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5 Ιουνίου 2018

Καθ. Μαίρη Ιωαννίδου - Κουτσελίνη
Πρόεδρο Συμβουλίου Φορέα
ΔΙ.Π.Α.Ε.
Λεωφόρος Λεμεσού 5,
2112 Λευκωσία

Θέμα: **Έκθεση της Ομάδας Ειδικών για το Πρόγραμμα Σπουδών «Infectious Diseases: Prevention and Control (M.Sc)»**

Ευχαριστούμε για την Έκθεση της Ομάδας Ειδικών που μας αποστείλατε ηλεκτρονικά στις 7 Μαΐου 2018.

Επισυνάπτουμε τα σχόλια της Ιατρικής Σχολής για την εν λόγω Έκθεση.

Με εκτίμηση,

Καθηγητής Ανδρέας Φ. Μακρής
Αντιπρύτανης Ακαδημαϊκών Υποθέσεων

Κοιν.: - Κοσμήτορα Ιατρικής Σχολής
- Διευθύνοντα Σύμβουλο

Συν.: (3)

European University Cyprus

School of Medicine

Department: Medicine

Programme
"Infectious Diseases: prevention and control (MSc)"

5 June 2018

The School of Medicine of the European University Cyprus wishes to express its sincere gratitude to the *External Evaluation Committee* for the evaluation of the postgraduate programme ***Infectious diseases: prevention and control (MSc).***

It is with great pleasure that we noted the **positive report** of the *External Evaluation Committee*. Moreover, the recommendations made were welcome and gave us the opportunity to improve our application, as indicated in the points below and in the attached supporting documents.

Please find below our point-to-point responses to the *External Evaluation Report (EER).* Of note, as some recommendations appear in more than one points in the *EER*, our response refers to the initial response, to avoid repetition.

Page 6 of External Evaluation Report (EER). **Consideration should be given to the recruitment of additional teaching personnel as the program grows – at least at lecture level and ideally at higher level with existing teaching and optionally research experience on profile.**

Page 14 of EER. **1.3.1. The number and qualification of the academic personnel is sufficient for most parts of the curriculum. For periods of preparing master studies with higher time requirements available academic personnel may be too few.**

We agree that addition of new faculty should meet increasing student numbers, should the need arise. Please note that two faculty of the program (Prof. Papaparaskevas and Dr. Efstathiou) are employed as scientific collaborators for the purposes of this program.

In 2018, we recruited two additional Infectious Diseases specialists (Prof. Tsiodras and Dr. Vasilogiannakopoulos) and one Microbiologist (Dr. Alexandrou) as scientific collaborators (**CVs attached in supporting document 1 of Appendix I**).

In addition, the School of Medicine and the School of Sciences has opened positions for two full time academics in the disciplines of Internal Medicine and Microbiology, respectively (attached in supporting documents **2a & 2b of Appendix I**). Both will contribute to the current program as well.

Page 6 of EER. **The only concern is the practical research related training, which should come earlier.**

Page 8 of EER. **Research methods module should be moved to the first year of the program and academic supervision commences it this point.**

Page 15 of EER. **2.1.6 It is crucial that the research methods module is moved to year one which gives also more time to develop scientific competence until the end of the program and select your supervisor for the master thesis.**

We thank the committee for this significant recommendation, which is now incorporated in the course syllabi as follows: (**see revised course syllabi in Appendix II**)

- IPC612.Research methods in infectious diseases is now a compulsory course, and moved to the first semester of studies (**pages 4, 5 & 18 of Appendix II**).
- We have merged the first semester courses "Infection prevention and control: basic principles" with "Infection prevention and control in special units and populations", into one course, now renamed "IPC610. Infection prevention and control: essentials in healthcare" (**pages 4, 5 & 12 of Appendix II**).

In addition, to keep current with new developments in the field, we have added a new elective course "IPC633.Current issues in Infection prevention and control" (**pages 4, 5 & 40 of Appendix II**).

Page 6 of EER. **Nevertheless, there are some gaps in the program including ethics, gender, biomarkers, bioinformatics, and hygiene. These points could be easily incorporated into the existing modules.**

Page 8 of EER. **Inclusion of the topics GDPR, Biomarkers, Bioinformatics, Ethics, Hygiene, Gender.**

Page 14 of EER. **1.3.2 We would suggest to include more expertise in hygiene, biomarkers, ethics, and bioinformatics. These topics are covered in the program but should be stressed more.**

Page 15 of EER. **2.1.4 see 1.3.2.**

These suggestions are now adopted and all points are now included in the Course descriptions of the syllabi:

- IPC610. Infection prevention and control: essentials in healthcare (ethics, gender, hygiene) (**page 12 of Appendix II**).
- IPC611.Essentials of Microbiology in Infection Prevention and Control (biomarkers) (**page 16 of Appendix II**).
- IPC613.Epidemiology of Infectious Diseases (bioinformatics, ethics) (**page 20 of Appendix II**).
- IPC622.Multidrug resistant organisms: public health implications and control (biomarkers) (**page 26 of Appendix II**).
- IPC623.Design of a surveillance system, collection and Interpretation of Surveillance Data (ethics, bioinformatics) (**page 28 of Appendix II**).
- IPC 624.Occupational health and safety in healthcare and communication issues in public health emergencies (ethics) (**page 30 of Appendix II**).

Page 7 of EER. **With the development of the masters studies a research informed teaching approach needs consideration at a minimum. In addition, there should be a clear distinction between learning and research labs and work places. That should be in place if the research activity shall grow. On the hand, we recommend to not pursue establishing a PhD program because of the major investment into research capabilities required.**

Page 20-21 of EER. 3.1.1 & 3.1.2 There is a lack of research capacity building including essential infrastructure and expertise. We do not recommend focusing on building up this capacity for this program as the focus is and should remain on teaching. Nevertheless, academic personnel should be aware of contemporary research developments.

Page 20-21 of EER. **3.1.5 We don't recommend to build up this capacity. We are also skeptical concerning establishing a PhD program in the future as this would require a major leap and commitment.**

This is indeed a major concern for the University. With the recent establishment of a new laboratory and the completion of an additional research laboratory by the end of July, 2018, both faculty and postgraduate students will have a dedicated space and time for their research activities independent of their teaching load.

Page 8 of EER. No doctoral programs proposed and not recommended because of missing research capabilities and resources for competitive activities.

We agree and confirm that there are no immediate plans to develop a PhD program.

Page 8 of EER. **The "presentation" component of the thesis committee includes a defense of the master thesis – this should be defined more explicitly as it justifies the weighing of this evaluation for the overall assessment**

All these recommendations are now incorporated in the relevant revised syllabi (**IPC690 in page 42 of Appendix II**). Of note, specific criteria apply to the evaluation and assessment, as described in the Guide to master thesis, that was submitted with the initial application.

Page 8 of EER. **Consider and clarify development of an external advisory board to include local industry**

External Advisory Board is planned and will be established upon commencement of the program. Please refer to the attached proposed advisory board and affiliations (**supporting document 3 of Appendix I**).

Pages 12-13 of EER. **1.1.4.2 The library has a decent stock of literature including access to scientific journals, although key literature is still missing (BMJ will be included soon)**

Pages 12-13 of EER. **1.2.7 The main shortcoming is the underequipped library and limited access to scientific journals (BMJ will become available only recently)**

The seven major universities of Cyprus have created CALC (Cyprus Academic Libraries Consortium) a non-profit company that acts on behalf of all university libraries. A list of all databases and editorial offices in the field of Medicine where we have a subscription (with distance availability through MyAthens) is listed below.

Indicative high-ranking journals of the field that are freely available through MyAthens include "*BMJ*", "*Lancet Infectious Diseases*" (and the complete series of *Lancet* journals), "*Infection Control and Hospital Epidemiology*", "*Epidemiology and Infection*", "*International Journal of Antimicrobial Agents*", "*Clinical Microbiology and Infection*", and "*Journal of Hospital Infection*".

- Access Medicine by McGraw-Hill
- Access Physiotherapy by McGraw-Hill
- Cambridge University Press
- Clinical Access by McGraw-Hill
- BMJ Learning and BMJ.com
- Cochrane Library
- Dynamed Plus
- EBSCO: AHFS Consumer Medication Information, CINAHL Plus with fulltext, Health Source Consumer Edition, Health Source Nursing/Academic Edition, MEDLINE complete
- Gale Cengage: Health and Wellness Resource Center
- Lexicomp
- Nature.com
- Palgrave/Macmillan Journals
- Proquest: Biology Database, Family Health Database, Health and Medical Collection, Health Management Database, Nursing and Allied Health Database, Public Health Database
- Sage Premier Journals

- ScienceDirect (Complete Freedom Collection)
- Springer Journals
- Taylor and Francis

Page 15 of EER. **2.1.1 Employability of 74% overall seems not very impressive. We advise to define more specifically possible future areas of employment and align these fields with small adaptation of the focus of the program. This may be also helpful for advertising of the program to the outside.**

Page 19 of EER. **2.6.1 & 2.6.2 we recommend doing a market analysis for this question.**

Our University prides in achieving 78% employability rate within 6 months of graduation, in areas directly related to the acquired degree.

As presented and discussed during the meeting with the External Evaluation Committee, the need for specialists appropriately trained in infection prevention and control (IPC), is now recognized as a public health priority by the WHO, CDC, ECDC, ESCMID, and other international organizations. These specialists are needed in key management positions in the health sector, in infection control teams and administrative positions of healthcare settings, in public health institutions, research organizations, and the academia.

Several countries are now establishing or working towards the establishment of national policies in IPC, but these policies are either inadequately or incompletely implemented, as shown in recent surveys. On a European level, staff shortage, lack of culture and awareness, and limited educational initiatives, are demonstrated by the ECDC-commissioned TRICE project, the PROHIBIT study, the ECDC point prevalence study of healthcare-associated infections, the newly European Society of Clinical Microbiology and Infectious Diseases (ESCMID)-appointed European Committee on Infection Control (EUCIC), and the Association of Schools of Public Health in the European Region (ASPHER). In particular, South and East Europe suffer from low numbers of IPC-trained personnel, including infection control nurses and physicians, lack of national education initiatives, and limited implementation of IPC policies.

In Cyprus, sporadic efforts to address this, include local initiatives to train infection control link nurses in public hospitals and the rather outdated publication of certain best practices recommendations from the Ministry of Health (such as prevention of catheter-associated bloodstream infections and urinary tract infection), but a national implementation policy and a national public health agency don't exist. Additionally, the new healthcare system in Cyprus which is planned to be implemented in 2019, will require the establishment of a national IPC-related policy and the employment of new IPC staff in all hospitals (both public and private) at an internationally acceptable ratio (ie.1 IPC nurse per 200 beds and 1 IPC doctor per 400-500 beds). Similar needs exist in Greece and the Balkans, where understaffing is recognized, and despite the publication of national IPC policies, these are not homogenous, are often hard to trace, and there is complete lack of implementation.

In addition, the Southeastern Mediterranean region is a hub between three continents, with constant population movements of both immigrants (both legal and illegal) and animals.

These phenomena have led to the confirmation of the importation of infections and outbreaks, such as zoonoses, foodborne illnesses, multidrug-resistant tuberculosis and viral infections. Implementation of appropriate policies on preventive examinations, record keeping, health sanitation and health prevention (eg. vaccinations, isolation), are absolute and immediate needs which are currently only sporadically implemented by voluntary groups and non-governmental organizations.

Another important point is the educational character of Cyprus, which currently has eight Universities with more than 30,000 students (with a significant proportion being international). Furthermore, Cyprus carries the highest rate of working-age citizens that have completed higher education in Europe, whereas the current government has set the goal of further increasing its higher-education capacity. This will undoubtedly set the need for future position openings in the academia.

Finally, research in the field of prevention and control of infectious diseases is continuously growing, as is evident by the increasing number of scientific fora and related publications in the literature. The field of infectious diseases is a complicated area, which intertwines experimental, laboratory, epidemiological and clinical research. Several research and training grant opportunities can be sought from established organizations such as the ESCMID (eg. with the Observership or the Research grants programs), ASPHER (eg. the ASPHER fellowship program), ECDC (eg. various tenders and calls) and FEMS (which offers awards and grants); from local organizations such as the Cyprus Research Promotion Foundation (eg. the Excellence or Didaktor call); whereas the increasing collaboration of EUC with the industry (including local businesses, the local pharmaceutical industry, and the Microsoft Innovation Center) is expected to provide further opportunities for research.

The proposed MSc program is designed to cover all core competencies required for an IPC specialist, according to the domains published by the ECDC. In addition, based on applicant background and interests, it is foreseen that the courses and Master Thesis component, can be used as a means of focusing research and practice on specific areas of prevention and control of infectious diseases, including: advanced laboratory diagnostics, epidemiology and surveillance of infections and/or outbreaks, antimicrobial stewardship, hospital hygiene and infection control, food safety and prevention of foodborne infections, human biomonitoring and assessment of environmental risk of infections, and travel-associated infections.

Page 19 of EER. **2.5.1 It is not entirely clear how these collaborations will be established including visiting scholars from other academic institutions, ECDC, field studies for master thesis etc.**

According to University policy, visiting experts are recruited for teaching of specialized content. This is also the case in the current MSc program, where in addition to teaching, visiting experts can co-supervise theses in collaboration with EUC faculty. As part of our school activities, students are also accommodated and trained in our visiting faculty's departments and research labs, whereas academic exchanges are organized as part of Erasmus+ agreements, through cooperation within COST networks, or within the ASPHER/ECDC cooperation agreement (as EUC has been recently appointed to coordinate a relevant ASPHER/ECDC action plan for Cyprus). Furthermore, the program Advisory Board which includes esteemed experts of the field from abroad, not only

contributes to the improvement of the program through their expertise, but also creates avenues for student and faculty exchange, and supervision of research theses.

Page 20-21 of EER. **3.1.7 There seems to be a lack of implementation policy to establish collaborations with external funding sources like pharmaceutical industry.**

In fact, a number of Memorandums of Understanding have been signed with numerous academic, research and industry partners for joint training, practice and research projects as the attached indicative lists illustrate (**supporting documents 4a & 4b of Appendix I**).

We thank you once again and remain at your disposal.

Prof. Elizabeth Johnson
Vice Dean, School of Medicine

Date: 5 June 2018

Attachments:

Appendix I.

1. CVs of newly employed faculty in the School of Medicine (Tsiodras, Vasilogiannakopoulos, Alexandrou).
2. Posted openings for a. Internal Medicine/Pathophysiology and b. Microbiology.
3. Names and affiliations of Program Advisory Board members.
4. a. List of EUC Memorandums of Understanding (MoU) and b. School of Medicine Collaborating health centers.

Appendix II. Revised syllabi.

