND BIOMOLECULAR SCIENCES	MASTER OF PHARMACY

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2019	2020	PHARMACEUTICAL SERVICES, MINISTRY OF HEALTH	NICOSIA	PHARMACIST,DRUG REGULATORY SECTOR (MRP/DCP GROUP)
2017	2019	PHARMACEUTICAL SERVICES, MINISTRY OF HEALTH	NICOSIA	PHARMACIST,DRUG REGULATORY SECTOR (NATIONAL GROUP)
2016	2017	AVVA PHARMACEUTICALS LTD	LIMASSOL	RECULATORY AFFAIRS SCIENTIST

MEDITERRANEAN INSTITUTE OF MANAGEMENT
TRUE RIGINAL
Signature: ...
Date: 22/11/2019

MEDITERRANEAN INSTITUTE OF MANAGEMENT

REPUBLIC OF CYPRUS

MINISTRY OF LABOUR, WELFARE AND SOCIAL INSURANCE

THE MEDITERRANEAN INSTITUTE OF MANAGEMENT

hereby confers upon

Katerina Savvidou

the degree of

Master in Business Administration

with all the rights and privileges pertaining thereto.
This Degree is sealed and signed by

Christos Malikkides
Permanent Secretary Ministry of Labour, Welfare and Social Insurance

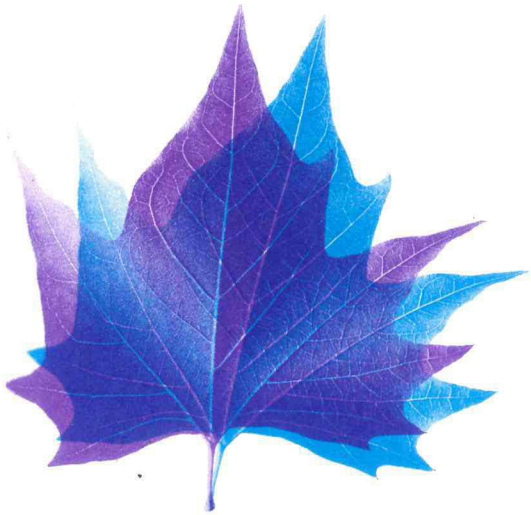
Antonis Aniftos
Ag. Director Mediterranean Institute of Management

Kyprianos Nicolaides
Manager Mediterranean Institute of Management

22 November 2019, Nicosia - Cyprus

Degree No.: PG00884

University of Brighton



Katerina Savvidou

has been awarded the

Degree of Master of Pharmacy

with Second Class Honours (Upper Division)

4 July 2011

The University of Brighton

Chairman of the Board of Governors

Vice-Chancellor

ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΕΓΓΡΑΦΗΣ ΦΑΡΜΑΚΟΠΟΙΟΥ

Με το παρόν πιστοποιείται ότι:

Η ΚΑΤΕΡΙΝΑ ΣΑΒΒΙΔΟΥ

με αριθμό ταυτότητας 942941 είναι εγγεγραμμένη στο Μητρώο Φαρμακοποιών της Κυπριακής Δημοκρατίας σύμφωνα με τις διατάξεις του Μέρους ΙΙ του περί Φαρμακευτικής και Δηλητηρίων Νόμου (Κεφ. 254), στον οποίο υιοθετούνται οι διατάξεις της Οδηγίας 2005/36/ΕΚ.

Αριθμός Μητρώου: **1495**

Ημερομηνία Έγγραφής: **25 Ιουλίου 2012**

ΦΑΡΜΑΚΕΥΤΙΚΕΣ ΥΠΗΡΕΣΙΕΣ
ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟΝ ΥΓΕΙΑΣ

Δρ Χρίστος Κ. Πέτρου
Έφορος Συμβουλίου Φαρμακευτικής

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**SIAFAKA**
Name:	**PANORAIA**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD	2012	ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE	SCHOOL OF CHEMISTRY, FACULTY OF SCIENCES	PREPARATION OF NEW POLYMERIC CARRIERS, VIA ELECTROSPINNING AND PHASE SEPARATION METHODS, IN ORDER TO BE USED AS DRUG DELIVERY SYSTEMS
MSc	2010	ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE	SCHOOL OF CHEMISTRY, FACULTY OF SCIENCES	CHEMISTRY WITH EMPHASIS IN CHEMISTRY AND TECHNOLOGY OF POLYMERS
BSc	2005	ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE	SCHOOL OF CHEMISTRY, FACULTY OF SCIENCES	CHEMISTRY

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2019	2020	PHARMACEUTICAL TECHNOLOGY DEPARTMENT	UNIVERSITY OF HEALTH SCIENCES, ISTANBUL, TURKEY	VISITING POST-DOC RESEARCHER
2016	2019	PHARMACEUTICAL TECHNOLOGY DEPARTMENT	MEDIPOL UNIVERSITY, ISTANBUL,TURKEY	VISITING POST-DOC RESEARCHER
2013	2015	RESEARCH PROGRAM FINANCED BY NSRF2007-2013		RESEARCHER

Key ***refereed*** journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher/ Conference	Vol.	Pages
1	2020	TRANSDERMAL DRUG DELIVERY SYSTEMS AND THEIR POTENTIAL IN ALZHEIMER'S DISEASE MANAGEMENT. CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS	OZCAN BULBUL E. MUTLU G. OKUR M.E. KARANTAS I.D. USTUNDAG OKUR N.			
2	2020	LIPID NANOPARTICLES AS POTENT CARRIERS OF ORALLY ADMINISTRATED DRUGS. CURRENT PHARMACEUTICAL BIOTECHNOLOGY	USTUNDAG OKUR N. HOMAN GOKSE E.			
3	2020	PROMISING POLYMERIC DRUG CARRIERS FOR LOCAL DELIVERY;THE CASE OF IN SITU GELS. CURRENT DRUG DELIVERY	USTUNDAG OKUR N. PINAR YAGCILAR A.			

4	2020	DYSLIPIDEMIA MANAGEMENT IN 2020: AN UPDATE ON DIAGNOSIS AND THERAPEUTIC PERSPECTIVES. ENDOCRINE, METABOLIC & IMMUNE DISORDERS-DRUG TARGETS	KARANTAS I.D. OKUR M.E. USTUNDAG OKUR N.			
5	2020	SCIZOPHRENIA; A REVIEW ON PROMISING DRUG DELIVERY SYSTEM. CURRENT PHARMACEUTICAL DESIGN	BULBUL E.O. KARANTAS I.D. OKUR M.E. OKUR USTUNDAG N.			

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)

Ref. Number	Date	Title	Funded by	Project Role*
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1				
2				

3				
4				
5				

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	**Date**	**Title**	**Awarded by:**
1	2018	OUTSTANDING REVIEWER CERTIFICATION	INTERNATIONAL JOURNAL OF PHARMACEUTICS
2	2016	BEST PH.D STUDENT AT THE DEPARTMENT OF CHEMISTRY	ARISTOTLE UNIVERSITY THESSALONIKI
3	2014	BEST POSTER PRESENTATION	THERMA LARISSA
4			
5			
6			
7			
8			
9			
10			

Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	**Date**	**Title**	**Key Activities:**

1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

HELLENIC REPUBLIC
ARISTOTLE UNIVERSITY OF THESSALONIKI
FACULTY OF SCIENCES
SCHOOL OF CHEMISTRY

Certif. No.: 1250

COPY OF DEGREE

IT IS HEREBY CERTIFIED THAT:

PANORAIA SIAFAKA (father's name: IOANNIS)

Place of Birth: ATHENS (GR)

having successfully passed the expected courses and accumulated the necessary course credits (ECTS), is deemed worthy of the degree of the School of

CHEMISTRY
of the FACULTY OF SCIENCES

with a mark of **6.84 (six and eighty-four hundredths) "Very good"**

Graduated on **25.11.2010 (25 November 2010)**

This certificate has been issued for use in Greece or abroad and has been signed by the Head of Registrar Services of the School, in accordance with Decision No. 17992/29.01.2015 of the Rector (Government Gazette 334/10.03.2015, Series II).

