UNIVERSITY OF PELOPONNESE

School of Human Movement and Quality of Life Sciences

Faculty of Nursing

UNDERGRADUATE STUDY GUIDE

ACADEMIC YEAR 2014-2015

SPARTI 2014

Mission and Aims of the Faculty of Nursing University of Peloponnese

The Faculty of Nursing University of Peloponnese was founded according to the published issue of Government Gazette 3391/2005/FEK/240/4-10-2005 and it began to function from the academic year 2005-2006, providing possibilities for a creative student life in an exceptional, natural and cultural environment in the historical area of Sparta. The course provides modern studies in the fields of Nursing Science, in both professional and social needs of our era.

The mission of the Faculty of Nursing is to cultivate and promote the knowledge concerning the benefit of nursing services, and to give students essential skills in order to complete their training for a scientific and professional career. The organization of undergraduate studies gives to the students appropriate scientific training with specialized knowledge in specific subjects of the department. The contribution of the Faculty of Nursing is the development of scientific studies in combination with the requirements of high quality services and the use of new technologies.
The education provided by the Faculty of Nursing, aims in:
i) the effective promotion and exploitation of nursing methods and techniques for the promotion and assurance of the quality of life in health and illness, that is, health care of a healthy person (prevention, treatment, rehabilitation) or the one that is sick, the family and the community.
ii) the rational management and their economic exploitation, so that the implementation of an integrated system of all parameters of Nursing Management in Greece is achieved and
iii) the promotion of the modern sector of Nursing Management with the use of new technologies.

Our goal is to expand the modern nurse's role, to a professional in health, social co-designer public official researcher, executive of education and mediator in the frame of multiform social relations and interactions.

UNDERGRADUATE PROGRAM OF STUDY

INFORMATION ON THE LEVEL OF THE QUALIFICATION

Level of qualification:
Undergraduate

Mode of study:
Full-time study

Official length of programme:
Minimum length of studies: eight (8) semesters or four (4) years
Number of weeks for teaching and examinations per academic year: 32 (26 for teaching and 6 for examinations)
*Note: Furthermore, there are 4 additional (*optional) weeks for lectures and 3 for examinations.
Total students' workload for the whole duration of studies: 6.000 hours
Minimum Number of ECTS credits required for graduation: 240

Programme requirements (for students who enrolled the academic year 2014-2015)

The following prerequisites have to be fulfilled by the student in order to graduate from the Department of Nursing of the University of the Peloponnese:

- Attendance of at least 8 semesters
- Success in 44 compulsory courses which constitute the core of the curriculum (216 ECTS),
- Success in at least 5 electives , which are chosen from almost twice the number of courses offered (15 ECTS) and
- Final Project (9 ECTS) or success in 3 electives.

The above requirements correspond to at least **240** ECTS credits.

Programme requirements (for students who enrolled the academic year 2013-2014)

The following prerequisites have to be fulfilled by the student in order to graduate from the Department of Nursing of the University of the Peloponnese:

- Attendance of at least 8 semesters
- Success in 46 compulsory courses which constitute the core of the curriculum
- Success in at least 12 electives , which are chosen from almost twice the number of courses offered.

The above requirements correspond to at least **240** ECTS credits.

Programme requirements (for students who enrolled the academic year 2011-2012, 2012-2013)

The following prerequisites have to be fulfilled by the student in order to graduate from the Department of Nursing of the University of the Peloponnese:

- Attendance of at least 8 semesters
- Success in 46 compulsory courses which constitute the core of the curriculum
- Success in at least 16 electives , which are chosen from almost twice the number of courses offered.

The above requirements correspond to at least **240** ECTS credits.

Grading system

The student's achievement in each course or other educational activity is given in integer grades on a scale of 0 to 10. Successful grades are those equal to 5 or higher. In percentages in the centigrade scale, and given that the maximum performance is 100%, the required minimum performance for success equals to 50%.

The graduation grade is given in decimal numbers with two decimal digit and ranges from 5,0 to 10,0. The graduation grade is complemented with one of the distinctions "Excellent", "Very Good" and "Good", according to the grade as follows:

"Excellent":	For grades from 8,50 up to 10,00	or	from 85% up to 100%
"Very Good":	For grades from 6,50 up to 8,49	or	from 65% up to 84,99%
"Good":	For grades from 5,00 up to 6,49	or	from 50% up to 64,99%

The above three distinctions are used only for the graduation grade and not for the performance of students in the various courses and other educational activities in the context of the study programme.

Calculation of the graduation grade

1. For the calculation of the graduation grade, all the grades of the required courses are taken into account, as well as the grade of the dissertation when this is defined in the Study Program.
2. a) For the calculation of the graduation grade, the grade of each course is multiplied by a coefficient, which is called gravity coefficient of the course and the sum of the apportioned results is divided by the sum of the gravity coefficients of all courses attended by the student.
   b) The gravity coefficient ranges from 1,0 to 2,0 and is calculated as follows:
   - Courses with 1 or 2 grades have a gravity coefficient of 1,0
   - Courses with 3 or 4 grades have a gravity coefficient of 1,5

- Courses with more than 4 grades have a gravity coefficient of 2,0

3. If a student has been graded in more courses than the least required for graduation, according to the Study Program, he/she can exclude from calculation of the graduation grade certain electives on condition that the total sum of resulting from the rest of the courses is at least equal to the required number for graduation.