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APPENDIX I

- **1**. CVs (Prof. Tsiodras, Dr. Vasilogiannakopoulos, Dr. Alexandrou)
- **2. a and b** Academic Positions
- **3**. Advisory Board Members
- **4. a and b** Memorandum of Understandings

5 June 2018

Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Sotirios Tsiodras**
Address	24 Agias Barbaras street, 14451 Metamorfosis Athens (Greece)
Telephone(s)	Mobile +30 693 2665820
Fax(es)	
E-mail(s)	
Nationality	Greek, Australian
Date of birth	13.10.65
Gender	Male

Desired employment / Occupational field — **Physician –Scientist MD Anderson Cancer Center / Infectious diseases specialist**

Work experience

Dates	22.7.91 - 22.2.93
Occupation or position held	Medical doctor - staff of the armed forces
Main activities and responsibilities	Physician - worked in several army campuses across Greece (obligatory for all males in Greece) and for almost 6 months in the 401 Army General Hospital in Athens – Honorab
Name and address of employer	401 Athens Army General Hospital 138 Mesogeion Ave and Katechaki, 11525 Athens (Greece)
Type of business or sector	Human health and social work activities
Dates	16.7.93 - 5.4.94
Occupation or position held	Medical doctor
Main activities and responsibilities	Health care services in rural area (12 months of service obligatory in Greece before medical residency). Fulfilled almost 8 and a half month of service (due to departure to the United States for medical residency).
Name and address of employer	Astros Health Care Center 22001 Mesogeion Astros, North Kynouria (Greece)
Type of business or sector	Human health and social work activities
Dates	1.7.94 - 30.6.95
Occupation or position held	Intern in Internal Medicine
Main activities and responsibilities	Internship in Internal Medicine
Name and address of employer	Albert Einstein Medical Center, 5501 Old York Road, PA 19141 Philadelphia (United States)
Type of business or sector	Human health and social work activities
Dates	1.7.95 - 30.6.97
Occupation or position held	Senior resident in Internal Medicine
Main activities and responsibilities	Senior resident in Internal Medicine
Name and address of employer	Albert Einstein Medical Center 5501 Old York Road, PA 19141 Philadelphia (United States)
Type of business or sector	Human health and social work activities
Dates	1.7.97 - 30.6.99

Occupation or position held	Fellow in Infectious Diseases
Main activities and responsibilities	Felowship in Infectious Diseases
Name and address of employer	Beth Israel Deaconess Medical Center, Harvard Medical School 330 Brookline Avenue, MA, 02215 Boston (United States)
Type of business or sector	Human health and social work activities
Dates	1.7.99 - 30.6.01
Occupation or position held	Fellow in Infectious Disease, Fellow in Clinical Investigator program
Main activities and responsibilities	Fellowship in Infectious Diseases, fellowship in CInical Investigation
Name and address of employer	Beth Israel Deaconess Medical Center, Harvard Medical School 330 Brookline Avenue, MA 02215 Boston (United States)
Type of business or sector	Human health and social work activities
Dates	21.8.01 - 2.12.01
Occupation or position held	Medical doctor
Main activities and responsibilities	Completion of rural area service (12 months service is obligatory in Greece)
Name and address of employer	Olof Palme Messini Health Center 24200 Messini, Messinias (Greece)
Type of business or sector	Human health and social work activities
Dates	25.2.01 - 20.10.11 (Current position)
Occupation or position held	Infectious Diseases Specialist, Chief Scientist strategic planning office
Main activities and responsibilities	Risk assessment and management, Infectious Disease guidance, Scientific support in the office of the director and the office of the president, Strategic planning for the organization, Press Representative
Name and address of employer	Hellenic centre for Disease Control and Prevention (KEELPNO) 3-5 Agrafon street, 15123 Marousi, Athens (Greece)
Type of business or sector	Human health and social work activities
Dates	8.12.03 - 11.10.09
Occupation or position held	Instructor in Internal Medicine and Infectious Diseases
Main activities and responsibilities	Instructor in Internal Medicine and Infectious Diseases, University of Athens Medical School, Athens Greece
Name and address of employer	University of Athens Medical School 75 Mikras Asias Street, 11527 Goudi, Athens (Greece)
Type of business or sector	Education
Dates	12.10.09 - 20.10.11 (current position)
Occupation or position held	Assistant professor of Internal Medicine and Infectious Diseases
Main activities and responsibilities	Assistant professor of Internal Medicine and Infectious Diseases, University of Athens Medical school
Name and address of employer	University of Athens Medical School 75 Mikras Asias street, 11527 Goudi, Athens (Greece)
Type of business or sector	Human health and social work activities

Education and training

Dates	23/09/1984 - 25/03/1991
Title of qualification awarded	Medical Doctor degree
Principal subjects / occupational skills covered	Medical doctor diploma
Name and type of organisation providing education and training	Athens University Medical school (University) 75 Mikras Asias street, 11527 Goudi, Athens (Greece)
Dates	1.7.94 - 30.6.97
Title of qualification awarded	Residency in Internal Medicine
Principal subjects / occupational skills	Senior resident in Internal Medicine

covered	
Name and type of organisation providing education and training	Albert Einstein Medical Center (Hospital) 5501 Old York Road, PA 19141 Philadelphia (United States)
Dates	1.7.99 - 30.6.01
Title of qualification awarded	Master's degree in Medical Sciences
Principal subjects / occupational skills covered	Fellow in Clinical Investigator program
Name and type of organisation providing education and training	Beth Israel Deaconess Medical Center-Harvard Medical School-MIT Division of Health Sciences and Technology (Hospital-University) 330 Brookline Avenue, MA 02215 Boston (United States)
Dates	1.7.99 - 8.11.02
Title of qualification awarded	PhD degree
Principal subjects / occupational skills covered	Clinical investigation
Name and type of organisation providing education and training	University of Athens Medical school (University) 75 Mikras Asias street, 11527 Goudi, Athens (Greece)

Personal skills and competences

Mother tongue(s): **Greek**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user

(*) Common European Framework of Reference (CEF) level

Social skills and competences

I am an organised person and very professional and I have a good ability to pursue target oriented goals in my work environment. I can form synthetic approaches in dealing with complex issues in Public Health and have developed a problem solving attitude. Due to my communication potential I was assigned the responsibility of adequate and appropriate response to the national media and press and I have served in this capacity continuously during my job with KEELPNO and the ministry of Health in Greece. I have been able to establish and maintain good working relations with people of different national and cultural backgrounds during my training in the US as well as during the representation of my country in international meetings. Although I am quality driven and very conscientious I like team work.

Organisational skills and competences

I have developed expertise in project writing, budgeting, logical framework design and reporting, as well as consultancy to governmental programme management both in my roles as an academic teacher and as a governmental official in my home country, Greece.

I served as the physician in chief of the 2004 Athens Olympic games syndromic surveillance system.

I have participated as a member of the organizing committee in several scientific conferences at a National level (e.g. infectious diseases, epidemiology, travel medicine).

I together with colleagues from KEELPNO and the Ministry of Health coordinated the response in several missions and responses to outbreaks in my country (MDR Tuberculosis, SARS alerts, myocarditis outbreak, pandemic influenza, HIV in IDU outbreak, West Nile fever outbreaks, P. vivax malaria outbreak). I have participated in several risk assessment committees and procedures regarding such Public Health activities.

I participate in several national committees including the hemorrhagic viruses committee and I am a member of the National Vaccine Committee.

I have actively participated in the activities of the strategic planning office of KEELPNO as its chief scientist and I am a member of the team that drafts the annual report and account of activities for the entire organization.

I have been involved as chief scientist (or deputy chief) in several projects requiring expertise from people from other fields i.e. non physicians such as the drafting of educational material about infectious diseases for the general public and for children.

I was a member of the team that drafted the 2 pandemic influenza response plans for Greece (first completed in 2005).

I have actively participated in the organization of the educational activities and annual meetings of the Infectious Diseases Society of Greece as well as the Greek Society for Infection Control.

I am an elected member of the board of directors for the Greek Society for Infection Control.

I am representing my country as an member in the ECDC Advisory Forum.

Technical skills and competences

Board Certified in both Internal Medicine and Infectious Diseases in the US (re-certified in US in December 2012) and Greece (permanent certification). Extensive clinical physician experience in all aspects of Internal Medicine and Infectious Diseases including HIV care.

ACLS certified (thrice during US training)

As a part of my research I was responsible for setting up and maintaining in-house data bases with patient data.

As part of my research I have mastered basic molecular techniques (e.g. culturing of bacteria, DNA extraction, plasmid preparation, PCR, RT-PCR, agar electrophoresis, Southern blot)

Computer skills and competences

Knowledge and operating of PC software and more specifically:

Editing: Microsoft Word, Microsoft PowerPoint

Database handling: Microsoft Access, Microsoft Excel

Statistical analysis: SPSS software

Driving licence(s)

Civilian licence (Category B, non professional)

Additional information

I have delivered more than 300 oral presentations in national and international conferences and meetings.

I have participated in the drafting and writing of more than 150 Scientific papers already published in peer-reviewed journals (list obtained from NCBI Pubmed database). These papers have received more than 3000 citations.

CURRICULUM VITAE

Antonis Vasilogiannakopoulos MD PhD

1. **Contact**

Hospital office : Henry Dunant Hospital
107, Messogion str; Athens 11526
tel: +30- 2106972966
e-mail:avasilogiannakopoulos@dunant.gr
Private office : 210, Patission str;
tel/fax: +30-2108663354
mob: 6972-150266
e-mail:nisvas@otenet.gr, antonvasilo@gmail.com

2. **Hospital appointments**

2006-contin. Director of 2nd Internal Medicine and Infectious Diseases department Henry Dunant Hospital
2009- 2015 Head of Medicine departments Henry Dunant Hos.
2003-2006 Consultant in Henry Dunant Hospital
2000-2003 Attendant in Henry Dunant Hospital
1998-2000 Attendant on infectious diseases in Evagelismos Hospital,

3. **Academic appointments**

2012-2016 Member of the Management Board of ECDC (European Center for Diseases Control) representative of Greece in Stockholm Sweden

4. **Graduate and postgraduate education**

1998-2000 PhD, Athens University, School of Medicine
1980-1986 MD, Patras University, School of Medicine

5. **Professional training**

1995-7: Clinical and Research Fellow in Infectious Diseases, VA Medical Center San Diego, California
1997: Clinical and Research fellow in Geographic Medicine and Tropical Diseases, VA Medical Center, San Diego, California
1992-5: Senior resident in Internal Medicine, Evagelismos Hospital Athens, Greece
1994 AIDS unit, Evagelismos hospital Athens
1991-1992 Intern resident in Internal Medicine Egio, Achaia
1989-1990 Duty in Skala Lakonias
1988-1989 Junior resident in Medicine, ΝΙΜΤΣ hospital Athens
1987-1988 Physician, officer in the Greek Army, National Military Service

6. **Other professional experience**

2014-cont. President of the organizing committe Henry Dunant all year round continued Educational Program, for physicians and medical students supported and granted with CME credits
1999 - cont. Private Practice (Internal Medicine-Infectious Diseases)

7. **Teaching experience**

2005-2007 Lecturer of Epidemiology in the Medical School of Thessaly , Larissa (ΠΔ407/1980)
2004 Instructor 3rd ESCMID School of Clinical Microbiology and Infectious Diseases, Athens 2004
2002 Instructor in Greek National School of Public Health for methodology of investigation and foodborn and waterborn outbreaks
2001 Instructor in Greek National School of Public Health for migrant populations

8. Research thesis

2000 « Comparative efficacy of various forms of Amphotericin B on an Aspergillus fumigatus experimental Endocarditis model» Medical School, University of Athens, Greece.
Mentor: Dr. Georgios Chalevelakis , Professor of Medicine, Athens University School of Medicine.

9. **Honors**

1982-3: Fellowship of Hellenic State Foundation
1995 -6: Academic grant by Alpha Bank

1996-7: University of California San Diego fellowship
1997-8: Veterans Medical Research Foundation at San Diego, fellowship

10. Memberships

Hellenic Infectious Diseases Society
Hellenic Society for Travel Medicine and Tropical Diseases
American Society of Microbiology (ASM)
Infectious Diseases Society of America (IDSA)
New York Academy of Sciences

11. Licensure and Certification

2000 Certified Diplomate in Infectious Diseases
1995 Certified Diplomate in Internal Medicine
1991 USA Educational Commission for Foreign Medical Graduates (ECFMG) certificate
1987 Medical Licence in Greece

12. Committees

5/2014 –5/2016 Elected President of the Scientific Committee of Henry Dunant Hospital
10/2012 – cont. President, Infection Control Committee, "Henry Dunant" Hospital, Athens, Greece
05/2003 - cont. Infection Control Committee, "Henry Dunant" Hospital, Athens, Greece
06/2004 - 06/2010 External scientific partner, National Organization for Drugs, Athens, Greece

13. Publications

1. Hense M, A Vassiloyanakopoulos, J Fierer VA San Diego Healthcare System and Department of Medicine, University of California San Diego "The importance of polymorphonuclear leukocytes in mice infected orally with Salmonella dublin" American Society of Microbiology General meeting, April 1999 Portland, Oregon
2. A Vassiloyanakopoulos and J Fierer VA San Diego Healthcare System and Department of Medicine, University of California San Diego " PMNs are the first line of defense against Salmonella with virulence plasmids while macrophages are their place of refuge" 1997 meeting on Microbial Pathogenesis and Host Response, September 1997 Cold Spring Harbor , NewYork
3. Vassiloyanakopoulos A. and J Fierer VA San Diego Healthcare System and Department of Medicine, University of California San Diego "Crucial role of polymorphonucear leykocytes (PMN) in resistance to virulent Salmonella dublin infections in mice" San Diego Medical Group Annual Meeting ,June 1997, Scripps Institution of Oceanography, San Diego California.
4. Vassiloyanakopoulos A.and J. Fierer VA San Diego Healthcare System and Department of Medicine, University of California San Diego "Crucial role of polymorphonuclear leukocytes (PMNs) in resistance to virulent Salmonella dublin infection in mice" 97 th American Society of Microbiology General Meeting , May 1997 Maimi Beach , Florida
5. Saroglou G., E Mylonakis, A Vassiloyanakopoulos , A Argyropoulou, M Lazanas, E Kytea,G Chalevelakis, O Paniara, S Raptis "Prophylactic and therapeutic efficacy of liposomal Amphotericin B in experimental Aspergillus Fumigatus endocarditis" 3rd International Symposium on Modern concepts in endocarditis. Boston 1995, in the book of abstracts
6. Vassiloyanakopoulos A.,E Mylonakis, J Butsikakis, E Kytea, A Argyropoulou, M Lazanas, G Chalevelakis , G Saroglou and S Raptis: "Therapeutic efficacy of Amb and L-Amb in the Aspergillus Fumigatus rabbit endocarditis model" In the programm and Abstracts of the 6 th International Congress for in Infectious Diseases, Prague April 1994.
7. Vassiloyanakopoulos A, Falagas ME, Alamani, Michalopoulos A Henry Dunant Hospital "Aspergilus fumigates tricuspid native valve endocarditis in a non-intravenous drug user" J Med Microbiol. 2006 May;55(Pt):635-8
8. German V, Vassiloyanakopoulos A,Sampaziotis D, Giannakos G "Autoimmune hepatitis in an HIV infected patient that responded to antiretroviral therapy" Scand J Infect. Dis. 2005;37(2):145-51
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15. **Foreign languages**: English, French

Maria Alexandrou, MD, PhD
Specialist Microbiologist-Biopathologist
Head of Microbiology Department
Larnaca General Hospital

Updated: 30/10/2017

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Telephone(s)	(357) 24 360464 Mobile: (357) 99 477147 mralexandrou@gmail.com
E-mail	
Nationality	Greek Cypriot
Date of birth	28 May 1961

Desired employment / Occupational field

Work experience

Name and address of employer	**Medical and Public Services, Ministry of Health,**
Type of business or sector	**Government.** Public Sector
August 2012 - Present	**Head of the Microbiology Department in Larnaca General Hospital**
Main activities and responsibilities	- Supervision of the microbiology laboratory's daily works including: cultures of clinical biological samples, direct microscopy, parasitological and immunological tests, microbial identification and antibiotic susceptibility testing - Establishment and training of laboratory staff on new laboratory techniques based on international guidelines (SOP´S) - Implementation and supervision of the Quality Control Systems and biosafety rules. - Supervisor of the European Research programs on antimicrobial resistance surveillance (EARSS, CDIFF, WHONET) - Member of the nosocomial infection control committee and Legionella's prevention and control committee of the hospital - Training the laboratory personnel and junior doctors in medical microbiology - Development and execution of plans for the Microbiology department
Name and address of employer	Medical and Public Services, Ministry of Health, Government.