Thessaloniki, 27.07.2017
By order of the Rector

Stamp:
ARISTOTLE UNIVERSITY OF THESSALONIKI
FACULTY OF SCIENCES
SCHOOL OF CHEMISTRY

The Head of Registrar Services of the School

[*signature / seal: Aristotle University of Thessaloniki*]

LYDIA STAVRAKAKI

Grading scale

a)	5.00-6.49	Good
b)	6.50-8.49	Very Good
c)	8.50-10	Excellent

This is a copy of the original degree in Modern Greek.

http://www.chem.auth.gr/ • AUTH • GR-54124 • Tel.: +30 2310997640 • Fax: +30 2310997642 • e-mail: info@chem.auth.gr

Προκό
Γ Κω
Τ 2332
Α.Φ.Μ. 0791

APOSTILLE

(The Hague Convention of October 5, 1961)

1. Country: GREECE
   This public document
2. has been signed by LYDIA STAVRAKAKI
3. acting in the capacity of HEAD OF THE OFFICE
4. bears the seal/stamp of ARISTOTLE UNIVERSITY OF THESSALONIKI
   CERTIFIED
5. at THESSALONIKI
6. the 13.09.2019
7. by THE DECENTRALIZED ADMINISTRATION OF MACEDONIA-THRACE
8. No.: 16632
9. Seal / stamp
   HELLENIC REPUBLIC
   DECENTRALIZED ADMINISTRATION
   OF MACEDONIA-THRACE
10. Signature
    (signature)
    KONSTANTINOS PAVLIDIS

This is to certify according to art. 36 of Law 4194/2013
that the present document in **English**
is the exact and accurate translation
of the attached document in **Greek**
Naoussa (GR), 27 September 2019

The certifying Lawyer

Προκόπης Αν. Μπίλης
Δικηγόρος
Γ. Κωνσ/νίδη 7 • Νάουσα
Τ. 2332021921 Μ. 6932654894
e-mail: bilis7@hol.gr
Α.Φ.Μ. 079160877 • Δ.Ο.Υ. ΒΕΡΟΙΑΣ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ
ΣΧΟΛΗ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ
ΤΜΗΜΑ ΧΗΜΕΙΑΣ

Αριθμ. Πιστοπ. : 1250

ΑΝΤΙΓΡΑΦΟ ΠΤΥΧΙΟΥ

ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ :

Η ΣΙΑΦΑΚΑ ΠΑΝΩΡΑΙΑ του ΙΩΑΝΝΗ

Τόπος γέννησης : ΑΘΗΝΑ

αφού επέτυχε στα προβλεπόμενα μαθήματα και συγκέντρωσε τον απαιτούμενο αριθμό πιστωτικών μονάδων ECTS, κρίθηκε άξια του πτυχίου του Τμήματος

ΧΗΜΕΙΑΣ

της ΣΧΟΛΗΣ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ

με βαθμό **6,84 (ΕΞΙ ΚΑΙ ΟΓΔΟΝΤΑ ΤΕΣΣΕΡΑ ΕΚΑΤΟΣΤΑ) "ΛΙΑΝ ΚΑΛΩΣ"**

Ορκίστηκε στις **25/11/2010 (25 Νοεμβρίου 2010)**

Το πιστοποιητικό αυτό χορηγείται για χρήση στην Ελλάδα ή στο εξωτερικό και υπογράφεται από την Προϊσταμένη της Γραμματείας του Τμήματος, σύμφωνα με την υπ' αριθμ. 17992/29.01.2015 Πρυτανική Απόφαση (ΦΕΚ 334/10.03.2015, τ.Β').

Θεσσαλονίκη, 27/7/2017
Με εντολή του Πρύτανη
Η Προϊσταμένη
της Γραμματείας του Τμήματος

ΛΥΔΙΑ Ν.-Π. ΣΤΑΥΡΑΚΑΚΗ

Βαθμολογική Κλίμακα Επιτυχίας

α) 5,00 - 6,49	Καλώς
β) 6,50 - 8,49	Λίαν Καλώς
γ) 8,50 - 10	Άριστα

Το παρόν αποτελεί αντίγραφο του πρωτότυπου πτυχίου στη νεοελληνική

Apostille-Επισημείωση

Convention de la Haye du 5 Octobre (1961)
Σύμβαση της Χάγης της 5 Οκτωβρίου (1961)

1. Χώρα: ΕΛΛΑΔΑ
   Pays: GRÉCE
   Το παρόν δημόσιο έγγραφο
   Le présent acte public
2. έχει υπογραφεί από
   a été signé par
   ΣΤΑΥΡΑΚΑΚΗ ΛΥΔΙΑ
3. που ενήργησε με την ιδιότητα
   agissant en qualité de
   ΠΡΟΙΣΤΑΜΕΝΗ
4. φέρει τη σφραγίδα/επίσημα
   est revétu du sceau/timbre de
   ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

Η βεβαίωση χορηγείται/attesté

5. (τόπος) ΘΕΣ/ΝΙΚΗ a
6. (ημερομηνία) 13/9/2019 le
7. από την ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ
   par ΜΑΚΕΔΟΝΙΑΣ – ΘΡΑΚΗΣ
8. με αριθμό / 16632
   sous No.
9. Σφραγίδα/επίσημα
   Sceau/timbre
10. Υπογραφή
    Signature

ΔΗΜΟΚΡΑΤΙΑ - ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ - ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ ΜΑΚΕΔΟΝΙΑΣ-ΘΡΑΚΗΣ

ΠΑΥΛΙΔΗΣ ΚΩΝΣΤΑΝΤΙΝΟΣ

TRANSLATED FROM THE GREEK LANGUAGE

HELLENIC REPUBLIC

ARISTOTLE UNIVERSITY OF THESSALONIKI

FACULTY OF SCIENCES

SCHOOL OF CHEMISTRY

POSTGRADUATE STUDY PROGRAMME OF THE SCHOOL OF CHEMISTRY

Certificate No: 268

DUPLICATE OF POSTGRADUATE DIPLOMA OF SPECIALISATION (MSc)

IT IS HEREBY CERTIFIED THAT:

PANORAIA SIAFAKA (father's name: IOANNIS)

Place of Birth: ATHENS, ATTICA (GR)

having passed all the examinations required by law

was admitted to the

Postgraduate Diploma of Specialisation in Chemistry (MSc)

Stream: POLYMER CHEMISTRY AND TECHNOLOGY

on 20.6.2012 (20 June 2012)

with the grade of 9.34 (NINE POINT THIRTY-FOUR) – EXCELLENT

This certificate has been issued for use in Greece or abroad and has been signed by the Head of Registrar Services of the School, in accordance with Decision No. 17992/29.01.2015 of the Rector (Government Gazette 334/10.03.2015, Series II).

Thessaloniki, 26.07.2017
By order of the Rector

THE HEAD OF REGISTRAR SERVICES OF THE SCHOOL

[signature / seal: Aristotle University of Thessaloniki]

LYDIA STAVRAKAKI

Grade scale
a) 6.00 – 6.49 Good
b) 6.50 – 8.49 Very Good
c) 8.50 – 10 Excellent
This is a copy of the original degree in Modern Greek.

http://www.chem.auth.gr/ • AUTH • SCHOOL OF CHEMISTRY • GR-54124 • Tel.: +30 2310997680 • Fax: +30 2310997642 • e-mail: info@chem.auth.gr

TRANSLATED FROM THE GREEK LANGUAGE

APOSTILLE

(The Hague Convention of October 5, 1961)

1. Country: GREECE

   This public document

2. has been signed by LYDIA STAVRAKAKI

3. acting in the capacity of HEAD OF THE OFFICE

4. bears the seal/stamp of ARISTOTLE UNIVERSITY OF THESSALONIKI

CERTIFIED

5. at THESSALONIKI 6. the 13.09.2019

7. by THE DECENTRALIZED ADMINISTRATION OF MACEDONIA-THRACE

8. No.: 16633

9. Seal / stamp
HELLENIC REPUBLIC
DECENTRALIZED ADMINISTRATION
OF MACEDONIA-THRACE

10. Signature
(signature)
KONSTANTINOS PAVLIDIS

This is to certify according to art. 36 of Law 4194/2013
that the present document in **English**
is the exact and accurate translation
of the attached document in **Greek**
Naoussa (GR), 27 September 2019

The certifying Lawyer

Προκόπης Αν. Μπίλης
Δικηγόρος
Γ. Κων/νίδη 7 • Νάουσα
Τ. 2332021921 • Μ. 6932654694
e-mail: billis7@hol.gr
Α.Φ.Μ. 079160877 • Δ.Ο.Υ. ΒΕΡΟΙΑΣ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΧΟΛΗ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ

ΤΜΗΜΑ ΧΗΜΕΙΑΣ

ΠΡΟΓΡΑΜΜΑ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ ΤΜΗΜΑΤΟΣ ΧΗΜΕΙΑΣ

Αρ. Πιστ : 268

ΑΝΤΙΓΡΑΦΟ ΜΕΤΑΠΤΥΧΙΑΚΟΥ ΔΙΠΛΩΜΑΤΟΣ ΕΙΔΙΚΕΥΣΗΣ

ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ :

Η ΣΙΑΦΑΚΑ ΠΑΝΩΡΑΙΑ του ΙΩΑΝΝΗ

Τόπος γέννησης : ΑΘΗΝΑ ΑΤΤΙΚΗΣ

αφού επέτυχε σε όλες εκ του νόμου προβλεπόμενες εξετάσεις

κρίθηκε άξια του

Μεταπτυχιακού Διπλώματος Ειδίκευσης στη Χημεία

με Κατεύθυνση: ΧΗΜΕΙΑ ΚΑΙ ΤΕΧΝΟΛΟΓΙΑ ΠΟΛΥΜΕΡΩΝ

στις 20/6/2012 (20 Ιουνίου 2012)

με βαθμό 9,34 (ΕΝΝΕΑ ΚΑΙ ΤΡΙΑΝΤΑ ΤΕΣΣΕΡΑ ΕΚΑΤΟΣΤΑ)"ΑΡΙΣΤΑ"

Το πιστοποιητικό αυτό χορηγείται για χρήση στην Ελλάδα ή το εξωτερικό και υπογράφεται από την Προϊσταμένη της Γραμματείας του Τμήματος, σύμφωνα με την υπ' αριθμ. 17992/29.01.2015 Πρυτανική Απόφαση (ΦΕΚ 334/10.03.2015, τ.Β').