(Concurrent with Head of Microbiology Department):	
January 2017-May 2017 **January 2016-May 2016**	**Scientific Collaborator at the School of Medicine** **European University, Nicosia, Cyprus in the field of Medical Microbiology** Teaching of Medical Microbiology (Lectures and Practicals) including Bacteriology, Virology, Mycology and Parasitology to 3nd year students of the Medical School of the European University of Cyprus
October 2017-Present	**Clinical Coordinator for the Medical students of the EUC-Cyprus at Larnaca General Hospital, Cyprus**
August 2014 – Present	**Scientific Collaborator and Clinical Instructor-School of Medicine European University,Cyprus**
Main activities and responsibilities	- Class presentations - Technical application in the labs of Larnaca General Hospital - Assistance of students on personal enquiries and assignments
Name and address of employer	Medical and Public Services, Ministry of Health, Government, in collaboration with EUC-Cyprus
November 2003 – August 2012	**Head of Microbiology Department in Limassol General Hospital**
Main activities and responsibilities	As described above
Name and address of employer	Ministry of Health Cyprus, Limassol General Hospital, Microbiology Dept, 3304, Limassol, Cyprus
Type of business or sector	Medical and Public Services, Ministry of Health, Government.
1991-2003	**Medical Laboratory Director**
Main activities and responsibilities	Organization and operation of the Medical Laboratory under the departments of Microbiology, Biochemistry, Hematology, Immunology, Serology.
Name and address of employer	Self-employed, 68 Timayia Ave , 3061, Larnaca, Cyprus
Type of business or sector	Private sector

International activities/skills

11-13 Oct 2017

Representative of the Ministry of Health-Cyprus and Facilitator Instructor in the "Workshop of the Laboratory Diagnosis of Diphtheria"

Name and type of organization providing education and training

WHO Regional Office for Europe

2009-2011

Representative of Cyprus for Antimicrobial Resistance in the European Union

Title of qualification awarded

AMR-NFP Antimicrobial Resistance National Focal Point

Principal subjects and occupational skills covered

Expert in antimicrobial Resistance and in Antibiotic Consumption

Participation in European Meetings and Conferences as AMR-NFP, representative of Cyprus

- "Parallel and partly joint meeting of Chief Medical Officers, Chief Nursing Officers and National Antimicrobial Resistance Focal Points and Competent Bodies for Communications" , Budapest, Hungary , 21 and 22 March 2011.
- 8th Meeting of National AMR Focal Points Madrid (Spain), 2-4 June 2010
- Antimicrobial Stewardship: Measuring, Auditing and Improving , 8-10 April 2010, Vienna, Austria
- 7th Meeting of National AMR Focal Points, London, 19 & 20 October 2009.

Name and type of organization providing education and training

ECDC (European Center for Disease Prevention and Control) in collaboration with the Ministry of Health, Cyprus

Education and training

2010-2014

Doctoral degree - PhD in Medical Microbiology
"Clinical investigation and evaluation of a serological Candida antigen detection method in early diagnosis of systemic Candidiasis, in a tertiary hospital "

Name and type of organization providing education and training

School of Medicine, National and Kapodistrian University of Athens, Greece

1987-1991	
Title of qualification awarded	**Medical Speciality : Clinical Microbiologist – Biopathologist**
Principal subjects	Medical specialty in Clinical Microbiology - Biopathology, including, Bacteriology, Virology, Parasitology, Immunology, Biochemistry and Hematology
Name and type of organisation providing education and training	"Geniko Laiko" Public Hospital, **School of Medicine, National and Kapodistrian University of Athens, Greece**
1980-1986	1987-1991
Title of qualification awarded	Specialist Microbiologist **Doctor of Medicine** **General Practitioner, MD** General: Specialization on the Laboratory Medicine , principally on Microbiology (including virology, parasitology) and secondary on Immunology, Biochemistry and Hematology
Name and type of organization providing education and training	"Geniko Laiko" Public Hospital, Medical Institute, Athens University, Greece **School of Medicine, National and Kapodistrian University of Athens, Greece**

Personal skills and competences

Mother tongue(s) **Greek**

Other language(s) **English as Second Language**

Self-assessment	Understanding		Speaking and communication		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	Fluent	Fluent	Excellent	Excellent	Fluent

Social skills and competences

Participation in various committees and councils in a spirit of collaboration and excellent communication:

- Parents-Teacher association of my children's school Charity activities

Organizational and Technical skills and competences

- Head of the two Nosocomial Microbiological Laboratories in Limassol and in Larnaca hospital (as described above)
- Technical and educational instructor of Medical Microbiology in Limassol and in Larnaca General Hospital for the laboratory staff, junior doctors, nursing staff and students of Medical School of the EUC

Medical Associations and Societies or Institutes participating both as a speaker and/or an organizer in Local, National or International Medical Conferences Seminars and Workshops

National Medical Associations

- Pancyprian Medical Association (member)
- Famagusta Medical Association "Galinos" (member of the council)
- Cyprus Society of Infections and Chemotherapy (Secretary of the council)

European and International medical Associations

- EUCIC –European Committee in Infection Control (member of the Committee as Representative of Cyprus)
- European Society of Clinical Microbiology and Infectious (member)
- Mediterranean Institute for Study and Training in Prevention and Treatment of Infectious Diseases (member of the council)
- International Society for Infectious Diseases (member)
- Hellenic Association of Medical Fungal Infections.

Presentation skills

Presentations in several Conferences Seminars and workshops in Cyprus and abroad

Computer skills and competences

Excellent knowledge of Microsoft Word, PowerPoint and respectable use of Excel.

Personal interests

Amateur painter and pianist. Passion for writing and travelling.

RESEARCH

European Research Programmes:

- Researcher partner in the research project entitle "Epidemiological Surveillance in colorectal cancer in Cyprus" . Host Organization: Ministry of Health, Cyprus (20014-present, ongoing)

- Researcher partner in the research project entitled "Epidemiological Surveillance of multidrug-resistant strains in Public hospitals in Cyprus with the use of the WHONET program". Host Organisation : Cyprus Society of Chemotherapy and Infection, sponsored by the Research Promotion Foundation, National Framework programme 2005-2008.

- Researcher partner in the European Research Programme INTERREG III, 2000-2006, within the CBC of Greece-Cyprus on " Nosocomial Infections Cross- border Surveillance Network, Cyprus and Crete".

PUBLICATIONS

- Nasopharyngeal Pneumococcal Carriage among Healthy Children in Cyprus Post Widespread Simultaneous Implementation of PCV10 andPCV13 Vaccines. Adamos Hadjipanayis, Elisavet Efstathiou, Maria Alexandrou, Loukia Panayiotou, Chrystalla Zachariadou, Panayiotis Petrou, Vasiliki Papaevangelou. PLOS ONE | DOI:10.1371/journal.pone.0163269 October 5, 2016.

- Device-associated infections in the intensive care units of Cyprus: results of the first national incidence study. A. Gikas • M. Roumbelaki • D. Bagatzouni-Pieridou M. Alexandrou ,V. Zinieri, I. Dimitriadis, E. Kritsotakis. Infection (2010) 38:165– 171

- Maria Koliou, MD, PhD, Yiannis Ioannou, MD, Androulla Efstratiou, PhD, Nasia Hannidou, MSc, Vaso Pieri, BSc, Maria Alexandrou, MD, and Elpidoforos S. Soteriades, MD, ScD. Circulating Serotypes and Antimicrobial Sensitivity of *Streptococcus pyogenes* isolates in Cyprus. Clin Microbiol Infect. 2007 Jun;13(6):645-7. Epub 2007 Mar22

- Evaluation of Candida antigen detection by a latex agglutination test in the diagnosis of invasive Candidiasis. G. Petrikkos, M. Alexandrou, A. Avlami Proceedings of the VII Mediterranean Congress of Chemotherapy, Barcelona Spain, May 20-25 1990. *Journal of Chemotherapy, Supp.* 4, Vol. 3: 423 - 425, 1991 (Eds. R. Gumez-Lus, G. Cocuzza).

- Fungemia in a general hospital: Frequency, characteristics and predisposing factors.G. Petrikkos, M. Alexandrou, G. Stamos, M. Tzivra and A. Avlami. *Trends in the Management of Systemic Fungal Infections Nijmegen The Netherlands*, Sept. 5-7, 1991, (Poster 4: 52).

- ***As member of the European New Delhi metallo-beta-lactamase 1 (NDM-1) Survey (ECDC):***
  Struelens M.J., Monnet D.L., Magiorakos A.P., Santos O'Connor F., Giesecke J.,
  The European NDM-1 Survey Participants. *New Delhi metallo-beta-lactamase 1–producing Enterobacteriaceae: emergence and response in Europe.* Euro Surveill. 2010;15(46):pii=19716. Available online: http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19716

- ***As member of the European Antibiotic Awareness Day Collaborative Group(ECDC):***
  Earnshaw S, Mancarella G, Mendez A, Todorova B, Magiorakos AP, Possenti E, Stryk M, Gilbro S, Goossens H, Albiger B, Monnet DL, on behalf of the European Antibiotic Awareness Day Technical Advisory Committee and the European Antibiotic Awareness Day Collaborative Group. *European Antibiotic AwarenessDay: a five-year perspective of Europe-wide actions to promote prudent use of antibiotics.* Euro Surveill. 2014;19(41):pii=20928. Available online:http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=2092

Academic Personnel

HOME

School of Medicine

Academic Personnel

The establishment of the School of Medicine at European University Cyprus has been pivotal to the institution's aims to be part of the country's prominence as a regional educational provider. The organization of the School of Medicine is based on EU directives and international standards, and it has been founded in collaboration with distinguished scholars from Cyprus and abroad. The School of Medicine is characterized by a dynamic learning environment which enables students to develop the necessary skills and attributes required to practice medicine through high teaching methods delivered.

The **School of Medicine** of **European University Cyprus** is seeking to recruit qualified applicants for full-time academic positions at any academic rank in the following areas:

Program of Medicine

Academic rank of Lecturer or Assistant Professor

- Clinical Pharmacology /Therapeutis
- Orthopetics/Anatomy
- Pathology/Histology
- Internal Medicine/Pathophysiology

Academic rank of Associate Professor or Professor

- Cardiovascular Surgery
- Oncology – Radiotherapy

Program of Dentistry

Any academic rank

- Operative Dentistry
- Endodontics
- Prosthodontics
- Periodontology
- Oral Medicine and Pathology
- Biomaterial

Duties and responsibilities:

- Follows the learning and teaching processes as directed by the decisions of the University's Council
- Follows the academic learning model set by the University and delivers the curriculum accordingly
- Supports students in their education at the University
- Uses medical technology and simulation programs to facilitate learning and educational activities
- Collaborates with other University departments that have an impact on students' learning experience and curriculum implementation

Qualifications required:

- Doctorate degree (PhD, holder in the relevant field)
- Technology oriented
- Excellent written and oral communication skills
- Fluency in Greek and English
- Very good interpersonal skills
- Professional demeanor and presentation skills
- Intercultural competences – global mindset
- Willingness to assist and support students
- Dynamic personality driven by innovation
- Team orientated

Former Teaching Experience:

- For the rank of **Lecturer** substantial proof of competence in teaching and research is required
- For the rank of **Assistant Professor** at least 3 years of continuous academic and research experience in renowned academic institutions is required
- For the rank of **Associate Professor** at least 8 years of continuous academic and research experience in renowned academic institutions is required
- For the rank of **Professor** at least 12 years of continuous academic and research experience in renowned academic institutions is required

The qualifications that can substitute the Doctorate for the election and promotion in the field of Medicine are:

- **For the rank of Lecturer: (i)** the candidate holds a post of Lecturer or a higher academic post, in a dentistry specialty of a recognized University, or **(ii)** holds a diploma in Dentistry and a dentistry specialty and at least three years of work experience after obtaining a diploma in Dentistry, at a recognized Dentistry School, or at a recognized Research Institution (Institute) or at a Tertiary Hospital (Hospital).

- **For the rank of Assistant Professor:** the candidate **(i)** holds a post of Assistant Professor or a post of higher rank in a dentistry specialty or a recognized University or a post of Lecturer in a dentistry specialty of a recognized University, having at least three years experience in it, or **(ii)** holds a diploma in Dentistry and a dentistry specialty and at least six years of work experience after obtaining a diploma in Dentistry, at a recognized Dentistry School, or at a recognized Research Institution (Institute) or at a Tertiary Hospital (Hospital).

For the rank of Associate Professor: the candidate **(i)** holds a post of Associate Professor or a post of a higher academic rank, in a dentistry specialty of a recognized University or a post of Assistant Professor in a dentistry specialty of a recognized University, having at least four years experience in it, or **(ii)** holds a diploma in Dentistry and a dentistry specialty and at least ten years of work experience, after obtaining a diploma in a recognized Dentistry School or at a recognized Research Institution (Institute) or Tertiary Hospital (Hospital).

For the rank of Professor: the candidate **(i)** holds a post of Professor, in a dentistry specialty of a recognized University or a post of Associate Professor in a dentistry specialty of a recognized University, having at least four years experience in it or **(ii)** the candidate holds a diploma in Dentistry and a dentistry specialty and at least thirteen years of work experience after obtaining a diploma in Dentistry, at a recognized Dentistry School or at a recognized Research Institution (Institute) or a Tertiary Hospital (Hospital).