ΘΕΣΣΑΛΟΝΙΚΗ, 26/07/2017
Με εντολή του Πρύτανη
Η ΠΡΟΪΣΤΑΜΕΝΗ
ΤΗΣ ΓΡΑΜΜΑΤΕΙΑΣ ΤΟΥ ΤΜΗΜΑΤΟΣ

ΛΥΔΙΑ ΣΤΑΥΡΑΚΑΚΗ

Βαθμολογική Κλίμακα Επιτυχίας

α) 6,00 - 6,49	Καλώς
β) 6,50 - 8,49	Λίαν Καλώς
γ) 8,50 - 10	Άριστα

Το παρόν αποτελεί αντίγραφο του πρωτότυπου πτυχίου στην νεοελληνική

Apostille-Επισημείωση

Convention de la Haye du 5 Octobre (1961)
Σύμβαση της Χάγης της 5 Οκτωβρίου (1961)

1. Χώρα: ΕΛΛΑΔΑ
   Pays: GRÉCE
   Το παρόν δημόσιο έγγραφο
   Le présent acte public
2. έχει υπογραφεί από
   a été signé par
   ΣΤΑΥΡΑΚΑΚΗ ΛΥΔΙΑ
3. που ενήργησε με την ιδιότητα
   agissant en qualité de
   ΠΡΟΙΣΤΑΜΕΝΗ
4. φέρει τη σφραγίδα/επίσημα
   est revétu du sceau/timbre de
   ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

Η βεβαίωση χορηγείται/attesté

5. (τόπος) ΘΕΣ/ΝΙΚΗ 6. (ημερομηνία) 13/9/2019
   a le
7. από την ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ
   par ΜΑΚΕΔΟΝΙΑΣ – ΘΡΑΚΗΣ
8. με αριθμό / 16633
   sous No.
9. Σφραγίδα/επίσημα
   Sceau/timbre
10. Υπογραφή
    Signature

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ ΜΑΚΕΔΟΝΙΑΣ ΘΡΑΚΗΣ

ΠΑΥΛΙΔΗΣ
ΚΩΝΣΤΑΝΤΙΝΟΣ

TRANSLATED FROM THE GREEK LANGUAGE

HELLENIC REPUBLIC
ARISTOTLE UNIVERSITY OF THESSALONIKI
FACULTY OF SCIENCES
SCHOOL OF CHEMISTRY

Certificate No.: 269
Duplicate Receipt No.: 1168/125/26-07-2017
Euro: 13.00

IT IS HEREBY CERTIFIED THAT:

PANORAIA SIAFAKA (father's name: IOANNIS)

Place of Birth: ATHENS, ATTICA (GR)

having taken the statutory examinations for the obtainment of a doctoral diploma, as required by the law, was awarded this diploma with the grade of EXCELLENT and was granted the title of Doctor of the School of CHEMISTRY in the FACULTY OF SCIENCES of ARISTOTLE UNIVERSITY OF THESSALONIKI on 31.03.2016.

This certificate has been issued for submission to foreign authorities and has been signed by the Head of Registrar Services of the School, in accordance with Decision No. 17992/29.01.2015 of the Rector (Government Gazette 334/10.03.2015, Series II).

Thessaloniki, 26.07.2017
By order of the Rector

THE HEAD OF REGISTRAR SERVICES OF THE SCHOOL

[*signature / seal: Aristotle University of Thessaloniki*]

LYDIA STAVRAKAKI

TRANSLATED FROM THE GREEK LANGUAGE

APOSTILLE

(The Hague Convention of October 5, 1961)

1. Country: GREECE

   This public document

2. has been signed by LYDIA STAVRAKAKI

3. acting in the capacity of HEAD OF THE OFFICE

4. bears the seal/stamp of ARISTOTLE UNIVERSITY OF THESSALONIKI

   CERTIFIED

5. at THESSALONIKI 6. the 13.09.2019

7. by THE DECENTRALIZED ADMINISTRATION OF MACEDONIA-THRACE

8. No.: 16634

9. Seal / stamp
   HELLENIC REPUBLIC
   DECENTRALIZED ADMINISTRATION
   OF MACEDONIA-THRACE

10. Signature
    (signature)
    KONSTANTINOS PAVLIDIS

This is to certify according to art. 36 of Law 4194/2013
that the present document in **English**
is the exact and accurate translation
of the attached document in **Greek**
Naoussa (GR), 27 September 2019

The certifying Lawyer

Προκόπης Αν. Μπίλης
Δικηγόρος
Γ Κων/νίδη 7 • Νάουσα
Τ 2332021921 Μ. 6932654894
e-mail: bille7@hol.gr
Α.Φ.Μ. 079180877 • Δ.Ο.Υ ΒΕΡΟΙΑΣ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΧΟΛΗ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ

ΤΜΗΜΑ ΧΗΜΕΙΑΣ

Αρ. Πιστ : 269
Αριθμ. Διπλ.: 1168/125/26-07-2017
Ευρώ : 13,00

ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ :

Η ΣΙΑΦΑΚΑ ΠΑΝΩΡΑΙΑ του ΙΩΑΝΝΗ

Τόπος γέννησης : ΑΘΗΝΑ ΑΤΤΙΚΗΣ

μετά από τη δοκιμασία για το διδακτορικό δίπλωμα, την οποία ορίζει ο νόμος, κρίθηκε άξια του διπλώματος αυτού με βαθμό "ΑΡΙΣΤΑ" και αναγορεύτηκε διδάκτορας του Τμήματος ΧΗΜΕΙΑΣ της ΣΧΟΛΗΣ ΣΧΟΛΗΣ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ του ΑΡΙΣΤΟΤΕΛΕΙΟΥ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΘΕΣΣΑΛΟΝΙΚΗΣ στις 31/03/2016.

Το πιστοποιητικό αυτό χορηγείται για ξένες αρχές και υπογράφεται από την Προϊσταμένη της Γραμματείας του Τμήματος, σύμφωνα με την υπ' αριθμ. 17992/29.01.2015 Πρυτανική Απόφαση (ΦΕΚ 334/10.03.2015, τ.Β').

ΘΕΣΣΑΛΟΝΙΚΗ, 26/07/2017
Με εντολή του Πρύτανη
Η ΠΡΟΪΣΤΑΜΕΝΗ
ΤΗΣ ΓΡΑΜΜΑΤΕΙΑΣ ΤΟΥ ΤΜΗΜΑΤΟΣ

ΛΥΔΙΑ ΣΤΑΥΡΑΚΑΚΗ

Apostille - Επισημείωση

Convention de la Haye du 5 Octobre (1961)
Σύμβαση της Χάγης της 5 Οκτωβρίου (1961)

1. Χώρα: ΕΛΛΑΔΑ
   Pays: GRÉCE
   Το παρόν δημόσιο έγγραφο
   Le présent acte public
2. έχει υπογραφεί από
   a été signé par
   ΣΤΑΥΡΑΚΑΚΗ ΛΥΔΙΑ
3. που ενήργησε με την ιδιότητα
   agissant en qualité de
   ΠΡΟΙΣΤΑΜΕΝΗ
4. φέρει τη σφραγίδα/επίσημα
   est revétu du sceau/timbre de
   ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

Η βεβαίωση χορηγείται/attesté

5. (τόπος) ΘΕΣ/ΝΙΚΗ 6. (ημερομηνία) 13/9/2019
   a le
7. από την ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ
   par ΜΑΚΕΔΟΝΙΑΣ – ΘΡΑΚΗΣ
8. με αριθμό / 16634
   sous No.
9. Σφραγίδα/επίσημα
   Sceau/timbre
10. Υπογραφή
    Signature

ΔΗΜΟΚΡΑΤΙΑ ΕΛΛΗΝΙΚΗ ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ ΜΑΚΕΔΟΝΙΑΣ-ΘΡΑΚΗΣ

ΠΑΥΛΙΔΗΣ ΚΩΝΣΤΑΝΤΙΝΟΣ

T.C.

İSTANBUL MEDİPOL ÜNİVERSİTESİ

Istanbul Medipol University
School of Pharmacy
Department of Pharmaceutical Technology
34810 Beykoz Istanbul Türkiye

Certification

I undersigned, Assoc. Prof. Dr. Neslihan Üstündağ Okur, certify that Dr. Panoraia Siafaka, studied in the Laboratory of Pharmaceutical Technology at the Department of Pharmacy in Istanbul Medipol University as visiting post-doc researcher under my supervision for the academic years 2016-2017 and 2017-2018. During her numerous visits, she evaluated sufficient drug delivery systems for several drugs and various applications. Different methods were applied for the drug loading (solvent evaporation method, adsorption, microemulsions, and nanotechnology based carriers). Furthermore, she performed physicochemical and morphological characterization and participated at *ex vivo* transdermal studies and *in vitro* antibacterial studies. From the aforementioned projects interesting results were revealed which have been published in prosperous journals or are under review. In addition, Dr. Siafaka participated in teaching activities with graduate and undergraduate students of our Department, assisting in laboratory experimental design while she gave lectures on her academic and research interests.

Istanbul, June 20th 2018

Assoc. Prof. Dr. Neslihan Üstündağ Okur
Istanbul Medipol University
School of Pharmacy
Head of Department of Pharmaceutical Technology

University of Health Sciences
Faculty of Pharmacy
Department of Pharmaceutical Technology
Üsküdar, Istanbul, Turkey

Assoc. Prof. Dr. Neslihan Üstündağ Okur

Tel.: +090 (216) 418 96 16 E-mail :neslihanustundag@yahoo.com

Certification

I undersigned, Assoc. Prof. Dr. Neslihan Üstündağ Okur, certify that Dr. Panoraia Siafaka, is in collaboration with the Department of Pharmaceutical Technology at the Faculty of Pharmacy in University of Health Sciences as visiting researcher under my supervision for the academic years 2018-2020. During her numerous visits, she evaluated sufficient drug delivery systems for pharmaceutical technology applications. Only in 2020, ten review and research papers have been published from the aforementioned projects while ten more are under review. In addition, Dr. Siafaka participated in grant writing activities with other Professors and teaching activities with students of our Department.

Istanbul, September 1st 2020

Assoc. Prof. Dr. Neslihan Üstündağ Okur
Head of Department of Pharmaceutical Technology
University of Health Sciences
School of Pharmacy

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΧΟΛΗ: ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ
ΤΜΗΜΑ: ΧΗΜΕΙΑΣ
Τομέας: Χημικής Τεχνολογίας και Βιομηχανικής Χημείας
Εργαστήριο: Οργανικής Χημικής Τεχνολογίας

Θεσσαλονίκη, 18/06/2014

ΒΕΒΑΙΩΣΗ

Βεβαιώνεται ότι η κ.Πανωραία Σιαφάκα, υποψήφια διδακτόρισσα του τομέα Χημικής Τεχνολογίας και Βιομηχανικής Χημείας του Τμήματος Χημείας ΑΠΘ, παρείχε επικουρικό διδακτικό έργο κατά το ακαδημαϊκό έτος 2013-2014 στα εργαστήρια Οργανικής Χημικής Τεχνολογίας.

Ο Διευθυντής του Τομέα

Ν. Λαζαρίδης
Αν. Καθηγητής

Η Διευθύντρια του Εργαστηρίου

Ε. Σιδερίδου
Καθηγήτρια

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES COLLEGE
Surname:	TSERKEZOU
Name:	MARIA
Rank:	LECTURER
Program of Study:	
Scientific Domain: *	ENGLISH LANGUAGE TEACHING

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MA ENGLISH LANGUAGE TEACHING (MA ELT)	2005 - 2006	UNIVERSITY OF ESSEX (UK)	DEPARTMENT OF LANGUAGE AND LINGUISTICS	
BA ENGLISH LANGUAGE AND LITERATURE	1998 - 2002	ARISTOTLE UNIVERSITY OF THESSALONIKI (GREECE)	DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE	

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
10/2009	TODAY	UNIVERSITY OF NICOSIA	NICOSIA	PART-TIME FACULTY – ENGLISH LANGUAGE (CENTRE OF MODERN LANGUAGES)
09/2016	06/2020	GC INSTITUTE OF CAREERS	NICOSIA	ENGLISH LANGUAGE TEACHER
09/2010	12/2013	UNIVERSITY OF CYPRUS	NICOSIA	SPECIAL SCIENTIST – ENGLISH (LANGUAGE CENTRE)

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

Αριθμ. πιστοπ.: 423

Αριθμ. Αναλ. Εισπρ. ....
.... Ευρώ

ΦΙΛΟΣΟΦΙΚΗ ΣΧΟΛΗ
ΤΜΗΜΑ ΑΓΓΛΙΚΗΣ ΓΛΩΣΣΑΣ & ΦΙΛΟΛΟΓΙΑΣ

ΠΙΣΤΟΠΟΙΕΙΤΑΙ ΟΤΙ :

Η ΤΣΕΡΚΕΖΟΥ ΜΑΡΙΑ ΤΟΥ ΣΠΥΡΟΥ
ΑΠΟ ΛΕΥΚΩΣΙΑ

Αφού επέτυχε στα προβλεπόμενα μαθήματα και συγκέντρωσε τον απαιτούμενο αριθμό διδακτικών μονάδων, κρίθηκε άξια του πτυχίου του ΤΜΗΜΑΤΟΣ ΑΓΓΛΙΚΗΣ ΓΛΩΣΣΑΣ ΚΑΙ ΦΙΛΟΛΟΓΙΑΣ της ΦΙΛΟΣΟΦΙΚΗΣ ΣΧΟΛΗΣ με βαθμό 7.3 (Λίαν καλώς) και ορκίστηκε στις 26 Νοεμβρίου 2002.
Το πιστοποιητικό αυτό χορηγείται για κάθε νόμιμη χρήση.

Θεσσαλονίκη 26-11-2002
Η ΓΡΑΜΜΑΤΕΑΣ

Ελάχιστος βαθμός επιτυχίας είναι το 5	
ΚΧ: Κατοχυρωμένα μαθήματα	
5 - 6.49	Καλώς
6.5 - 8.49	Λίαν καλώς
8.5 - 10	Άριστα

ΚΑΚΑΝΗ-ΣΓΟΥΡΟΥ ΧΡΥΣΑΥΓΗ

UNIVERSITY OF ESSEX

This is to certify that the degree of

Master of Arts

in

ENGLISH LANGUAGE TEACHING

was conferred on

MARIA TSERKEZOU

on the 21st day of November, 2006

Registrar & Secretary

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	**KES COLLEGE**
Surname:	**XENOU**
Name:	**AIKATERINI**
Rank:	
Program of Study:	**MANAGEMENT OF PHARMACEUTICAL SCIENTIFIC DETAILING (4 YEARS/240 ECTS/BACHELOR)**
Scientific Domain: *	

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MBA	2016	OPEN UNIVERSITY OF CYPRUS	SCHOOL OF ECONOMICS AND MANAGEMENT	BUSINESS ADMINISTRATION
MSC	2010	FREDERICK UNIVERSITY CYPRUS	SCHOOL OF LAW AND BUSINESS ADMINISTRATION	MANAGEMENT OF HEALTH SERVICES AND UNITS
BACHELOR	2008	ATHENS TECHNOLOGICAL EDUCATIONAL INSTITUTE	SCHOOL OF OCCUPATIONAL HEALTH AND WELFARE	PUBLIC HEALTH

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2010	2020	MINISTRY OF HEALTH OF CYPRUS		HEALTH INSPECTOR
2008	2009	ATHENS TECHNOLOGICAL EDUCATIONAL INSTITUTE		HEAD OF EDY

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΤΕΧΝΟΛΟΓΙΚΟ ΕΚΠΑΙΔΕΥΤΙΚΟ ΙΔΡΥΜΑ

(ΤΕΙ) ΑΘΗΝΑΣ

Αρ. Πρωτοκ. : 881
Αρ.Πτυχίου : 1271
Αρ.Μητρώου : 03027

*Πιστοποιητικό Αποφοίτησης **

Πιστοποιείται ότι:

Η ΞΕΝΟΥ ΑΙΚΑΤΕΡΙΝΗ του ΝΙΚΟΛΑΟΥ και της ΑΘΗΝΑΣ, αφού παρακολούθησε και περάτωσε με επιτυχία τις σπουδές της

στο ΤΜΗΜΑ ΔΗΜΟΣΙΑΣ ΥΓΙΕΙΝΗΣ

της ΣΧΟΛΗΣ ΕΠΑΓΓΕΛΜΑΤΩΝ ΥΓΕΙΑΣ ΚΑΙ ΠΡΟΝΟΙΑΣ του ΤΕΙ - ΑΘΗΝΑΣ

κρίθηκε άξια πτυχίου στις 4 Απριλίου 2008 (δύο χιλιάδες οκτώ)
με βαθμό : "Λίαν Καλώς" (8.12) οκτώ και δώδεκα εκατοστά.

Το παρόν χορηγείται ύστερα από αίτησή της.

ΑΘΗΝΑ, 15 Απριλίου 2008

Ο Πρόεδρος του ΤΕΙ Αθήνας

Δημήτριος Νίνος
Καθηγητής

Ο Προϊστάμενος του Τμήματος

Χαρίλαος Κουτής
Καθηγητής

** (επέχει θέση αντιγράφου πτυχίου)*

FREDERICK UNIVERSITY

CERTIFICATE

To whom it may concern:

It is hereby certified that

AIKATERINI N. XENOU (Reg. No. 4017)

has successfully completed the MSc Degree Program in

HEALTH MANAGEMENT

and has been recommended to receive the MSc Degree.

The Certificate is given in lieu of the receipt of the formal Degree.

Signed and Sealed
This 30th day of June 2010.