Candidates should submit the following documents:

- Letter of interest
- Curriculum Vitae

- Proof of qualifications
- 2 letters of reference

Applications Submitted:

Please submit, electronically, all required documents to the **Human Resource Department** (hrm@euc.ac.cy) by **Monday, 23 of April 2018.**

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Document 2b

Academic personnel

HOME

School of Sciences

Academic personnel

Department of Health Sciences - Academic Personnel

Department of Life Sciences -

Η Σχολή **Θετικών Επιστημών** του **Ευρωπαϊκού Πανεπιστήμιου Κύπρου** προκηρύσσει θέσεις για Διδακτικό Ερευνητικό Προσωπικό σε οποιαδήποτε ακαδημαϊκή βαθμίδα στα ακόλουθα γνωστικά αντικείμενα:

Τμήμα Επιστημών Ζωής

- Φαρμακογνωσία
- Μικροβιολογία

Καθήκοντα και ευθύνες:

- Ακολουθεί την εκμάθηση και τις διαδικασίες διδασκαλίας, όπως αυτές ορίζονται από τη διεύθυνση της Σχολής Θετικών Επιστημών
- Εφαρμόζει το μοντέλο μάθησης της Σχολής και παραδίδει το πρόγραμμα σπουδών
- Προσφέρει καθοδήγηση στους φοιτητές κατά τη διάρκεια της εκπαιδευτικής τους σταδιοδρομίας
- Εποπτεύει και διευκολύνει τις εκπαιδευτικές δραστηριότητες με τη χρήση της τεχνολογίας

Scientific Collaborator

- Συνεργάζεται με άλλα τμήματα του Πανεπιστημίου και συμβάλει στην εφαρμογή των ακαδημαϊκών προγραμμάτων

Department of Health Sciences - Scientific Collaborator

Προσόντα που απαιτούνται:

- Διδακτορικό δίπλωμα στο συγκεκριμένο γνωστικό αντικείμενο για την θέση του Διδακτικού Ερευνητικού Προσωπικού
- Εξαιρετικές δεξιότητες στη γραπτή και προφορική επικοινωνία
- Πολύ καλές διαπροσωπικές ικανότητες
- Επαγγελματική συμπεριφορά και δεξιότητες παρουσίασης
- Δεξιότητες διαπολιτισμικών ικανοτήτων
- Δυνατότητα καθοδήγησης και στήριξης των φοιτητών
- Δυναμική προσωπικότητα με καινοτόμες ιδέες και ομαδικό προσανατολισμό

Προαπαιτούμενη Διδακτή εμπειρία:

- Για τη βαθμίδα **Λέκτορα** απαιτείται ουσιαστική απόδειξη για επάρκεια στην διδασκαλία και την έρευνα
- Για τη βαθμίδα **Επίκουρου Καθηγητή** απαιτούνται τουλάχιστον 3 έτη συνεχούς ακαδημαϊκής και ερευνητικής εμπειρίας σε αναγνωρισμένα Ακαδημαϊκά Ιδρύματα
- Για τη βαθμίδα **Αναπληρωτή Καθηγητή** απαιτούνται τουλάχιστον 8 έτη συνεχούς ακαδημαϊκής και ερευνητικής εμπειρίας σε αναγνωρισμένα Ακαδημαϊκά Ιδρύματα
- Για την βαθμίδα **Καθηγητή** απαιτούνται τουλάχιστον 12 έτη συνεχούς ακαδημαϊκής και ερευνητικής εμπειρίας σε αναγνωρισμένα Ακαδημαϊκά Ιδρύματα

Οι ενδιαφερόμενοι πρέπει να υποβάλουν τα ακόλουθα:

- Επιστολή στην οποία να φαίνεται το γνωστικό αντικείμενο και η βαθμίδα για την οποία ενδιαφέρονται
- Βιογραφικό Σημείωμα
- Αποδεικτικά στοιχεία των προσόντων τους
- 2 Συστατικές επιστολές

Υποβολή αιτήσεων:

Οι αιτήσεις να υποβάλλονται στο **Τμήμα Ανθρώπινου Δυναμικού** μέχρι τη **Δευτέρα, 23 Απριλίου 2018**, στην ηλεκτρονική διεύθυνση:

hrm@euc.ac.cy

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Document 3

European University Cyprus

Advisory Board Members for MSc Program "Infectious diseases: prevention and control' (MSc)'

Alexander W. Friedrich, Professor of Medical Microbiology and Infection control, University of Groningen, Chair and head of department of Medical Microbiology and Infection Control, University Medical Center Groningen, Netherlands.

Theoklis Zaoutis, Werner and Gertrude Professor of Pediatrics, Professor of Epidemiology, Perelman School of Medicine at the University of Pennsylvania, Chief, Infectious Diseases, The Children's Hospital of Philadelphia, USA.

Achilleas Gikas, Professor of Internal Medicine and Infectious Diseases, Head of Department of Internal Medicine-Infectious Diseases and Infection Control Unit, University Hospital of Heraklion, Greece.

George L. Daikos, Head of the 4th Department of Internal Medicine, Laikon University Hospital, Athens, Professor of Internal Medicine and Infectious Diseases, School of Medicine, University of Athens, Greece.

Ioannis Leontiou, Senior Nurse Officer, President of Cyprus Nurses and Midwives Association (CyNMA).

Cyprus Ministry of Health representative (TBA).

Cyprus Medical Association representative (TBA).

Student of EUC (TBA).

European University Cyprus

OTHER LOCAL AND INTERNATIONAL AGREEMENTS: LOGOS

A/A	Local and International Institution's Logo	Institution's Logo
1.	Academy of Forensic Medical Sciences (UK)	
2.	A.G. Leventis Gallery	
3.	Agia Skepi	
4.	Apollonion Private Hospital	
5.	Aradippou Municipality	

6.	**Aretaeio Hospital**	ARETAEIO HOSPITAL
7.	**"AID of Excellence" (ΕΕΔΕ – EUC – Cyprus of Chamber of Com. and Industry)**	Ομεδε CYPRUS CHAMBER OF COMMERCE AND INDUSTRY
8.	**American Medical Center (AMC)**	AMERICAN MEDICAL CENTER AMERICAN HEART INSTITUTE
9.	**American Gastroenterology Center, Ioannis P. Kaimakliotis MD, AGAF**	AMERICAN GASTROENTEROLOGY CENTER
10.	**ΒΟΥΛΗ ΤΩΝ ΕΛΛΗΝΩΝ**	ΒΟΥΛΗ ΤΩΝ ΕΛΛΗΝΩΝ
11.	**«ΒΖΛ» Βήματα Ζωής, Λευκωσία**	
12.	**«ΒΖΛ» Βήματα Ζωής, Λεμεσός**	
13.	**Γηριατρική Κλινική Ελευθερία Ερημούδη Λτδ**	
14.	**Center for Security Studies (*Κέντρο Μελετών Ασφάλειας -ΚΕΜΕΑ*) / Ministry of Public Order and Citizen Protection, Greece**	ΚΕΜΕΑ

15.	**Costa Navarino**	COSTA NAVARINO
16.	**Cyprus Anti- Drugs Council**	ASK.ORG.CY ΑΝΤΙΝΑΡΚΩΤΙΚΟ ΣΥΜΒΟΥΛΙΟ ΚΥΠΡΟΥ CYPRUS ANTI-DRUGS COUNCIL
17.	**Cyprus Computer Society**	CYPRUS COMPUTER SOCIETY
18.	**Cyprus Organisation for Standardisation (CYS)**	ΚΥΠΡΙΑΚΟΣ ΟΡΓΑΝΙΣΜΟΣ ΤΥΠΟΠΟΙΗΣΗΣ
19.	**CYTA**	cyta Νιώσε κοντά, φτάσε μακριά
20.	**Department of Labour Inspection (*Τμήμα Επιθεώρησης Εργασίας*) / Ministry of Labour, Cyprus**	REPUBLIC OF CYPRUS
21.	**Δήμος Κάτω Πολεμιδιών**	ΔΗΜΟΣ ΚΑΤΩ ΠΟΛΕΜΙΔΙΩΝ 1986

22.	Δήμος Λεμεσού	
23.	Εθνικό Κέντρο Κοινωνικών Ερευνών (ΕΚΚΕ) (National Centre for Social Research)	NatCen Social Research that works for society
24.	Ελληνική Εταιρεία Διοικήσεως Επιχειρήσεων (ΕΕΔΕ)	εεδε ελληνική εταιρία διοικήσεως επιχειρήσεων
25.	Ένωσης Διαιτολόγων – Διατροφολόγων Ελλάδος	
26.	Εργοθεραπευτές «Λουϊζιάνα Κονσάλβες και Αγαθοκλής Θρασυβούλου»	
27.	ELSA (The European Law Students' Association Cyprus)	elsa The European Law Students' Association CYPRUS
28.	Εργαστήριο Εργοθεραπείας «Γιαννής και Σοφία Στυλιανού» (ΕΕΓΣΣ)	
29.	European Public Law Organization (EPLO) Ευρωπαϊκός Οργανισμός Δημοσίου Δικαίου	EPLO European Public Law Organization

30.	**Founder Institute Chapter Cyprus ("FICYP")**	
31.	**Future Worlds Center (leg/reg. Cyprus Neuroscience & Technology Institute)**	
32.	**Harris Kyriakides**	
33.	**Hellenic Petroleum Cyprus Ltd**	
34.	**Hellas Sat Consortium**	
35.	**"Hope for Children" UNCRC Policy Center**	
36.	**«ΙΑΣΩ» Ιδιωτική Γενική, Μαιευτική-Γυναικολογική και Παιδιατρική Κλινική**	
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39.	Ιπποκράτειο Νοσοκομείο	
40.	Κέντρο ΑΜΕΑ – Άγιος Λάζαρος, Λάρνακα	
41.	Κέντρο Αποκατάστασης Αδελφοί Λάκης και Αντρέας Δρουσιώτης Λτδ	
42.	Κέντρο Αποκατάστασης Ηροδότειον Αναρρωτήριον Λτδ	
43.	Κέντρο Αποκατάστασης και Αποθεραπείας – Φυσικοθεραπευτήριο «Άγιος Ιωάννης ο Λαμπαδιστής» ΑΓΙΛ	
44.	Κέντρο «Αδωνίκη Ζανέττου Τάτσιου»	
45.	Κέντρο Εργοθεραπείας για Παιδιά «Λουΐζας Κουσουλίδου» (ΚΕΠΛΚ)	

46.	**Κέντρο Εργοθεραπείας «Τόνιας Μαζαράκη» (ΚΕΤΜ)**	
47.	**Κέντρο Κοινωνικής Προσφοράς (ΚΚΠ)**	
48.	**Κοινοτικό Συμβούλιο Λόφου**	ΚΟΙΝΟΤΙΚΟ ΣΥΜΒΟΥΛΙΟ ΛΟΦΟΥ
49.	**Κυπριακός Ερυθρός Σταυρός**	ΚΥΠΡΙΑΚΟΣ ΕΡΥΘΡΟΣ ΣΤΑΥΡΟΣ CYPRUS RED CROSS SOCIETY
50.	**Cyprus News Agency (CNA)** **KYPE 21/12/2012**	ΚΥΠΕ CNA Cyprus News Agency
51.	**Limassol Nautical Club**	ΝΑΥΤΙΚΟΣ ΟΜΙΛΟΣ ΛΕΜΕΣΟΥ 1962
52.	**Ministry of Health – Διεύθυνση Νοσηλευτικών Υπηρεσιών**	Υπουργείο Υγείας
53.	**MMAP Health Care Staffing, GmbH**	MMAP HEALTH CARE STAFFING

54.	Melathron Agoniston ΕΟΚΑ	
55.	Μέλανδρος Γκανά	
56.	Michael Cacoyannis Foundation, Greece	
57.	Ministry of Defence	
58.	Μονάδα Φροντίδας και Αποκατάστασης «Ματέρια» (ΜΦΑΜ)	
59.	Nicosia Municipality	
60.	ΟΕΛΜΕΚ	
61.	Ομοσπονδία Εργοδοτών και Βιομηχάνων (ΟΕΒ)	

62.	Όμιλος Ματέρια	ΟΜΙΛΟΣ ΜΑΤΕΡΙΑ
63.	Ο Ορίζοντας Κέντρο Πρόληψης και Θεραπείας (ΟΚΠΑΘ)	
64.	Παγκύπριος Σύνδεσμος Νοσηλευτών και Μαιών (ΠΑ.ΣΥ.Ν.Μ.)	ΠΑ.ΣΥ.Ν.Μ. ΠΑΓΚΥΠΡΙΟΣ ΣΥΝΔΕΣΜΟΣ ΝΟΣΗΛΕΥΤΩΝ & ΜΑΙΩΝ CY.N.M.A CYPRUS NURSES & MIDWIVES ASSOCIATION
65.	Παγκύπριος Σύνδεσμος Ποδοσφαιριστών (ΠΑ.Σ.Π.)	ΠΑΓΚΥΠΡΙΟΣ ΣΥΝΔΕΣΜΟΣ ΠΟΔΟΣΦΑΙΡΙΣΤΩΝ ΠΑ.Σ.Π. 1987
66.	Παγκύπριος Σύνδεσμος Σπάνιων Γενετικών Παθήσεων «Μοναδικά Χαμόγελα»	ΜΟΝΑΔΙΚΑ ΧΑΜΟΓΕΛΑ
67.	Παγκύπριος Σύνδεσμος «Προστασίας Σπαστικών και Αναπήρων Παιδειών «ΠΣΠΣΑ)	
68.	Πανελλήνια Ένωση Πτυχιούχων Φυσικής Αγωγής (Π.Ε.Π.Φ.Α.)	Π.Ε.Π.Φ.Α. ΠΑΝΕΛΛΗΝΙΑ ΕΝΩΣΗ ΠΤΥΧΙΟΥΧΩΝ ΦΥΣΙΚΗΣ ΑΓΩΓΗΣ

69.	**Πολυδύναμο Δημοτικό Κέντρο Στροβόλου**	
70.	**Πολυδύναμο Κέντρο Λόγου και Ευφυίας (ΠΚΛΕ)**	
71.	**ΠΟΕΔ**	
72.	**Πολυδύναμο Κέντρο «Άγιος Ιωάννης ο Ελεήμων» της Ιεράς Μητρόπολης Λεμεσού**	
73.	**Πρότυπο Κέντρο Ευγηρίας – Αναρρωτήριο «Άγιος Ιωάννης Λαμπαδιστής Λτδ»**	
74.	**Πρότυπο Κέντρο Συμπεριφοριστικών Θεραπειών «ΑΝΑΛΥΣΙΣ»**	
75.	**Πολυδύναμο Δημοτικό Κέντρο Λευκωσίας**	