FREDERICK UNIVERSITY CYPRUS

M. Frederickou
President of the Governing Board

All correspodendence to be addressed to
Frederick University Nicosia Campus

Nicosia Campus
7 Yianni Frederickou Str., Pallouriotissa, 1036 Nicosia, POBox 24729, 1303 Nicosia, Cyprus
Telephone: +357 22431355, Telefax: +357 22438234, E-mail: info@frederick.ac.cy, Website: www.frederick.ac.cy

Limassol Campus
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10784

FREDERICK UNIVERSITY

ACADEMIC RECORD

GRADING SYSTEM (See overleaf)

Student's Name: XENOU AIKATERINI NICOLAOS			**Transfered ECTS:** 0
Address: IVIKOU 77,-,LIMASSOL			**Major:** Health Management (Nicosia)
Born: 15 Dec 1985	**Sex:** Female	**Reg.No:** 4017	**Award:** Master of Science

Subject Code	Subject Description	ECTS Att.	ECTS Earned.	Grade	Points/ Hours
	Semester:Spring 2009				
MHM501	HEALTH SYSTEMS AND HEALTH POLICY (AND THE HELLENIC/CYPRIOT HEALTH SYSTEM)	4	4	A	40.00/4
MHM502	INTRODUCTION TO MANAGEMENT AND MANAGEMENT OF HEALTH SERVICES	6	6	A	60.00/6
MHM503	HUMAN RESOURCES MANAGEMENT AND HEALTH ORGANISATIONS	6	6	A	60.00/6
MHM504	MARKETING IN HEALTH ORGANISATIONS	5	5	B	40.00/5
MHM505	PUBLIC HEALTH AND MANAGEMENT OF PUBLIC HEALTH SERVICES	5	5	A	50.00/5
MHM506	EVALUATION OF HEALTH SYSTEM , SERVICES AND PUBLIC HEALTH PROGRAMS	4	4	B	32.00/4
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS: 30** **Semester GPA: 9.40** **Cumulative GPA: 9.40**

	Semester:Fall 2009				
MHM507	HEALTH QUALITY MANAGEMENT	5	5	A	50.00/5
MHM509	HEALTH ECONOMICS: THE ECONOMICS OF PUPLIC AND PRIVATE HEALTH SECTOR AND PHARMACEUTICAL CARE	5	5	A	50.00/5
MHM510	SOCIAL AND BEHAVIOURAL ASPECTS OF HEALTH MANAGEMENT	5	5	A	50.00/5
MHM511	FINANCIAL AND ECONOMIC MANEGEMENT OF PUPLIC AND PRIVATE HEALTH SERVICES	4	4	A	40.00/4
MHM512	HEALTH LAW AND ETHICAL ISSUES	6	6	A	60.00/6
MHM508	OPERATIONAL MANAGEMENT AND LOGISTICS	5	5	D	30.00/5
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS: 60** **Semester GPA: 9.33** **Cumulative GPA: 9.37**

	Semester:Spring 2010				
MHM513	INFORMATION TECHNOLOGY IN HEALTH SYSTEMS	6	6	A	60.00/6
MHM514	RESEARCH METHODOLOGY	4	4	B	32.00/4
MHM515	DISSERTATION	20	20	A	200.00/20
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS: 90** **Semester GPA: 9.73** **Cumulative GPA: 9.49**

END OF RECORD

Printed On: 02 Jul 2010

FREDERICK UNIVERSITY CYPRUS

Chryso Demosthenous (Ms), Registrar's Office

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Nicosia Campus
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9254

FREDERICK UNIVERSITY

ACADEMIC RECORD

GRADING SYSTEM (See overleaf)

Student's Name: XENOU AIKATERINI NICOLAOS			Transfered ECTS: 0
Address: IVIKOU 77,-,LIMASSOL			Major: Health Management (Nicosia)
Born: 15 Dec 1985	Sex: Female	Reg.No: 4017	Award: Master of Science

Subject Code	Subject Description	ECTS Att.	ECTS Earned.	Grade	Points/ Hours
	Semester:Spring 2009				
MHM501	HEALTH SYSTEMS AND HEALTH POLICY (AND THE HELLENIC/CYPRIOT HEALTH SYSTEM)	4	4	A	40.00/4
MHM502	INTRODUCTION TO MANAGEMENT AND MANAGEMENT OF HEALTH SERVICES	6	6	A	60.00/6
MHM503	HUMAN RESOURCES MANAGEMENT AND HEALTH ORGANISATIONS	6	6	A	60.00/6
MHM504	MARKETING IN HEALTH ORGANISATIONS	5	5	B	40.00/5
MHM505	PUBLIC HEALTH AND MANAGEMENT OF PUBLIC HEALTH SERVICES	5	5	A	50.00/5
MHM506	EVALUATION OF HEALTH SYSTEM , SERVICES AND PUBLIC HEALTH PROGRAMS	4	4	B	32.00/4
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS: 30** **Semester GPA: 9.40** **Cumulative GPA: 9.40**

	Semester:Fall 2009				
MHM507	HEALTH QUALITY MANAGEMENT	5	5	A	50.00/5
MHM509	HEALTH ECONOMICS: THE ECONOMICS OF PUPLIC AND PRIVATE HEALTH SECTOR AND PHARMACEUTICAL CARE	5	5	A	50.00/5
MHM510	SOCIAL AND BEHAVIOURAL ASPECTS OF HEALTH MANAGEMENT	5	5	A	50.00/5
MHM511	FINANCIAL AND ECONOMIC MANEGEMENT OF PUPLIC AND PRIVATE HEALTH SERVICES	4	4	A	40.00/4
MHM512	HEALTH LAW AND ETHICAL ISSUES	6	6	A	60.00/6
MHM508	OPERATIONAL MANAGEMENT AND LOGISTICS	5	5	D	30.00/5
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS: 60** **Semester GPA: 9.33** **Cumulative GPA: 9.37**

END OF RECORD

Printed On 09 Apr 2010

FREDERICK UNIVERSITY CYPRUS

Page 1 of 1

Chryso Demosthenous (Ms), Registrar's Office

All correspodendence to be addressed to
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7755

FREDERICK UNIVERSITY

ACADEMIC RECORD

GRADING SYSTEM (See overleaf)

Student's Name: XENOU AIKATERINI NICOLAOS			**Transfered ECTS:** 0
Address: IVIKOU 77,-,LIMASSOL			**Major:** Health Management (Nicosia)
Born: 15 Dec 1985	**Sex:** Female	**Reg.No:** 4017	**Award:** Master of Science

Subject Code	Subject Description	ECTS		Grade	Points/ Hours
		Att.	Earned.		
	Semester:Spring 2009				
MHM501	HEALTH SYSTEMS AND HEALTH POLICY (AND THE HELLENIC/CYPRIOT HEALTH SYSTEM)	4	4	A	40.00/4
MHM502	INTRODUCTION TO MANAGEMENT AND MANAGEMENT OF HEALTH SERVICES	6	6	A	60.00/6
MHM503	HUMAN RESOURCES MANAGEMENT AND HEALTH ORGANISATIONS	6	6	A	60.00/6
MHM504	MARKETING IN HEALTH ORGANISATIONS	5	5	B	40.00/5
MHM505	PUBLIC HEALTH AND MANAGEMENT OF PUBLIC HEALTH SERVICES	5	5	A	50.00/5
MHM506	EVALUATION OF HEALTH SYSTEM , SERVICES AND PUBLIC HEALTH PROGRAMS	4	4	B	32.00/4
	TOTAL:	**30**	**30**		

Semester ECTS: 30 **Cumulative ECTS:** 30 **Semester GPA:** 9.40 **Cumulative GPA:** 9.40

END OF RECORD

FREDERICK UNIVERSITY CYPRUS

Printed On: 10 Mar 2010

Chryso Demosthenous (Ms), Registrar's Office

All correspodendence to be addressed to:
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Telephone: +357 25730975, Telefax: +357 25735001, E-mail: info@frederick.ac.cy, Website: www.frederick.ac.cy

ΑΝΟΙΚΤΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ

Η Διοικούσα Επιτροπή του ΑΝΟΙΚΤΟΥ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΚΥΠΡΟΥ, ως και Σύγκλητος του Ιδρύματος,
αφού πιστοποίησε την επιτυχή ολοκλήρωση της φοίτησης και όλων των συναφών ακαδημαϊκών υποχρεώσεων,
ύστερα από εισήγηση της Σχολής Οικονομικών Επιστημών και Διοίκησης,
απονέμει στην

Αικατερίνη Ξένου

τον

ΜΕΤΑΠΤΥΧΙΑΚΟ ΤΙΤΛΟ

MAGISTER

ΔΙΟΙΚΗΣΗ ΕΠΙΧΕΙΡΗΣΕΩΝ (MBA)

Ο Τίτλος αυτός κατοχυρώνει όλα τα δικαιώματα που απορρέουν από αυτόν.

Λευκωσία
Τριακοστή Πρώτη Ιουλίου του έτους Δύο Χιλιάδες Δεκαέξι.

ΑΝΤΙΠΡΟΕΔΡΟΣ ΑΚΑΔΗΜΑΪΚΩΝ ΘΕΜΑΤΩΝ

ΠΡΟΕΔΡΟΣ ΔΙΟΙΚΟΥΣΑΣ ΕΠΙΤΡΟΠΗΣ

ΑΝΤΙΠΡΟΕΔΡΟΣ ΟΙΚΟΝΟΜΙΚΩΝ ΘΕΜΑΤΩΝ

ΑΝΟΙΚΤΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ

Μονάδα Υποστήριξης Φοιτητών και Προγραμμάτων Σπουδών

ΚΑΤΑΣΤΑΣΗ ΑΝΑΛΥΤΙΚΗΣ ΒΑΘΜΟΛΟΓΙΑΣ

Ονοματεπώνυμο Φοιτητή	: **Αικατερίνη Ξένου**	Κύκλος Σπουδών	: **Μεταπτυχιακό**
Πολιτική Ταυτότητα/Διαβατήριο	: **X333419**	Σχολή	: **Σχολή Οικονομικών Επιστημών και Διοίκησης**
Έτος Εισδοχής	: **2012-2013**	Πρόγραμμα Σπουδών	: **ΜΔΕ: Διοίκηση Επιχειρήσεων (MBA)**
Ημερομηνία έκδοσης	: **14/07/2016**	Κατεύθυνση	:
Κατάσταση	: **Απόφοιτος**		

Κωδικός	Τίτλος Θεματικής Ενότητας	Βαθμός	Ακαδημαϊκό Έτος
ΜΔΕ50	Οργάνωση και Διοίκηση	8.00	2012-2013
ΜΔΕ51	Χρηματοοικονομική και Λογιστική	7.50	2013-2014
ΜΔΕ60	Ηγεσία και λήψη αποφάσεων	8.00	2014-2015
ΜΔΕ61	Μάρκετινγκ	9.00	2015-2016
ΜΔΕ701	Διατριβή Μάστερ Ι	8.50	2015-2016
	Σταθμικός Μέσος Όρος: 8,20		

*** Τέλος Κατάστασης Αναλυτικής Βαθμολογίας ***

Έλενα Γρηγορίου
Προϊσταμένη Μονάδας Υποστήριξης Φοιτητών και Προγραμμάτων Σπουδών

ΑΝ = Αναγνώριση Πιστωτικών Μονάδων
ΑΠ = Αποτυχία
ΑΚ = Ανολοκλήρωτη Θ.Ε.
Βαθμός < 5 = Αποτυχία
Βαθμός >= 5 = Επιτυχία

FORM: 500.1.04

Academic Personnel Short Profile / Short CV

Institution:	KES COLLEGE
Surname:	YEROCOSTA D.
Name:	COSTA
Rank:	LECTURER
Program of Study:	MARKETING/MANAGEMENT
Scientific Domain: *	BUSINESS

**Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
MBA	2000	FLORIDA METROPOLITAN UNIVERSITY	BUSINESS	INTERNATIONAL MARKETING ANALYSIS
BSc	1999	FLORIDA METROPOLITAN UNIVERSITY	BUSINESS	MARKETING/MANAGEMENT
DIPLOMA	1992	INTERCOLLEGE	HOTEL	HOTEL MANAGEMENT

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2006	CURRENT	KES COLLEGE	NICOSIA	LECTURER
2008	2010	POWER PUBLISHING	NICOSIA	MARKETING MANAGER
2004	2006	CREDITINFO	NICOSIA	HEAD OF THE MARKETING & SUBSCRIBER

				SERVICE DEPARTMENT

Florida Metropolitan University

Clearwater, Florida

By the authority of the Board of Governors
of the University and upon the recommendation of the faculty of

Tampa College – Pinellas

The University does hereby confer upon

Costa D. Yerocosta

the degree of

Bachelor of Science Marketing/Management

Summa Cum Laude

with all honors, rights and privileges pertaining thereto.

Given under charter of the state of Florida and this seal of Florida Metropolitan University

this 3 Day of April, 199 9

Chancellor

Chair, Board of Governors

College President

President, Florida Metropolitan University

Florida Metropolitan University

Tampa, Florida

By the authority of the Board of Governors
of the University and upon the recommendation of the faculty of

Tampa College

The University does hereby confer upon

Costa D. Yerocosta

the degree of

Master of Business Administration

with all honors, rights and privileges pertaining thereto.
Given under charter of the state of Florida and this seal of Florida Metropolitan University
this 7th Day of October 2000

Chancellor

Chair, Board of Governors

College President

President, Florida Metropolitan University

INTERCOLLEGE

"Excellence in Education"

The Board of Governors of Intercollege, upon the recommendation of its Faculty, has conferred upon

Costas D. Constantinou

the

Diploma

in

Hotel Management

with all the rights, honors, and privileges pertaining to that conferral.

In recognition thereof we attach our seal and inscribe our signatures on this 18th day of June 19 94

Dean

President

KES COLLEGE – Nicosia – Cyprus
I certify that this is a true copy of the original document seen by me on 24.07.03
Theo P. Stylianou,
KES COLLEGE, Director

ANNEX "6"

UPDATED TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY

No	Name and Surname		Specialty	Taught courses in the Program of Study under accreditation	
			Code	Course	Periods/ week
1.	Charalambous Agis **(new member)**	Law	LAWS307	Pharmacy Law	2
			LAWS406	Introduction to competition law	2
2.	Christodoulou Andri **(new member)**	Communication	PURE207	Public Relations	2
3.	Demetriou Andrea, cPhD **(new member)**	Mathematics, Statistics	STAT104	Introduction to Statistics / Biostatistics	2
4.	Demetriou Demetris	Accounting	ACCT201	Basic Principles of Accounting	2
			ACCT310	Costing	2
5.	Filippou Elli	Pharmacy	MEDI305	Toxicology	3
			PHRM217	Pharmacology II	3
6.	Dr. Georgiou Marina	Genetics / Molecular Biology	PHRM310	Elements of Biotechnology	2
7.	Dr. Georgiou Nicos	Psychology	COMM305	Development of Personal Skills	2
8.	Yerocostas Costas **(new member)**	Marketing	MRKT100	Principles of Marketing	2
			MTKT313	e – Marketing	3
9.	Dr. Karagiannis Achilleas	Business Administration	MGMT110	Basic Principles of Management	2
			ENTR304	Entrepreneurship	2
			MRKT403	Integrated Marketing Communication	2
			PROJ403	Project Management	3
			MGMT407	Operations Management	3
			BUSS315	International Business	2

UPDATED TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY (Cont.)

A/A	Name and Surname		Specialty	Taught courses in the Program of Study under accreditation	
			Code	Course	Periods/ week
10.	Kyriakidou Stella	Marketing	MRKT207	Consumer Behaviour	2
			HRMG400	Human Resources Management	2
			MRKT402	Marketing Research	2
11.	Miliotou Androulla, cPhD **(new member)**	Biochemistry and Biotechnology, Pharmaceutical Biotechnology, Molecular Pharmacology	PHRM210	Pharmacology I	3
			CHEM120	Elements of Biochemistry	3
			PHRM221	Medical Devices	1
			PRCT323	Practical Training	7
			PROJ413	Thesis I	3
			PROJ414	Thesis II	4
12.	Dr. Oulas Anastasios **(new member)**	Bioinformatics	BIOL400	Bioinformatics	2
13.	Panagiotou Elena, cPhD **(new member)**	Economics, Business Administration	ECON110	Introduction to Economics	2
14.	Papadopoulos Elias, MD **(new member)**	Medicine	MEDI102	Human Anatomy	3
			MEDI121	Physiology I	2
			MEDI114	Greek and English Medical Terminology	2
			MEDI207	Physiology II	3
			MEDI111	Nosology	2
15.	Dr. Pieridou Galatia	Chemistry, Educational Leadership	CHEM108	General and Inorganic Chemistry	3
			PHRM400	Parapharmaceutical products	2
16.	Dr. Sarris Dimitris	Biology	BIOL104	Cell-Biology and Development	3
			MEDI125	Introduction to Microbiology	2
17.	Savvidou Andria, cPhD	Clinical Pharmacy	PHRM214	Domestic Pharmaceutical Formulations	1
			PHRM308	Specialized Pharmacology: Formulation	2
			PHRM312	Pharmacovigilance and Clinical Trials	2

UPDATED TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY (Cont.)