76.	Prevention at Sea Ltd	
77.	Στέγη Ευγηρίας Καϊμακλίου «Αρχάγγελος Μιχαήλ»	
78.	Στέγη Ευγηρίας Καϊμακλίου «Αρχάγγελος Μιχαήλ» ΣΕΚΑΜ	
79.	Σύνδεσμος για Άτομα με Αυτισμό (ΣΑΑ)	
80.	Σύλλογος οι Φίλοι της Μουσικής	
81.	Σύνδεσμος στήριξης παιδιών με ειδικές ανάγκες «Ηλιαχτίδα Ζωής», Λάρνακα	
82.	Τηλεόραση ΣΤΑΡ Ελλάδος	
83.	The Shriners' Hospital for Children	
84.	The Chartered Institute for Securities & Investment (CISI)	

85.	**Vision 2020 – The Horizon Network**	
86.	**“Ygia” Polyclinic Private Hospital**	
87.	**Υπηρεσίες Κοινωνικής Ευημερίας**	

European University Cyprus

AGREEMENTS WITH OTHER UNIVERSITIES: LOGOS

A/A	University Name	University Logo
1.	Alborz University of Medical Sciences	
2.	Alliance of Universities of "the Belt and Road"	
3.	Aegean University, Greece	UNIVERSITY OF THE AEGEAN
4.	Aristotle University of Thessaloniki, Greece	ARISTOTLE UNIVERSITY OF THESSALONIKI
5.	Α.Ε.Ι. Πειραιά	
6.	Anhembi Morumbi Universidate, Brazil	Universidade Anhembi Morumbi LAUREATE INTERNATIONAL UNIVERSITIES

7.	Beijing International Education Institute, China	
8.	BITS /Business Information and Technology School	
9.	Carleton University, Ottawa, Canada	
10.	University of Central Europe in Skalica/Slovakia	
11.	Democritus University of Thrace, Greece	
12.	Gallileo Global Education Germany (GGE)	
13.	German Oncology Center (GOC)	

14.	**Golestan University of Medical Science (GOUMS), Iran**	
15.	**Harbin University of Sciences and Technology, China**	
16.	**Harokopio University, Greece**	
17.	**Harvard T.H. Chan (School of Public Health)**	
18.	**Hellenic Open University, Greece**	
19.	**Hunan International Economics University, China**	

20.	Institute of International Relations of Taras Shevchenko, National University of Kyiv, Ukraine	
21.	INTI Universal Holdings Berhad (Laureate International Universities)	
22.	Ionian University, Greece	
23.	ΙΣΕ (Ίδρυμα Συνταγματικών Ερευνών του Εθνικού και Καποδιστριακού Πανεπ. Αθηνών)	
24.	Lanzhou City University, Gansu China	
25.	University of Makedonia	
26.	Mariupol Stage University	

27.	**Moscow State Open University named after Chernomyrdin, Russia**	
28.	**Moscow State University of Economics, Statistics and Informatics (*MESI*), Russia**	
29.	**National and Kapodistrian University of Athens, Greece**	
30.	**National Pedagogical Dragomanov University**	
31.	**Open University of Cyprus, Cyprus**	
32.	**University of OTTAWA**	
33.	**Ovidius University of Costantza, Romania**	
34.	**University of Patras, Greece**	

35.	University of Peloponnese, Greece	
36.	University of Peloponnese	
37.	University of Piraeus, Greece	
38.	Russian State Social University (The Russian Federation)	
39.	Sofia University "St.Kliment Ohridski",	
40.	Surgut State University (*SurSU*), Russia	
41.	Stockton University	

42.	Technological Educational Institute of Athens, Greece	
43.	Technological Educational Institute of Crete, Greece	
44.	Technological Educational Institute of Peloponissos	
45.	Technological Educational Institute of Piraeus, Greece	
46.	Universita Degli Studi Di Roma "Tor Vergata"	
47.	URAL Federal University, Russia	
48.	Transilvania University of Brasov, Romania	
49.	Queens University of Charlotte (USA)	

50.	Vytautas Magnus University	
51.	University of Kragujevac - Serbia	
52.	University of Western Macedonia, Greece	
53.	University of Woosong, South Korea, China	WOOSONG UNIVERSITY
54.	E-Democracy Centre in Aarau / University of Zurich, Switzerland	University of Zurich[UZH] zdε Zentrum für Demokratie Aarau

Document 4b

European University Cyprus

EUC School of Medicine, Collaborating Health Centers

Public Hospitals, Cyprus

Archbishop Makarios III Hospital, Nicosia

Larnaca General Hospital

Nicosia General Hospital

Private Hospitals, Cyprus

Apollonion Private Hospital, Nicosia

Aretaio Medical Center, Nicosia

American Medical Center, Nicosia, Nicosia

Cyprus Institute of Neurology and Genetics (CING)

German Oncology Center, Lemesos

Hippocrateon Private Hospital, Nicosia

YGIA Polyclinic Private Hospital, Lemesos

Private Hospitals, Greece

IASO General Maternity and Gynecology Clinic, Athens

Henry Dunant Hospital Center, Athens

Other

ELPEN experimental clinical research laboratory, Athens

European University Cyprus

APPENDIX II

- **Program Purpose and Objectives**
- **Structure of the Program**
- **Course Distribution per Semester**
- **Teaching Personnel, Courses and Teaching Periods in the Program of Study**
- **Teaching Personnel Qualifications**
- **Course Syllabi**

5 June 2018

PROGRAM'S CONTENT

1. Program's purpose and objectives:

The MSc program in Infectious diseases: prevention and control aims at scientifically approaching all issues regarding the epidemiology and current trends, public health significance, clinical and microbiological characteristics, recommended prevention and control measures and practices, of epidemiologicaly important and preventable infectious diseases.

GENERAL OBJECTIVES:

- To educate and ensure a sound theoretical knowledge of healthcare-associated infections, foodborne and environmental infections, travel-associated and tropical infections, epidemiology, infection prevention, infection control, antimicrobial resistance, antimicrobial stewardship and prudent antimicrobial use.
- To train students to critically evaluate and interpret research on the field of epidemiology of infections, infection prevention and control and antimicrobial resistance.
- To provide guidance and understanding of the basic principles of epidemiologic surveillance and epidemiologic investigation, application of measures and evaluation of outcome measures.
- To provide guidance on planning and designing appropriate infection prevention and control measures.
- To educate and understand the basic components of occupational health and safety in healthcare systems.
- To comprehend and train on research methodology.
- Ultimately, to contribute to the improvement of patient safety and healthcare quality across the institutions that the graduate will serve in the future.

SPECIFIC OBJECTIVES:

- To provide theoretical and practical foundation in the increasingly important area of infection prevention and control and antimicrobial resistance.
- To develop the student's analytical, decision-making and communication skills.
- To enforce the sense of responsibility and integrity, which will promote personal achievements and contribute to quality of healthcare.
- To encourage and enable the student to undertake substantial investigative and practical work on a postgraduate level in the field of infectious diseases epidemiology, infection control and infection prevention.
- To provide necessary guidance in preparing and presenting knowledge acquired through the students' work.

- To enhance the student's knowledge and expertise within the field of epidemiology of different types of infections, including healthcare-associated infections, foodborne and environmental infections, and travel-associated and tropical infections.
- To enhance the student's knowledge and expertise within the field of antimicrobial resistance and infection prevention and control.
- To enhance the student's knowledge within the field of health and safety of workers in healthcare settings.
- To provide the skills to critically appraise related literature, as well as develop personal research projects.
- To progress research work within a healthcare setting or a network of institutions.
- To enhance the ability of critical analysis, scientific approach, and resolution of problems of increasing difficulty.
- To equip healthcare workers with the knowledge and skills to implement appropriate strategies for the prevention and management of infections in a variety of clinical settings.
- To prepare the graduate for career advancement in the area of infection prevention and control.

2. Intended learning outcomes:

The program will enable students to study the prevention, control and microbiological characteristics of infectious diseases in depth and from different perspectives. It is an interdisciplinary program designed for students interested in acquiring comprehensive knowledge on infection prevention and control and antimicrobial resistance.

Upon successful completion of this program, students are expected to:

- Express and analyze the definitions of healthcare-associated infections, foodborne diseases, antimicrobial resistance, antimicrobial stewardship, occupational health and safety, travel medicine, infection prevention, and infection control.
- Apply these terms during their daily routine and elaborate on their application in different cases.
- Describe the core elements of infection prevention and control systems.
- Describe basic principles of infectious diseases epidemiology.
- Recognize the basic diagnostic methods required to culture pathogens and detect resistance, and discuss their application in detecting the epidemiologically most important pathogens and types of resistance.
- Describe the basic characteristics of antimicrobial stewardship programs.
- Recognize outbreaks and successfully plan and implement control measures.
- Critically appraise research and develop research protocols.

- Apply communication skills and successfully interact with different specialties and disciplines in the area of infection prevention and control.
- Develop and implement a structured and sustained surveillance program of infections.
- Develop their own research projects, tailored to the needs and qualities of individual healthcare systems.
- Demonstrate leadership in appropriate academic, research and clinical settings.
- Access, understand and apply published research and practical evidence pertaining to the practice of infection prevention and control.
- Develop the necessary skills to continue their own professional development.

STRUCTURE OF THE PROGRAM OF STUDY

Degree Requirements	**ECTS**
Students of the "Infectious Diseases: Prevention and Contol" program must complete the following ECTS for graduation	
Compulsory Courses	**60**
Elective Courses	**16**
Master Thesis	**14**
Total Requirements	**90**

Compulsory Courses (60 ECTS)		**60 ECTS**
IPC 610	Infection prevention and control: essentials in healthcare	8
IPC 611	Essentials of microbiology in infection prevention and control	8
IPC 612	Research methods in infectious diseases	7
IPC 613	Epidemiology of Infectious Diseases	7
IPC 621	Antimicrobial stewardship	8
IPC 622	Multidrug resistant organisms: public health implications and control	7
IPC 623	Design of a surveillance system, collection and interpretation of surveillance data	8
IPC 624	Occupational health and safety in healthcare and communication issues in public health emergencies	7
Elective Courses (16 ECTS)		**16 ECTS**
IPC 630	Infection prevention and control:practical approach	8
IPC 631	Foodborne diseases and food safety	8
IPC 632	Travel-associated and tropical diseases	8
IPC 633	Current issues in infection prevention and control	8
Master Thesis (14 ECTS)		**14 ECTS**
IPC 690	Master thesis	14

COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
A' Semester								
1.	Compulsory	Infection prevention and control: essentials in healthcare	IPC 610	3	50	14	42	8
2.	Compulsory	Essentials of microbiology in infection prevention and control	IPC 611	3	50	14	42	8
3.	Compulsory	Research methods in infectious diseases	IPC 612	3	50	14	42	7
4.	Compulsory	Epidemiology of infectious diseases	IPC 613	3	50	14	42	7
B' Semester								
5.	Compulsory	Antimicrobial stewardship	IPC 621	3	50	14	42	8
6.	Compulsory	Multidrug resistant organisms: public health implications and control	IPC 622	3	50	14	42	7
7.	Compulsory	Design of a surveillance system, collection and interpretation of surveillance data	IPC 623	3	50	14	42	8
8.	Compulsory	Occupational health and safety in healthcare and communication	IPC 624	3	50	14	42	7

		issues in public health emergencies						
C' Semester								
9.	Compulsory	Master thesis	IPC 690	----	-----	14	----	14
10.	Elective Course		-----	3	50	14	42	8
11.	Elective Course		-----	3	50	14	42	8

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

A/A	Name and Surname	Discipline / Specialization	Teaching courses in the program of study under evaluation (Infectious diseases: prevention, control and antimicrobial resistance)		
			Code	Course title	Periods/ week
1.	George Petrikkos	Infectious Diseases / Immunology / Microbiology	IPC610	Infection prevention and control: essentials in healthcare	3
2.	Constantinos Tsioutis	Internal Medicine / Infection prevention and control / Antimicrobial stewardship	IPC621 IPC622 IPC630	Antimicrobial stewardship Multidrug resistant organisms: public health implications and control Infection prevention and control: practical approach	3 3 3 3
3.	Mary Eleftheriadou	Microbiology / Food microbiology / Food safety	IPC631	Foodborne diseases and food safety	3
4.	Giagkos Lavranos	Epidemiology / Public health	IPC624 IPC612	Occupational health and safety in healthcare and communication issues in public health emergencies Research methods in infectious diseases	3 3
5.	Demetris Lamnisos	Biostatistics / Public health	IPC612	Research methods in infectious diseases	3
6.	Joseph Papaparaskevas	Biopathology / Microbiology / Antimicrobial resistance	IPC611 IPC622	Essentials of microbiology in infection prevention and control Multidrug resistant organisms: public health implications and control	3 3
7.	Dimitrios Paraskevis	Epidemiology / Preventive medicine	IPC613 IPC623	Epidemiology of infectious diseases Design of a surveillance system, collection and interpretation of durveillance data	3 3
8.	Androula Pavli	Public health / Travel medicine / Tropical medicine	IPC613 IPC632	Epidemiology of infectious diseases Travel-associated and tropical diseases	3 3

9.	George Efstathiou	Nurse education / Infection prevention and control	IPC610 IPC630	Infection prevention and control: essentials in healthcare Infection prevention and control: practical approach	3 3
10.	All members of teaching personnel	All disciplines related to the MSc Infectious diseases: prevention, control and antimicrobial resistance	IPC633	Current issues in infection prevention and control	3
11.	All members of teaching personnel	All disciplines related to the MSc Infectious diseases: prevention, control and antimicrobial resistance	IPC690	Master thesis	---

TEACHING PERSONNEL, QUALIFICATIONS, AND TOTAL TEACHING PERIODS

A/A	Name and Surname	Qualifications	Rank*	FT/PT**	Program of Study	Periods / week	Total periods /week
1.	George Petrikkos	MD – Medical degree Internal Medicine Specialist Infectious Diseases Specialist PhD Infectious Diseases	P	FT	MSc in IPC	3	3
2.	Constantinos Tsioutis	MD – Medical degree Internal Medicine Specialist PhD Multidrug resistance and infection control	L	FT	MSc in IPC	3	12
					MD	9	
3.	Mary Eleftheriadou	BSc Medical Technology Msc Food Microbiology PhD Food Microbiology	Assoc.P	FT	MSc in IPC	3	9
					BSc in Biology	3	
					BSc in Nursing	3	
4.	Giagkos Lavranos	MD – Medical degree Internal Medicine Specialist MA Health management PhD Endocrinology	Assis.P	FT	MSc in IPC	3	12
					PhD in Nursing	3	
					MPH	3	
					PhD in Public Health	3	
5.	Demetris Lamnisos	BSc Mathematics and Statistics MSc Statistics PhD Statistics	Assis.P	FT	MSc in IPC	3	12
					Nursing M.Sc	3	
					MPH	3	
					PhD in Public Health	3	
6.	Joseph Papaparaskevas	MD – Medical degree Specialist in Medical biopathology PhD Molecular epidemiology of nosocomial infections	Vis.P§	PT	MSc in IPC	6	6