A/A	Name and Surname		Specialty	Taught courses in the Program of Study under accreditation	
			Code	Course	Periods/ week
18.	Savvidou Katerina **(new member)**	Pharmacy and MBA	ECON402	Pharmacoeconomics	2
			MRKT214	Pharmaceutical Marketing	3
			MRKT404	Biotechnological Products Sales Consulting	2
19.	Dr. Siafaka Panoraia **(new member)**	Chemistry, Pharmaceutical Technology	CHEM106	Organic Chemistry	2
			PHRM213	Elements of Pharmaceutical Technology	2
			PHRM209	Principles of Biopharmaceutics and Pharmacokinetics	2
			MEDI214	Medical - Scientific Publications	2
			PROJ325	Methodology of Research in Health Sciences	2
			CHEM201	Chemistry of Pharmaceutical and Natural Products	2
20.	Dr. Sophocleous Xanthi	Clinical Nutrition	COMM307	Professional Communication	2
			MEDI302	Introduction to Nutrition	2
21.	Tserkezou Maria **(new member)**	English Literature	ENGL101	General English	2
22.	Xenou Aikaterini **(new member)**	Public Health	MEDI304	Introduction to Public Health-GESY	2

ANNEX "7"

INITIAL TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY

No	Name and Surname	Specialty	Taught courses in the Program of Study under accreditation		
			Code	Course	Periods per week
1.	Dr. Georgiou Marina	Genetics / Molecular Biology	PHRM102	Elements of Biotechnology	1
2.	Dr. Georgiou Nicos	Psychology	COMM300	Interpersonal Communication	2
3.	Demetriou Demetris	Accounting	ACCT201	Basic Principles of Accounting	2
4.	Demosthenous Savvas **(doesn't teach)**	Medicine	MEDI102	Human Anatomy	3
			MEDI115	Physiology I	3
			MEDI113	Greek and English Medical Terminology	3
			MEDI202	Physiology II	3
			PHRM221	Medical Devices	1
			MEDI111	Nosology	2
			MEDI204	Medical - Scientific Publications	2
			MEDI304	Introduction to Public Health-GESY	2
5.	Zachariadou Maria **(do not teach)**	Economics, Business Administration	ECON302	Introduction to Economics	3

INITIAL TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY (Cont.)

No	Name and Surname	Specialty	Taught courses in the Program of Study under accreditation		
			Code	Course	Periods per week
6.	Theocharous Spyros **(do not teach)**	Chemistry, Educational Leadership	CHEM102	General and Inorganic Chemistry	3
			CHEM106	Organic Chemistry	2
			CHEM201	Chemistry of Pharmaceutical and Natural Products	2
			PRCT301	Practical Training	10
			PRCT322	Methodology of Research in Health Sciences	2
			PROJ410	Thesis I	4
			PROJ412	Thesis II	4
7.	Dr. Karagiannis Achilleas	Business Administration	MGMT309	Basic Principles of Management	2
			ENTR302	Entrepreneurship	2
			BUSS309	Effective Organization and Sales Administration	2
			HRMG400	Human Resources Management	2
			PROJ411	Project Management	4
			MGMT406	Operations Management	4
8.	Kyriakidou Stella	Marketing	MRKT100	Principles of Marketing	2
			MRKT208	Pharmaceutical Marketing (Promotion and Distribution of Pharmaceuticals)	2
			MRKT207	Consumer Behaviour	2
			MRKT305	Integrated Marketing Communication	2
9.	Constantinou Eve **(do not teach)**	Food Technology	MEDI302	Introduction to Nutrition	2

INITIAL TEACHING PERSONNEL, COURSES AND TEACHING PERIODS IN THE PROGRAM OF STUDY (Cont.)

A/A	Name and Surname	Specialty	Taught courses in the Program of Study under accreditation		
			Code	Course	Periods per week
10.	Moti Vasiliki **(do not teach)**	Public Relations, Marketing	PURE103	Public Relations	4
			MRKT402	Marketing Research	2
			MTKT313	e – Marketing	3
11.	Panteli Maria **(do not teach)**	English Literature	ENGL103	General English	4
12.	Dr. Pieridou Galatia	Chemistry	CHEM300	Elements of Biochemistry	3
13.	Savvidou Andria	Clinical Pharmacy	PHRM209	Principles of Biopharmaceutics and Pharmacokinetics	2
			PHRM214	Domestic Pharmaceutical Formulations	1
			MEDI305	Toxicology	3
			PHRM308	Specialized Pharmacology: Formulation	2
14.	Dr.Sarris Dimitris	Biology	BIOL102	Elements of Biotechnology	2
			MEDI109	Introduction to Microbiology	2
15.	Sophocleous Xanthi	Clinical Nutrition	COMM203	Professional Communication	2
16.	Sozos Evangelos **(do not teach)**	Mathematics, Statistics	STAT104	Introduction to Statistics / Biostatistics	2
17.	Filippou Elli	Pharmacy	PHRM203	Pharmacology I	3
			PHRM200	Elements of Pharmaceutical Technology	2
			PHRM211	Pharmacology II	3
			LAWS200	Pharmacy Law and Bio-Ethics	1
			LAWS304	Pharmacy Law – Deontology – GDPR	2
			ECON400	Pharmaco-economics	3

ANNEX "8"

UPDATED LIST WITH QUALIFICATIONS, RANK AND EMPLOYMENT STATUS FOR THE TEACHNING PERSONNEL

No	Name and Surname	Qualifications	Rank	FT/PT**
1.	Charalambous Agis **(new member)**	• LLB Law (Hons), Birmingham City University, 2016 • LLM Medical Law, University of Kent, 2017 • PGC Blockchain Business Analyst, University of Nicosia, 2019	L	PT
2.	Christodoulou Andri **(new member)**	• MA in Journalism and Communication, Open University of Cyprus, 2015 • Bachelor in History and Archeology, National and Kapodistrian University of Athens, 2006	L	FT
3.	Demetriou Andrea, cPhD **(new member)**	• cPhD Math Education, Frederick University • PGCE Maths, University Manchester, 2011 • BSC Hons Maths, University Manchester, 2010	L	PT
4.	Demetriou Demetris	• Master in Education, Open University of Cyprus, 2013 • BSc in Accounting, University of North Texas, 1988	L	FT
5.	Filippou Elli	• BSc in Pharmacy, Veterinary and Pharmaceutical Sciences Brno, 2014 • Master's Degree's Degree in Pharmacy, Veterinary and Pharmaceutical Sciences Brno, 2014	L	FT
6.	Dr. Georgiou Marina	• Ph.D. Clinical Medicine Research, Imperial College London, 2018 • MRes in Cancer Biology, Imperial College London, 2013 • B.Sc. in Genetics, Queen Mary University, 2012	SL	PT
7.	Dr. Georgiou Nicos	• Phd in in Phycology, University of Cyprus 2015 • MSc in Cognitive, Evolutionary and Educational Psychology, University of Cyprus 2011 • BSc in Psychology, 2009	SL	PT

UPDATED LIST WITH QUALIFICATIONS, RANK AND EMPLOYMENT STATUS FOR THE TEACHNING PERSONNEL (Cont.)

No	Name and Surname	Qualifications	Rank	FT/PT**
8	Yerocostas Costas **(new member)**	• MBA Florida Metropolitan Management, 2000 • BSc Marketing Management, Florida Metropolitan 1999	L	FT
9.	Dr.Karayiannis Achilleas	• PhD in Management, University of Essex, 2009 • MA in Organisation Studies, Warwick University, 2005 • BSc in Business Administration & Management with Psychology, Oxford Brookes University, 2004	SL	FT
10.	Kyriakidou Stella	• Master of Commerce in Marketing, Strathclyde University, Scotland, UK, 1987 • BA in Business Studies, Philips College, Nicosia, Cyprus, 1985	L	FT
11.	Miliotou Androulla, cPhD **(new member)**	• BSc Biochemistry and Biotechnology at University of Thessaly, 2013 • MSc Pharmaceutical Biotechnology and Molecular Diagnosis, at School of Pharmacy, Aristotle University of Thessaloniki, 2016 • cPhD Molecular Pharmacology at School of Pharmacy, Aristotle University of Thessaloniki	SL	FT
12.	Dr. Oulas Anastasios **(new member)**	• PhD Molecular Biology and Biomedicine, University of Crete, 2009 • MSc in Computational Genetics and Bioinformatics, 2002, Imperial College of Science, Technology and Medicine, UK. • BSc in Molecular Genetics in Biotechnology, University of Sussex, 2001, UK	SL	PT
13.	Panagiotou Elena, cPhD **(new member)**	MBA Economics, MIM, 2015 BA in Economics, University of Cyprus 2013	L	FT

UPDATED LIST WITH QUALIFICATIONS, RANK AND EMPLOYMENT STATUS FOR THE TEACHNING PERSONNEL (Cont.)

No	Name and Surname	Qualifications	Rank	FT/PT**
14.	Papadopoulos Elias, MD **(new member)**	• Medical Degree in Aristotle University of Thessaloniki, 1994 • Specialty in General Surgery and Pediatric Surgery, 2002	SL	FT
15.	Dr. Pieridou Galatia	• PhD. Chemistry, University of Cyprus, 2011 • BSc Chemistry, University of Cyprus, 2005	SL	FT
16.	Dr.Sarris Dimitris	• PhD in Biological Sciences, University of Patras, 2008 • FTSc in Ecology, Management and Protection of the Natural Environment, University of Patras, 2004 • BSc Biology, University or Patras, 2001	SL	FT
17.	Savvidou Andria	• Master's Degree in Clinical Pharmacy, National and Kapodistrian University of Athens, Greece, 2019 • Bachelor in Pharmacy, Aristotle University of Thessaloniki • PhD Candidate in Clinical Oncology at the Medical School of the University of Cyprus	L	PT
18.	Savvidou Katerina **(new member)**	• Master in Business Adidministration, MIM, Cyprus, 2019 • Master in Pharmacy, University of Brighton, 2011 • BA in Pharmacy, University of Brighton, 20	L	PT
19.	Dr. Siafaka Panoraia **(new member)**	• PhD of Chemistry, Polymers Chemistry – Tecnology, Aristotle Univ. of Thessaloniki • MSc in Chemistry, Aristo-tle Univ. of Thessaloniki • BSc in Chemistry, Aristo-tle Univ. of Thessaloniki	L	PT

UPDATED LIST WITH QUALIFICATIONS, RANK AND EMPLOYMENT STATUS FOR THE TEACHNING PERSONNEL (Cont.