7.	Dimitrios Paraskevis	BSc Physics MSc Molecular biology and biotechnology PhD Epidemiology	Vis.P§	PT	MSc in IPC BSc in Biology MD	6 3 3	12
8.	Androula Pavli	MD – Medical degree Specialist in Familiy Medicine PGDip Travel Medicine MPH PhD Epidemiology - Microbiology	Vis.P§	PT	MSc in IPC	6	6
9.	George Efstathiou	BSc Nursing MSc Health Sciences PhD Nursing – Infection control	Vis.P§	PT	MSc in IPC	6	6

* Rank: Professor (P), Associate Professor (Assoc. P), Assistant Professor (Assis. P), Lecturer (L), Special Teaching Personnel (STP), Visiting Professor (Vis. P), Special Scientist (SS), Lab Assistant (LA)
** Full Time (FT), Part Time (PT)
§Scientific collaborator

LIST OF COMPULSORY COURSES AND ELECTIVE COURSES

A/A	COURSE TITLE		PAGE
1.	IPC610	Infection prevention and control: essentials in healthcare	13
2.	IPC611	Essentials of microbiology in infection prevention and control	17
3.	IPC612	Research methods in infectious diseases	19
4.	IPC613	Epidemiology of infectious diseases	21
5.	IPC621	Antimicrobial stewardship	24
6.	IPC622	Multidrug resistant organisms: public health implications and control	28
7.	IPC623	Design of a surveillance system, collection and interpretation of surveillance data	31
8.	IPC624	Occupational health and safety in healthcare and communication issues in public health emergencies	33
9.	IPC630	Infection prevention and control: practical approach	35
10.	IPC631	Foodborne diseases and food safety	38
11.	IPC632	Travel-associated and tropical diseases	40
12.	IPC633	Current issues in infection prevention and control	43
13.	IPC690	Master thesis	45

COURSE DESCRIPTIONS

Course Title	**Infection prevention and control: essentials in healthcare**				
Course Code	IPC610				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	George Petrikkos, George Efstathiou				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	This compulsory course is provides knowledge on the definitions, principles and practices of infection prevention and control. It aims to provide a global perspective of infection prevention and control, including knowledge on history and importance for healthcare, definitions of healthcare-associated infections and community-associated infections, hygiene in the communicy and healthcare, hand hygiene, isolation precautions, environmental infection control, disinfection and sterilisation, the role of governance and leadership, risk assessment and management, organization of infection control programs, structure of the infection control committee, role and responsibilities of the infection prevention and control professional, health economics, legal, ethical and regulatory aspects. In addition, the course will familiarize students with the functional characteristics and required infection prevention and control practices in special units (ambulatory care and community health centers, intensive care units, hemodialysis units, neonatal units, burn units, transplantation units, endoscopy units, cardiosurgery, long term care facilities, nursing homes) and in special populations (neonates, burn patients, transplant patients, geriatric patients, refugees, other immunocompromised patients). Through demonstration of case studies and problem-based learning, the course will address the multidisciplinary approach of infection prevention and control and help students assimilate their future role in the healthcare system.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Describe the history and importance of infection prevention and control and concepts of hygiene • Discuss ethical concepts in healthcare, ethics in infection prevention and control, including gender disparities and respecting ethical standards for patient protection				

	• Describe important epidemiologic parameters in infection prevention and control in healthcare, including special units and special populations: infection frequency (prevalence and incidence), microbiology, exposure to invasive procedures, compliance to infection prevention practices, antibiotic consumption, hand hygiene compliance, auditing of infection control infrastructure • Illustrate the definitions of healthcare-associated infections, community-associated infections, tropical infections and travel-associated infections, and assess the applications of these definitions in daily practice and surveillance • Explain the basic concepts of hygiene, the importance of hand hygiene, demonstrate the relationship between hand hygiene and acquisition of pathogens, demonstrate the different methods of hand hygiene, and discuss the recommended strategies to improve compliance • Describe the types of isolation precautions and appraise their application in different settings, including special units and special populations • Define the basic structure, specialized equipment and functional particularities of special healthcare units • Describe the individual characteristics and factors that determine susceptibility to infection of patients in special units and special populations • Describe the importance of environmental infection control and assess its role in pathogen transmission • Identify and discuss the specific infection control measures that are required in special units and special populations in emergency and outbreak situations, through the demonstration and analysis of case studies • Differentiate between disinfection and sterilisation and identify different types of sterilisation • Outline the process for cleaning patient care items • Define the role of governance and leadership in infection prevention and control • Describe and discuss the basic aspects of an effective infection control program • Describe the structure and function of the infection control committee • Elaborate on the role and responsibilities of the infection prevention and control professional, by analysing different case studies • Illustrate legal, ethical and regulatory aspects of infection prevention and control, by analysing different case studies

Prerequisites	None	Co-requisites	None
Course Content	This course focuses on: • The history and evolution of the specialization of infection prevention and control through time • Epidemiologic data related to infection prevention and control: infection rates, microbiology, exposure to invasive procedures, compliance to infection prevention practices, antibiotic consumption, hand hygiene compliance, auditing of infrastructure • The role, legal and ethical responsibilities, and contribution of the infection prevention and control professional and the infection control committee in daily aspects of healthcare but also in surveillance • The various aspects and current recommendations on hand hygiene, isolation precautions, disinfection and sterilisation • The importance of hand hygiene, isolation precautions and environmental infection control in the pathogenesis of infections • The presentation of the structure, the specialized equipment that is commonly used, and the functional characteristics of special units in healthcare, such as ambulatory care and community health centers, intensive care units, hemodialysis units, neonatal units, burn units, transplantation units, endoscopy units, cardiosurgery, long term care facilities, nursing homes • The individual characteristics and the risk factors that determine susceptibility to infection, the basic epidemiology and microbiology of infections, as well as appropriate infection prevention measures, of patients in special units and in special populations, such as neonates, burn patients, transplant patients, geriatric patients, other immunocompromised patients • The necessary additional measures required for infection prevention and control in emergency and outbreak situations in different healthcare settings and populations, through the presentation and analysis of case studies • The importance of leadership and administrative support for the practice infection prevention and control		
Teaching Methodology	Face to face		
Bibliography	• Damani, N (ed). Manual of infection prevention and control. 3rd Edition. Oxford: Oxford University Press; 2011.		

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Yokoe DS, Anderson DJ, Berenholtz SM, et al. A compendium of strategies to prevent healthcare-associated infections in acute care hospitals: 2014 updates. Infect Control Hosp Epidemiol. 2014 Sep;35 Suppl 2:S21-31. Available at: https://www.cambridge.org/core/services/aop-cambridge-core/content/view/75D6F30B783B52FABAAA29C136E8FA03/S0899823X00193833a.pdf/compendium_of_strategies_to_prevent_healthcareassociated_infections_in_acute_care_hospitals_2014_updates.pdf

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<tr><td>Assessment</td><td>
<table>
<tr><td>Examinations</td><td>70%</td></tr>
<tr><td>Assignment(s)</td><td>20%</td></tr>
<tr><td>Participation</td><td>10%</td></tr>
<tr><td></td><td>100%</td></tr>
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<tr><td>Language</td><td>English</td></tr>
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Course Title	**Essentials of microbiology in infection prevention and control**				
Course Code	IPC611				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Joseph Papaparaskevas				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	The course aims to familiarise students with: a) the pathogenetic mechanisms of microorganisms, the establishment, evolution and pathophysiology of infection; b) the interaction between pathogens, microbiome of the host (including its normal flora) and its immunological mechanisms of defence; c) the microbiological diagnostic techniques, both conventional and molecular. The student will be offered the necessary knowledge to recognize and investigate infectious diseases, to evaluate the diagnostic procedure, the diagnostic techniques and the antimicrobial susceptibility testing, as well as the epidemiological investigation and surveillance of antimicrobial resistance.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Identify the major mechanisms of pathogenesis of infections • Identify the immunological defence mechanisms of the host-patient and how the host responds to pathogens • Define the interaction between the host microbiome (including normal flora) and the pathogens • Describe the differences between normal flora, colonization and infection by different microorganisms, including the utility and contribution of biomarkers in this differentiation • Classify the major clinical specimens and identify the most suitable for each infection • Differentiate clinical specimens derived from infection sites with normal flora, from the ones derived from sterile sites • Understand the consequences of the presence of normal flora in different body sites with respect to infection diagnosis • Evaluate a microbiological diagnostic result, including susceptibility testing, the utility of biomarkers in microbiological				

<table>
<tr><td></td><td colspan="3">confirmation, and identify the microorganisms indicated for susceptibility testing
• Illustrate the major antimicrobial classes, the mechanisms of action and the mechanisms of resistance
• Identify the major sources of transmission and spread of microbial resistance</td></tr>
<tr><td>Prerequisites</td><td>None</td><td>Co-requisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">This course focuses on:
• The main mechanisms of microbial pathogenesis
• The main techniques of microbiological diagnosis of infections, both conventional and molecular
• The main techniques of antimicrobial susceptibility testing
• The main antimicrobial mechanisms of action and the mechanisms of resistance
• The main techniques of investigation and surveillance of resistance</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Face to face</td></tr>
<tr><td>Bibliography</td><td colspan="3">• Delves PJ, Martin SJ, Burton DR, Roitt IM (eds). Roitt's Essential Immunology, 13th Edition, Wiley-Blackwell; 2017.
• Greenwood D, Slack R, Barer M, Irving W (eds). Medical Microbiology, 18th Edition, Elsevier; 2012.
• Murray PR, Rosenthal KS, Pfaller MA (eds). Medical Microbiology, 7th Edition, Elsevier; 2013.
• Tortora GJ, Funke BR, Case CL (eds). Microbiology: An Introduction, 12th Edition, Pearson Education Inc; 2016.</td></tr>
<tr><td>Assessment</td><td colspan="3">Examinations 70%
Assignment(s) 20%
Participation 10%
100%</td></tr>
<tr><td>Language</td><td colspan="3">English</td></tr>
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Course Title	**Research methods in infectious diseases**				
Course Code	IPC612				
Course Type	Elective				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Giagkos Lavranos, Demetris Lamnisos				
ECTS	7	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	The course aims to offer advanced knowledge of research methodology and its practical application to research-related activity. The students will gain knowledge on different methods commonly used in research in the field of infectious diseases. The course will also provide the skills to interpret and criticize research, in order to apply published evidence intro everyday practice and to plan further research.				
Learning Outcomes	Upon completion of the course, students will be able to: • Identify and interpret the value of methodological research in applying evidence-based practice in the field of biomedical sciences. • Define, explain and apply basic principles of biomedical research both in quantitative and qualitative studies • Create research questions, formulate hypotheses, design research strategies for pertinent data acquisition and use initial findings to trigger secondary research. • Describe, distinguish and select the appropriate steps of a research protocol and acquire data both in quantitative and qualitative type of study. • Evaluate statistical issues in biomedical research, such as effect measure, hypothesis testing and confidence interval. • Discuss major ethical issues in human and animal studies. • Describe criteria for characterizing the causality of associations. • Define the epidemiological study designs and the bias, the appropriate disease measures and measures of associations. • Synthesize the determinants and predictors of outcome of the major conditions associated with mortality and morbidity				

Prerequisites	None	Co-requisites	None
Course Content	• Basic principles and methods of design, conduct and interpretation of epidemiologic studies, including descriptive studies, observational analytic studies (case-control and cohort), drug development and randomized clinical trials. • Evaluation of chance, bias, confounding, and effect modification. • Health indicators and interpretation of health statistics data • Analysis of research data and presentation in the form of tables and charts using the SPSS statistical program • Methods for calculation and evaluation of statistically significant differences between compared experimental groups • Description of the main concepts and types of scientific research, learning the value of ethics in research, as well as defining the scientific approaches related to problem solving in the field of biomedical sciences • Clarification of the concept of research hypotheses formulation, research protocol design, and pilot studies conduction • Learning various sampling procedures as well as the concepts of reliability and validity in research • Analysis of problems related to the internal and external validity of an experiment, and provision of ways to address them • Means of data collection and management depending on certain variables and scales • Clinical research, controlled clinical trials, publication bias, estimation sample size, generalization, measurement error and sources of error, test of validity and reliability • Critical reading and evaluation of the quality of published research work		
Teaching Methodology	Face to face		
Bibliography	• Friis, Robert H.; Epidemiology for Public Health Practice; 4th; 978-0763751616; Jones and Bartlett Publishers; 2008 • Marder P. Michael, Research Methods for Science. Cambridge University, 2011 • Laake P., Benestad H.B. and Olsen B.R. Research methodology in the medical and biological sciences. Amsterdam; Boston; London: Academic, 2007		
Assessment	Examinations 70% Assignment(s) 20% Participation 10% 100%		
Language	English		

Course Title	**Epidemiology of infectious diseases**				
Course Code	IPC613				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 1st Semester				
Teacher's Name	Dimitrios Paraskevis, Androula Pavli				
ECTS	7	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	This course aims to provide an indepth study of the epidemiology of infectious diseases. It provides students with the necessary background in the basic methods for infectious disease epidemiology and investigation, including definitions and nomenclature, methods and concepts of epidemiology, types of studies (eg.case-control, cohort, etc), outbreak investigations, disease surveillance, molecular epidemiology, and dynamics of transmission. It will also help them crystallize which methods are intrinsically best for their own research endeavors, in order to organize personal projects and compose research essays, by applying critical thought and using relevant literature and other scientific/academic sources.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Define the most important investigative methods used in infectious diseases epidemiology • Discuss ethical issues in epidemiological studies, including patient confidentiality and consent and recent legislation • Review the global burden and consequences of infectious diseases • Classify and organize according to scientific criteria the bibliographical data which they have selected • Choose the most appropriate study design in epidemiologic research • Demonstrate an ability to recognize and use efficiently the current methods used in infectious diseases epidemiology • Recall the most important methods for infectious diseases monitoring such as epidemiologic surveillance and outbreak investigation • Define the contribution of bioinformatics in the study of the epidemiology of infectious diseases				

	• Demonstrate the applications of epidemiology to the study of the causes and to the prevention of infections • Review basic statistical concepts used in the analysis and interpretation of epidemiological data • Define the most important global, European and national organizations implicated in the epidemiology infectious diseases • Demonstrate an ability to write academic essays by applying critical thought and using relevant literature and other scientific/academic sources.		
Prerequisites	None	Co-requisites	None
Course Content	This course focuses on: • Introduction – definition and historical review, key terms in epidemiology, sources of epidemiological information, health Indicators • Measures of disease frequency, overview of epidemiologic study designs • Basic principles of epidemiologic surveillance, including ethical issues in epidemiologic investigation • Outbreak Investigation Study types (eg. case-control, cohort) • Demonstration of the global burden of infectious diseases • Principles of investigation of the epidemiology of infectious diseases • Basic statistical concepts in the analysis and interpretation of epidemiological data • Infection control policies and the role of governmental and intergovernmental organisations • Molecular typing and clustering analysis as tools for epidemiological investigation		
Teaching Methodology	Face to face		
Bibliography	• Τριχόπουλος Δ., Λάγιου Π.Δ.. (2011) Γενική και Κλινική Επιδημιολογία: Αρχές, μέθοδοι και εφαρμογές στην ιατρική έρευνα και τη δημόσια υγεία. Εκδόσεις Παρισιάνου. • Χατζάκης, Α. Επιδημιολογία by Aschengrau, Ann Seage, George R. Εκδόσεις Πασχαλίδη. • Aschengrau, A. Seage GR. Essentials of epidemiology in public health. Jones & Bartlett Learning. • Bonita R, Beaglehole R, Kjellström T. Basic epidemiology. World Health Organization. Available at: http://apps.who.int/iris/bitstream/10665/43541/1/9241547073_eng.pdf		