No	Name and Surname	Qualifications	Rank	FT/PT**
20.	Dr. Sophocleous Xanthi	PhD Health and Nutrition, University of Nicosia, 2020 MBA Maastricht School of Management, 2004 BSc Nutrition and Dietetics, Charocopio University of Athens, 1999	SL	FT
21.	Tserkezou Maria **(new member)**	MA English Language Teaching (MA ELT) University of Essex (United Kingdom), 2006 BA English Language and Literature, University of Thessaloniki, 199	L	PT
22.	Xenou Aikaterini **(new member)**	• BA Health and Welfare, TEI ATHENS, 2008 • MSc Degree Program in Health Management, Frederick University, 2010 • MBA, Open University of Cyprus, 2016	L	PT

* Rank: Professor (P), Associate Professor (Assoc. P), Assistant Professor (Assis. P), Senior Lecturer (SL), Lecturer (L), Special Teaching Personnel (STP), Visiting Professor (Vis. P), Special Scientist (SS), Lab Assistant (LA)

** Full Time (FT), Part Time (PT)

ANNEX "9"

KES COLLEGE RESEARCH POLICY

1. Research policy

KES COLLEGE is committed to taking all the necessary measures to ensure that research is promoted within the College. It is also the policy of KES COLLEGE that teaching and learning should be enlightened by research activities, in support of the College's main goal for improving its student's professional perspective.

KES College mostly offers Professional Degrees and is thus interested in developing research activities focusing mainly on applied research for covering society and market needs in fields related to its 22 Degree Programs. Through its annual calls for internal research programs' funding, the College seeks to set up Research Teams that consist of the College's teaching / research staff, working autonomously or in collaboration with external bodies.

For achieving these goals, the College primarily collaborates, but not only, with KES RESEARCH CENTRE. KES RESEARCH CENTRE is a non-profit research organization registered at the Cyprus Research Promotion Foundation (UNIC: 1217026583) and at the Department of Registrar of Companies and Official Receiver as a private non-profit limited liability company (HE395935) based in Nicosia (Cyprus). It operates either autonomously or in co-operation with other entities, such as companies, research institutes, external researchers and academics.

Through this collaboration, KES COLLEGE shares the objectives of KES RESEARCH CENTRE, which are:

- The independent conduct of mainly applied research (industrial research or experimental development) and the wide dissemination of research results through teaching, publication or transfer of knowledge.
- The continuous promotion of research and innovation within the Republic of Cyprus.
- The participation of Cypriot researchers in international research activities and the cooperation of Cypriot researchers with researchers from other countries.
- The preparation and submission of research proposals for funding by Cypriot, European, International or other agencies and institutions.
- The dissemination of research results to the public.

Under the above framework, research is conducted at KES COLLEGE in two ways: A) Through the individual research work of each academic staff and B) Through calls for internal research programs funded by the College (or jointly by other interested bodies) offering incentives to its teaching staff for participation. The College strives to stimulate research work for the academic development of its teaching staff, having in mind that teaching can also benefit from research work. In addition, it seeks to benefit the students of its programs by offering them new opportunities and experiences to participate in research projects and encourages that the output of such activities is used in their dissertations thesis. This mainly applies for students of its 3 and 4 year Degree Programs, as the 2 year Degree Programs are mainly of vocational character.

2. Regulations and procedures of research work

Once a year KES COLLEGE announces a call for internal research projects. The Research Officer of the College has the responsibility of issuing the call and reports to the College's Administration Board. The Research Officer's qualifications require holding a PhD degree and having significant research experience. The Research Officer is also responsible for setting up the evaluation committee for the submitted research proposals. The committee is composed of members of the College with research experience but also has the possibility of involving external evaluators.

The Evaluation Committee submits its recommendations to the Administration Board of the College for the final decision on the funding of the submitted research proposals. For positively evaluated internal research projects, the Research Teams submit research progress reports, on a 3 or 6 month basis to the Research Officer, which are forwarded to the Research Committee and the Administration Board of the College for final approval (see point 6 Internal research funding policy). The implementation of the research activities are carried out by the Research Teams in cooperation with the relevant Coordinators of each Degree Program in collaboration, when required, with KES RESEARCH CENTER or other partners.

At the end of each academic year, the Research Officer submits to Administration Board of the College a report of the research activities carried out based on the reports produced by the Research Teams. Finally, the Research Officer is also tasked with supporting the dissemination of the Colleges' research activity. Apart from the usual channels for disseminating research findings (scientific conference announcements, journals, publications, etc.), publicity can be made by the media available at KES College (Website, the College's Journal, Social Media etc.) or through special dissemination events.

The Research Officer of KES College also monitors the opening of research calls by both Public and Private Foundations in Cyprus and other bodies and has the overall responsibility for informing faculty members of the opportunities given for participating in external research programs. In addition, the Research Officer offers support in the event of interest by faculty members for pursuing a research call. The Research Officer also liaises with KES RESEARCH CENTER and other research partners on their research support needs and informs the Coordinators of each Degree at KES COLLEGE. The Coordinators are tasked with informing the academic staff and students, for the opportunities given to participate in available research projects.

3. Internal research funding policy

KES College, once a year, releases a call open to all members of its academic staff for the submission of research proposals to be evaluated for internal funding. The call specifies inter alia the submission form, the duration of the call, the number of proposals to be funded, the evaluation process, the amount of funding and the duration of the projects. Proposals should aim at developing research projects and forming Research Teams within the College, in collaboration if required with external partners, to generate new knowledge in the areas of society, economics and the environment where the Institution has developed its 22 Programs of Study.

Proposals are evaluated by a committee composed of members of the Foundation with research experience with the involvement if required of external evaluators. The evaluation committee submits its recommendations to the Colleges' Administration Board for the final decision on which research proposals will be funded.

The Research Teams of projects that are selected are given financial incentives by allocating €1,000 to complete their Final Project Report and publish their Results, in addition to financing the operational costs of conducting the research (consumables, cost of outsourcing analyzes, travels etc.). The Research Officer of the College is responsible for the evaluation of the Final Project Report in collaboration with the projects evaluation committee.

To each Research Team Member an additional economic support is provided for:

- Participating with a Scientific Announcement (oral or poster) at an International Conference – up to €1000
- Participating with a Scientific Announcement (oral or poster) at a National Conference – up to €700
- Attending an International Conference- up to €500
- Attending a National Conference- up to €300

A precondition for receiving the above funding is to register at the conference with the affiliation of KES College.

Research Team members that have submitted their Final Report are also given priority in their applications for participating in Erasmus + for one academic year to promote:

- scientific training abroad
- scientific networking / collaboration
- the invitation of foreign scientists to Cyprus for scientific networking-cooperation

4. Linking research activity to teaching

The College's Degree Programs are mostly professional in nature. However, a Diploma Thesis is required mostly in 3 and 4 year Degree Programs. The Diploma Thesis is the main means of introducing students to the research process. In addition, the results of the research projects developed within the College are available to its students for the preparation of their Diploma Thesis.

The Curricula also includes courses for the preparation of writing Diploma Thesis focusing on research methodology taught by academic staff with research experience. In these courses, students are trained in the design, implementation and presentation of a scientific work, in scientific methods, in techniques of scientific writing, including the selection and use of relevant literature.

Finally, a number of students are involved in the implementation of research projects, which enhances their contact with the research process.

5. Linking research activity to research policy

The College's research policy is based on the development of applied research activities, mainly focusing on the needs of society and the market related to social, economic and environment themes in accordance to its 22 Degree Programs. To achieve this goal it has since 2018 established its internal research funding program promoting the formation of Research Team that collaborate with external partners to transfer know-how to society and the production sector. Examples of how its internal research funding complies with its research policy are outlined in the following research projects:

- “Investigating the identity and satisfaction of MAC Cosmetics customers in Cyprus based on professional Aesthetics and the general public” implemented by the Beauty Therapy Programs of the School of Health Studies Research Team in collaboration with the Costas Papaellinas Organization (representative of the MAC Cosmetics Company in Cyprus).

- "Investigation of food safety provided by organic and conventional Bananas cultivated and sold in Cyprus” implemented by the Organic Production Technicians’ Program of the School of Environmental Studies Research Team in collaboration with the Association of Organic Farmers in Cyprus, the Institute for Inspection and Certification in Organic Farming “LACON” and the Chemical Analysis Lab “Food Lab”.

- “Production of novel food recipes based on the new carob based liquor Teratsina” implemented by the Culinary Arts Programs of the School of Culinary Arts, Hospitality and Tourism Research Team in collaboration with “Black Gold” Project Team of the University of Cyprus.

- “Evaluation of the innovative tree planting system G.A.T.E.” implemented by the Gardening and Landscape Designing Program of the School of Environmental Studies Research Team in collaboration with the Agricultural Research Institute of Cyprus and ASTERIS ELEFTHERIOS THINGS GREEN LTD.