	• Kramer A (2010). Modern Infectious Disease Epidemiology. Concepts, Methods, Mathematical Models, and Public Health. Springer. • Rothman KJ. Epidemiology: an introduction. Oxford University Press.
Assessment	Examinations 70% Assignment(s) 20% Participation 10% 100%
Language	English

Course Title	**Antimicrobial stewardship**				
Course Code	IPC621				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Constantinos Tsioutis				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	This compulsory course aims to familiarise students with the essentials of antimicrobial prescription and prudent use of antimicrobials, and the principles of antimicrobial stewardship. It provides necessary background on the significance of antimicrobials and helps them conceptualize the various considerations of antimicrobial use and antimicrobial stewardship. The course will help students analyse the different components of an antimicrobial stewardship program. Through demonstration of case studies and analysis of relevant literature, the course will address and evaluate the multiple implications of antimicrobial use and the application of antimicrobial stewardship.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Define the public health significance of the use of antimicrobials in terms of their epidemiologic, medical, ecologic, and financial implications • Define the essentials of antimicrobial prescription and prudent use • Describe the essential components of a surveillance system of antimicrobial use and evaluate the different epidemiologic markers used in surveillance of antimicrobial use • Illustrate the pharmacodynamic and pharmacokinetic parameters of antimicrobial use, by analysing different case studies and discussing relevant literature • Classify the basic principles of antimicrobial stewardship and analyse the different components of an antimicrobial stewardship program, by applying them in case studies • Demonstrate the ability to evaluate the epidemiological and clinical applications of antimicrobial use and propose solutions, concerning justified use of antimicrobials and implementation of an antimicrobial stewardship program in different healthcare settings				

Prerequisites	Completion of all courses of 1st semester	Co-requisites	None
Course Content	This course focuses on: • The public health importance of the use of antimicrobials: o epidemiologic data of antimicrobial use and related markers (eg.surveillance, defined daily doses, incidence of use in the community, appropriate vs inappropriate use), o medical implications (treatment success rates, untoward effects), o ecologic implications (effect on gut microbioma, adverse effects due to unjustified or inappropriate use, association between antimicrobial use and emergence of antimicrobial resistance), o financial implications (cost of use, cost-effectiveness of antimicrobial stewardship) • The components of an antimicrobial use surveillance system and epidemiologic markers used • The various parameters that should be taken into consideration during prescription of antimicrobials (indications, off-label use, empirical/definitive treatment, prophylaxis, choice of drug, mode of delivery, pharmacology, patient comorbidities, duration, de-escalation, intravenous to oral switch, discontinuation) and their application in case scenarios • Current pharmacodynamic and pharmacokinetic parameters of antimicrobial use • Presentation and discussion of case studies of appropriate and inappropriate antimicrobial use and their effects on a patient- and system- level • The basic principles of antimicrobial stewardship and the necessary components of an effective antimicrobial stewardship program, as defined by published literature and recommendations • The implementation of antimicrobial stewardship programs in different healthcare settings through presentations and analysis of case studies		
Teaching Methodology	Face to face		
Bibliography	• Barlam TF, Cosgrove SE, Abbo LM, et al. Implementing an Antibiotic Stewardship Program: Guidelines by the Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America. Clin Infect Dis. 62(10):e51-77; 2016. Available at: https://academic.oup.com/cid/article-lookup/doi/10.1093/cid/ciw118		

- CDC. Core Elements of Hospital Antibiotic Stewardship Programs. Atlanta, GA: US Department of Health and Human Services, CDC; 2014. Available at http://www.cdc.gov/getsmart/healthcare/implementation/core-elements.html
- CDC. Get Smart for Healthcare. Atlanta, GA: CDC; 2015. Available at http://www.cdc.gov/getsmart/healthcare/pdfs/getsmart-healthcare.pdf
- Davey P, Brown E, Charani E, et al. Interventions to improve antibiotic prescribing practices for hospital inpatients. Cochrane Database Syst Rev. 2013;4:CD003543. Available at: http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD003543.pub3/epdf/standard
- Dellit TH, Owens RC, McGowan JE Jr, , et al; Infectious Diseases Society of America; Society for Healthcare Epidemiology of America. Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America guidelines for developing an institutional program to enhance antimicrobial stewardship. Clin Infect Dis. 44(2):159-177: 2007. Available at: http://www.idsociety.org/uploadedFiles/IDSA/Guidelines-Patient_Care/PDF_Library/Antimicrobial%20Stewardship.pdf
- Department of Health Advisory Committee on Antimicrobial Resistance and Healthcare Associated Infection (ARHAI). Antimicrobial stewardship: “start smart - then focus” Guidance for antimicrobial stewardship in hospitals (England). 2011. Available at: https://www.gov.uk/government/publications/antimicrobial-stewardship-start-smart-then-focus
- Duguid M, Cruickshank M (eds). Antimicrobial stewardship in Australian hospitals. Australian Commission on Safety and Quality in Health Care, Sydney. 2010. Available at: https://www.safetyandquality.gov.au/wp-content/uploads/2011/01/Antimicrobial-stewardship-in-Australian-Hospitals-2011.pdf
- Jarvis WR (ed). Bennet & Brachman’s Hospital Infections. 6th Edition, Wolters Kluwer & Lippincott Williams & Wilkins; Philadelphia, USA; 2007.
- Mayhall GC (ed). Hospital epidemiology and infection Control. Latest 4th Edition, Philadelphia, Lippincott, Williams and Wilkins.
- National Quality Forum. National Quality Partners Playbook: Antibiotic Stewardship in Acute Care. NQP; 2014. Available at http://www.qualityforum.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=82501

Assessment	Examinations	70%
	Assignment(s)	20%
	Participation	10%
		100%
Language	English	

Course Title	**Multidrug resistant organisms: public health implications and control**				
Course Code	IPC622				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Joseph Papaparaskevas, Constantinos Tsioutis				
ECTS	7	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	The course aims to familiarise students with the current definitions, underlying mechanisms, transmission dynamics, epidemiology, diagnostics, and public health importance of multidrug resistance. In addition, the students will gain necessary knowledge on the specific measures required to control spread of multidrug resistance and to manage infections caused by multidrug resistant pathogens, through discussion of the literature and case studies.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Identify the epidemiologically most important types of antimicrobial resistance • Describe the underlying mechanisms of antimicrobial resistance • Illustrate the current definitions of multidrug resistance, their clinical relevance and public health implications • Describe and differentiate between colonization and infection by multidrug resistant microorganisms, including the utility and contribution of biomarkers in this differentiation • Evaluate the risk factors for acquisition of multidrug resistant strains through demonstration and analysis of case studies • Describe the epidemiology of multidrug resistance across the globe and demonstrate current epidemiologic trends and transmission dynamics • Describe the current diagnostic methods (conventional and molecular) used to detect antimicrobial resistance • Evaluate an antimicrobial susceptibility test and relate the results to the underlying mechanisms of resistance • Classify the required infection control measures to decrease the frequency and tackle the spread of multidrug resistance, through review of relevant literature and analysis of case studies				

<table>
<tr><td></td><td colspan="3">• Define the therapeutic management of infections due to multidrug resistant pathogens</td></tr>
<tr><td>Prerequisites</td><td>Completion of all courses of 1st semester</td><td>Co-requisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">This course focuses on:
• The main mechanisms of antimicrobial resistance and multidrug resistance
• The epidemiology and risk factors for acquisition of multidrug resistance microrganisms
• The main microbiological techniques used for detection and interpretation of multidrug resistance
• The targeted measures indicated to treat and control the spread of multidrug resistance</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Face to face</td></tr>
<tr><td>Bibliography</td><td colspan="3">• Murray PR, Rosenthal KS, Pfaller MA (eds). Medical Microbiology, 7th Edition, Elsevier; 2013.
• Greenwood D, Slack R, Barer M, Irving W (eds). Medical Microbiology, 18th Edition, Elsevier; 2012.
• Jarvis WR (ed). Bennet & Brachman's Hospital Infections. 6th Edition, Wolters Kluwer & Lippincott Williams & Wilkins; Philadelphia, USA; 2007.
• Mayhall GC (ed). Hospital epidemiology and infection Control. Latest Edition, Philadelphia, Lippincott, Williams and Wilkins.
• Siegel JD, Rhinehart E, Jackson M, Chiarello L; Healthcare Infection Control Practices Advisory Committee. Management of multidrug-resistant organisms in health care settings, 2006. Am J Infect Control. 2007 Dec;35(10 Suppl 2):S165-93. Available at: http://www.ajicjournal.org/article/S0196-6553(07)00739-0/pdf
• Tacconelli E, Cataldo MA, Dancer SJ, et al; European Society of Clinical Microbiology. ESCMID guidelines for the management of the infection control measures to reduce transmission of multidrug-resistant Gram-negative bacteria in hospitalized patients. Clin Microbiol Infect. 2014 Jan;20 Suppl 1:1-55. Available at: http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X(14)60007-0/pdf</td></tr>
</table>

Assessment	Examinations	70%
	Assignment(s)	20%
	Participation	10%
		100%
Language	English	

Course Title	**Design of a surveillance system, collection and interpretation of surveillance data**				
Course Code	IPC623				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Dimitrios Paraskevis				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	It is a mandatory course, which aims to familiarise students with advanced knowledge on the epidemiology of infectious diseases and the design, collection and interpretation of surveillance data. It provides students with the necessary background on advanced epidemiologic methods and uses case studies to understand epidemiologically important disease syndromes and diseases.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Define the most important research methods in infectious diseases epidemiology • Define the relationship between risk factors and infectious diseases epidemiology • Define the current epidemiologic and socioeconomic factors affecting the transmission of epidemiologically important infectious diseases • Choose and apply the most appropriate study design in epidemiologic research • Discuss ethical issues in epidemiological studies, including patient confidentiality, consent and relevant legislation • Demonstrate an ability to recognize and efficiently use molecular epidemiologic methods and geographic information systems in infectious diseases and public health • Define the need and basic principles upon which an epidemiological study is implemented to investigate a clinical problem • Design a surveillance plan and/or epidemiologic investigation • Demonstrate the basic steps of a surveillance and epidemiologic investigation, including data collection, management, analysis and presentation • Discuss techniques and computerized systems used for recording, analyzing and presenting surveillance data				

<table>
<tr><td>Prerequisites</td><td>Completion of all courses of 1st semester</td><td>Co-requisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">This course focuses on:
Molecular epidemiology of infectious diseases, geographic information systems and bioinformatics
Applications of molecular epidemiology in infectious diseases and public health
Mathematical models and computerized systems in infectious diseases epidemiology
Indications, basic principles and steps required to design, implement, collect and analyse data and present the results of a surveillance system
Case studies on the epidemiological investigation of specific infectious diseases</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Face to face</td></tr>
<tr><td>Bibliography</td><td colspan="3">Τριχόπουλος Δ., Λάγιου Π.Δ.. (2011) Γενική και Κλινική Επιδημιολογία: Αρχές, μέθοδοι και εφαρμογές στην ιατρική έρευνα και τη δημόσια υγεία. Εκδόσεις Παρισιάνου.
Χατζάκης, Α. Επιδημιολογία by Aschengrau, Ann Seage, George R. Εκδόσεις Πασχαλίδη.
Aschengrau, A. Seage GR. Essentials of epidemiology in public health. Jones & Bartlett Learning.
Bonita R, Beaglehole R, Kjellström T. Basic epidemiology. World Health Organization. Available at: http://apps.who.int/iris/bitstream/10665/43541/1/9241547073_eng.pdf
Kramer A (2010). Modern Infectious Disease Epidemiology. Concepts, Methods, Mathematical Models, and Public Health. Springer.
Lee TB, Montgomery OG, Marx J, et al. Recommended practices for surveillance: Association for Professionals in Infection Control and Epidemiology (APIC), Inc. Am J Infect Control 2007; 35: 427-440.
Rothman KJ. Epidemiology: an introduction. Oxford University Press.</td></tr>
<tr><td>Assessment</td><td colspan="3">Examinations 70%
Assignment(s) 20%
Participation 10%
100%</td></tr>
<tr><td>Language</td><td colspan="3">English</td></tr>
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Course Title	**Occupational health and safety in healthcare and communication issues in public health emergencies**				
Course Code	IPC624				
Course Type	Compulsory				
Level	Master's (2nd cycle)				
Year / Semester	1st Year / 2nd Semester				
Teacher's Name	Giagkos Lavranos				
ECTS	7	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	The main objectives of this course are to familiarize students with occupational health, the principles of hazard analysis and the application of health promotion techniques (education, protection and prevention) to minimize infection transmission in the workplace				
Learning Outcomes	Upon completion of the course, students will be able to: • Review and develop screening and immunization programs of healthcare personnel. • Develop recommendations to deliver infection prevention programmes, counseling, follow up, and work restriction recommendations related to communicable diseases and exposures. • Recognize healthcare personnel who may pose a transmission risk to patients, coworkers, and communities. • Assess occupational exposure to infectious diseases (eg. tuberculosis, bloodborne pathogens). • Apply principles of communication management in public health emergencies (epidemics, outbreaks, bioterrorism, disaster medicine). • Identify and interpret the value of methodological research in applying evidence-based practice in the field of biomedical sciences. • Understand major ethical issues in public health, including gender disparities, bias, patient confidentiality, consent, animal rights, legislation				
Prerequisites	Completion of all courses of 1st semester		Co-requisites	None	

Course Content	• Definition of health, disease, disability and function • Types of occupations / using the ICF model of the WHO • Defining health hazards • Detecting health hazards / HACCP approach • Application of immunizations for infection prevention • Use of safety equipment / hand hygiene • Specifications for lab biosafety / isolation protocols • International health reegulations / disease reporting • Health education principles for infection control and prevention • Communication management in public health • Public health emergencies / massive disasters • Occupational medicine / principles of occupational law
Teaching Methodology	Face to face
Bibliography	WHO / NHS Occupational Health and Safety Manuals: http://www.insht.es/InshtWeb/Contenidos/INSHT%20en%20Europa/destacados_Documentacion/Ficheros/GuiaUE%20SectorSanitario%202011.en.pdf http://www.hse.gov.uk/pubns/infection.pdf http://www.who.int/occupational_health/regions/en/oehemhealthcareworkers.pdf
Assessment	Examinations 70% Assignment(s) 20% Participation 10% 100%
Language	English

Course Title	**Infection prevention and control: practical approach**				
Course Code	IPC630				
Course Type	Elective				
Level	Master (2nd cycle)				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Constantinos Tsioutis, George Efstathiou				
ECTS	8	Lectures / week	2 Hour/14 Weeks	Laboratories / week	1 Hours/14 Weeks
Course Purpose and Objectives	This elective course will provide a practical approach to infection prevention and control, by applying various practices in the context of case studies. It aims to equip students with hands-on performance of practical matters surrounding infection prevention and control.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Describe and analyse current recommendations on hand hygiene practice. • Demonstrate existing hand hygiene practices. • Discuss strategies to improve hand hygiene compliance. • Describe the types and indications of isolation precautions. • List the types of personal protective equipment used in isolation precautions. • Demonstrate personal protective equipment donning and removing. • Identify and discuss measures of prevention of intravascular device-associated infections. • Demonstrate aseptic technique during intravascular catheter insertion and management. • Identify and discuss measures of prevention of catheter-associated urinary tract infections. • Demonstrate aseptic technique during insertion and management of a urinary catheter. • Demonstrate safe work practices to prevent exposure to bloodborne pathogens through injuries with sharps. • Identify and discuss measures of prevention of surgical site infections • Identify and discuss measures of prevention of ventilator-associated pneumonia • Identify audit tools and methods used in infection prevention and control practice.				

<table>
<tr><td></td><td colspan="3">• Discuss, analyse and demonstrate communication skills during application of infection prevention and control strategies.</td></tr>
<tr><td>Prerequisites</td><td>Completion of all courses of 1st and 2nd semester</td><td>Co-requisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">This course focuses on:
• The analysis and demonstration of current recommendations and practices on hand hygiene
• The analysis of causes of low compliance to hand hygiene and strategies that contribute to improvement
• The types of isolation precautions, personal protective equipment that is used and the practice of personal protective equipment donning and removal
• The measures and aseptic technique used to prevent
o intravascular device-associated infections
o catheter-associated urinary tract infections
o surgical site infections
o ventilator-associated pneumonia
• The safe work practices to prevent needlestick injuries
• Auditing in infection prevention and control
• Communication skills in infection prevention and control</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Face to face</td></tr>
<tr><td>Bibliography</td><td colspan="3">• Damani, N (ed). Manual of infection prevention and control. 3rd Edition. Oxford: Oxford University Press; 2011.
• International Federation of Infection Control. Basic Concepts of Infection Control. 3rd Edition. IFIC; 2016. Available at: http://theific.org/basic-concepts-english-version-2016
• Jarvis WR (ed). Bennet & Brachman's Hospital Infections. 6th Edition, Wolters Kluwer & Lippincott Williams & Wilkins; Philadelphia, USA; 2007.
• Korniewicz DM (ed). Infection Control for Advanced Practice Professionals. DEStech Publications;2014.
• Lo E, Nicolle LE, Coffin SE, et al. Strategies to prevent catheter-associated urinary tract infections in acute care hospitals: 2014 update. Infect Control Hosp Epidemiol. 2014 Sep;35 Suppl 2:S32-47. Available at: http://www.jstor.org/stable/pdf/10.1086/675718.pdf?refreqid=excelsior:9fb39d18f69d1288bad3bf6d49438f12
• Marschall J, Mermel LA, Fakih M, et al. Strategies to prevent central line-associated bloodstream infections in acute care hospitals: 2014</td></tr>
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<tr><td></td><td>update. Infect Control Hosp Epidemiol. 2014 Sep;35 Suppl 2:S89-107. Available at: http://www.jstor.org/stable/pdf/10.1086/676533.pdf?refreqid=excelsior%3A30a19cd2e2eeb5e1da901f29bdef4b98
• Mayhall GC (ed). Hospital epidemiology and infection Control. Latest Edition, Philadelphia, Lippincott, Williams and Wilkins.
• Siegel JD, Rhinehart E, Jackson M, Chiarello L, and the Healthcare Infection Control Practices Advisory Committee, 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings. Available at http://www.cdc.gov/ncidod/dhqp/pdf/isolation2007.pdf
• U.S. Department of Health and Human Services. National Institute for Occupational Safety and Health Alert: Preventing Needlestick Injuries in Health Care Settings. DHHS (NIOSH) Publication No. 2000–108. Available at https://www.cdc.gov/niosh/docs/2000-108/pdfs/2000-108.pdf
• Wenzel RP, Bearman GMI, (eds). A Guide to Infection Control in the Hospital. Latest edition, International Society for Infectious Diseases.
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<tr><td>Assessment</td><td>Examinations 70%
Assignment(s) 20%
Participation 10%
100%</td></tr>
<tr><td>Language</td><td>English</td></tr>
</table>

Course Title	**Foodborne diseases and food safety**				
Course Code	IPC631				
Course Type	Elective				
Level	Master (2nd cycle)				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Mary Eleftheriadou				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	This course focuses on presenting to the student the latest knowledge in food microbiology and food safety so that they can understand the important role that microbes play in regards to food (production, spoilage and disease). Emphasis will be given to foodborne diseases, their epidemiology and current causative microbial hazards, as well as methods of control. Reference to the basic hygiene rules during food production will be offered and to the modern preventive food safety assurance systems such as HACCP and their prerequisite programs.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Explain the necessity and importance of providing safe food for public health assurance • Describe the multiple roles that microorganisms play in food • Recall the most important pathogens and the factors leading to foodborne disease • Describe the basic food hygiene and safety rules • Evaluate evidence related to food and water borne disease epidemics • Suggest Preventative and control measures for foodborne and waterborne diseases. • Outline the basic principles of preventative systems of food assurance (HACCP) and to suggest critical control points during food production • Demonstrate an ability to write academic essays applying critical thought and using relevant literature and other scientific/academic sources.				

<table>
<tr><td>Prerequisites</td><td>Completion of all courses of 1st and 2nd semester</td><td>Co-requisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">The course focuses on:
History and evolution of food safety and modern food problems affecting public heath
The main categories of microorganisms and their importance in food production, food spoilage and foodborne disease, with special reference to pathogens and their sources
The characteristics of microbial multiplication in foods and factors affecting it
The main foodborne disease categories such as foodborne infections and food intoxications, their basic characteristics and epidemiology
Modern epidemics linked to the consumption of contaminated food and water, means of investigation, prevention and control
Indicator microorganisms and microbiological criteria in foods
Basic hygiene and safety rules in food production
The role of the food handler
Preventive systems of food safety assurance (HACCP) and their prerequisite programs</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Face to face</td></tr>
<tr><td>Bibliography</td><td colspan="3">Adams M and M. Moss, Food Microbiology, 3rd ed., Royal Society of Chemistry, 2008
Bibek Ray, Arun Bhunia, Fundamental Food Microbiology, 5th ed., 2013 by CRC Press
Madigan MT, Martinko JM, Dunlap PV, Clark DP, Biology of Microorganisms, 14th ed., 2014
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Montrille T., Food Microbiology, 3rd edition 2012.
Ricke, S., Donaldson, T., and Philips, C., Food Safety – Emerging Issues, Technologies and Management, 2015. ISBN 97801280066043
Motayemi Y.and H,Lelieveld, Food Safety Management- A practical guide for the Food Industry, 2014</td></tr>
<tr><td>Assessment</td><td colspan="3">Examinations 70%
Assignment(s) 20%
Participation 10%
100%</td></tr>
<tr><td>Language</td><td colspan="3">English</td></tr>
</table>

Course Title	**Travel-associated and tropical diseases**				
Course Code	IPC632				
Course Type	Elective				
Level	Master (2nd cycle)				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	Androula Pavli				
ECTS	8	Lectures / week	3 Hours/14 Weeks	Laboratories / week	None
Course Purpose and Objectives	This course aims to familiarize students with the types, definitions and prevention of travel-related infections and tropical diseases. It provides knowledge of the epidemiology, prevention and management of diseases, especially infections in travellers, and the impact of imported infections on disease epidemiology and public health. In addition, the course will provide students with the necessary background on the prevention of infection in travelers prior to travel, based on individual risk assessment, and management according to travel and traveller's characteristics, as well as on the management of the ill traveller after return.				
Learning Outcomes	Upon successful completion of the course, students should be able to: • Define the epidemiology of diseases in travelers • Describe the transmission, clinical picture, investigation and management of infections / tropical diseases and relative risk in travellers • Elaborate on the epidemics and endemicity of infections worldwide through use of authorized sources of information • Assess risk and management of travelers before travel • Evaluate and manage high-risk travellers • Determine appropriate preventive measures prior to travel • Evaluate and manage the ill traveller after return				
Prerequisites	Completion of all courses of 1st and 2nd semester	Co-requisites	None		
Course Content	The course focuses on: • The epidemiology of diseases in travellers				

	• Specific diseases such as food- and water- borne disease (traveler's diarrhoea, hepatitis A & E, typhoid fever, cholera, parasitoses, etc), bloodborne and sexually transmitted diseases (hepatitis B and C, HIV), diseases transmitted by animal bite (e.g. rabies), vector-borne diseases (yellow fever, Dengue fever, Zika, Chikungunya, etc), and diseases transmitted through contact with water (e.g. schistosomiasis, leptospirosis) • Pre-travel preparation of travellers: vaccination, chemoprophylaxis, general precautions • Special groups of travelers (e.g. missions, army, long-term travelers, travelers visiting friends and relatives-VFRs) • Travellers with special requirements (e.g. children, pregnant, elderly, immunosuppressed, people with chronic diseases)
Teaching/Methodology	Face to face
Bibliography	• CDC. General recommendations on immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR Recomm Rep. 2011 Jan 28;60(RR-2):1–64. Available at: https://www.cdc.gov/mmwr/preview/mmwrhtml/rr6002a1.htm • CDC. Malaria surveillance—United States, 2011. MMWR Surveill Summ. 2013 Nov 1;62(5):1–17. Available at: https://www.cdc.gov/mmwr/preview/mmwrhtml/ss6205a1.htm • Chen LH, Hill DR, Wilder-Smith A. Vaccination of travelers: how far have we come and where are we going? Expert Rev Vaccines. 2011 Nov;10(11):1609–20. • Chen LH, Wilson ME, Davis X, Loutan L, Schwartz E, Keystone J, et al. Illness in long-term travelers visiting GeoSentinel clinics. Emerg Infect Dis. 2009 Nov;15(11):1773–82. Available at: https://wwwnc.cdc.gov/eid/article/15/11/09-0945_article • Clerinx J HD, von Gompel A. Post-travel screening. In: Keystone J, Kozarsky P, Freedman DO, Nothdurft HD, Connor BA, editors. Travel Medicine. 3rd ed. Philadelphia: Saunders Elsevier; 2013. p. 467–74. • Hill DR, Ericsson CD, Pearson RD, Keystone JS, Freedman DO, Kozarsky PE, et al. The practice of travel medicine: guidelines by the Infectious Diseases Society of America. Clin Infect Dis. 2006 Dec 15;43(12):1499–539. Available at: https://academic.oup.com/cid/article-lookup/doi/10.1086/508782 • International Society of Travel Medicine. Body of knowledge for the practice of travel medicine—2012. Atlanta: International Society of

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<tr><td></td><td>Travel Medicine; 2012 [cited 2014 Oct 1]. Available from: http://www.istm.org/bodyofknowledge
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• Pavli A, Smeti P, Spilioti A, Silvestros C, Katerelos P, Maltezou HC. Vaccinations and malaria prophylaxis for long-term travellers travelling from Greece: A prospective, questionnaire-based analysis. Travel Med Infect Dis. 2014;6 Pt B:764-70.
• Swaminathan A, Torresi J, Schlagenhauf P, Thursky K, Wilder-Smith A, Connor BA, et al. A global study of pathogens and host risk factors associated with infectious gastrointestinal disease in returned international travellers. J Infect. 2009 Jul;59(1):19–27.</td></tr>
<tr><td>Assessment</td><td>Examinations 70%
Assignment(s) 20%
Participation 10%
100%</td></tr>
<tr><td>Language</td><td>English</td></tr>
</table>

Course Title	**Current issues in Infection prevention and control**				
Course Code	IPC633				
Course Type	Elective				
Level	Master (2nd cycle)				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	To be selected on the basis of the specific themes that will be included.				
ECTS	8	Lectures / week	3hrs / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	The course focuses on the analysis and presentation of specific topics related to infection prevention and control. The topics will be selected each semester, expected to have a direct or an indirect relationship with current issues and trends in the field, eg. • New resistance patterns • Emerging infectious diseases • Recent outbreaks • Population movement-related infections • New trends in infection prevention and control practices				
Learning Outcomes	Upon successful completion of this course students should be able to: • identify and explain the objectives of the course as defined by the selected course instructor				
Prerequisites	Completion of all courses of 1st and 2nd semester	Co-requisites	None		
Course Content	The content of the course will be determined by the selected course instructor. Objectives and directions will be set in cooperation with the Program Coordinator.				
Teaching Methodology	Face-to-face (lectures, student-led presentations, coursework, commentaries and interpretation of material sources, oral presentations and essays, small-group tutorials, formative feedback on coursework, independent study and guided research)				

Bibliography	Bibliography will be drawn by the selected course instructor on the basis of the content of the specific topic to be determined each semester.
Assessment	Examinations 70% Assignment(s) 20% Participation 10% 100%
Language	English

Course Title	**Master thesis**				
Course Code	IPC690				
Course Type	Compulsory				
Level	Master (2nd cycle)				
Year / Semester	2nd Year / 3rd Semester				
Teacher's Name	All members of teaching personnel				
ECTS	14	Lectures / week	None	Laboratories / week	None
Course Purpose and Objectives	This course aims to familiarize students with all necessary actions in preparing, submitting and performing a research project. These steps include submitting a research proposal, preparing a research protocol, performing primary or secondary research, summarizing findings, reviewing the literature, developing and implementing authorship abilities and presenting research. This course will provide an opportunity for students to deepen their academic research capabilities in a specialized area in Infection prevention and control and antimicrobial resistance.				
Learning Outcomes	Upon successful completion of this course students should be able to: • recognize and describe a specialized area in infection prevention and control and antimicrobial resistance • design an appropriate research protocol based on their primary endpoints and study objectives • produce original research work • perform literature review and criticize relevant literature • implement academic writing capacity • present and defend their research in front of an audience				
Prerequisites	Completion of all courses of semesters 1 & 2	Co-requisites	None		
Course Content	The course aims to provide an opportunity for students to deepen their academic research capabilities in a specialized area in infection prevention and control and antimicrobial resistance. Title, type of research and contents will be determined by the teacher/supervisor and the student according to established guide to master thesis.				

Teaching Methodology	Face-to-face, Guidance, Counselling, Research, Presentation and thesis defense
Bibliography	
Assessment	Written thesis 60% Presentation and Defense of thesis 40% 100%
Language	English