UNDERGRADUATE PROGRAM OF STUDY FOR STUDENTS WHO FOR STUDENTS WHO ENROLLED BEFORE THE ACADEMIC YEAR 2014-2015

(2011-2012, 2012-2013, 2013-2014)

CURRICULUM
AND COURSE DESCRIPTION

1st SEMESTER

COMPULSORY COURSES

ANATOMY I

COURSE CODE
C001
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
1st Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of this course is to get the students to meet, consolidate and learn basic and specific knowledge of Descriptive and Functional Anatomy. Moreover, they should be able to understand the importance of the knowledge and study of the anatomical structures, both on a macroscopic and a microscopic level, as well as its role in the clinical approach and practice.
Embryology and Histology, as an integral part of Anatomy, provide the knowledge about creation, development and structure of the tissues and organs and through this the understanding of many related diseases and genetic abnormalities.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
Theoretical Part

- Systematic Anatomy of the Locomotor System
- Systematic Anatomy of Cardiovascular System
- Systematic Anatomy of Respiratory System
- Anatomy of the Lymphatic System
- Basic Embryology

Laboratory Part
Students will use anatomy mannequins, and they will learn to recognise various tissues, in microscopic level.
RECOMMENDED READING

- Baltopoulos, P., Fuctional Anatomy (Vol I and II). BROKEN HILL PUBLISHERS LTD (in Greek)
- Richard, D., Adam, M., Wayne, V. (2004) GRAYS Anatomy for students. BROKEN HILL PUBLISHERS LTD (in Greek)

TEACHING METHODS
Lectures, Tutorials
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

BIOSTATISTICS

COURSE CODE
C010
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
1st Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
Through this course students can obtain basic knowledge so that will be capable to understand and use the basic tools of Biostatistics, which is useful for the analysis of data related to health fields. The main techniques of Biostatistics are presented while emphasis is given on the choice of the best method and on the interpretation of the results.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
- **Introduction to Biostatistics:** The notion of Biostatistics, Goal of Biostatistics, Terminology and basic notions
- **Data Collection and Presentation:** Frequency tables, Charts, Descriptive measures
- **Introduction to Probability Theory:** Computations between events, Definitions of Probability, Special distributions, Normal distribution
- **Introduction to Inferential Statistics:** Statistical inference, Confidence intervals
- **Hypothesis Testing (one sample):** General ideas about hypothesis testing, z test, t test, Test for binomial proportion
- **Hypothesis Testing (two or more samples):** Independent samples (known variances, unknown but equal variances), Dependent samples, Difference between two proportions, Analysis of variance (ANOVA)
- **Non Parametric Tests:** Sign tests (one and two samples), Mann-Whitney test

- **Analysis of Contigency Tables:** x^2 test of independence, McNemar test, Odds ratio, Relative risk, Screening tests, Sensitivity - Specificity, Prevalence and screening tests' predictive value
- **Correlation - Simple Linear Regression:** Pearson's and Spearman's correlation coefficient, Simple regression model, Least squares estimators

RECOMMENDED READING

- Pagano, M. and Gauvreau, K. (2000). Principles of Biostatistics, Translation: Dafni, U., ELLIN Editions, Athens (in Greek)
- Stavrinos, V. and Panagiotakos, D. (2007).Biostatistics, Guttenberg Editions, Athens (in Greek)

TEACHING METHODS

Lectures, Laboratory

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

BIOLOGY

COURSE CODE

C003

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

1st Semester

NAME OF LECTURER

Andrea Paola Rojas Gil, Lecturer

OBJECTIVE OF THE COURSE

The aim of the course is the understanding of basic cellular functions, structures, organization and differentiation.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Structure and function of biomolecules I: Amino acids, peptides, proteins, enzymes, nucleic acids,

Structure and function of biomolecules II: carbohydrates, lipids. Higher organization levels of macromolecules.

Viruses: nucleoprotein complexes, reproduction, prions, virions

Prokaryotic cell: morphology, comparison with the eukaryotic cell, bacterial reproduction and bacterial cultures methodology.

Eukaryotic cell I: Structure and function of membranes, permeability of the membrane to micromolecules, active membrane transport, membrane potential, membrane signal transduction.

Eukaryotic cell I: organelles, cytoplasmic membrane system, cellular secretion and endocytosis, mitochondria and chloroplast, cytoskeleton, nucleus.
Genetic Matherial: DNA structure and organization, molecular organization of the genome, chromosome structure, Genetic information flow.
Regulation of gene expression I**:** regulation at the transcriptional and translational level. Biologically functional proteins
Regulation of gene expression I: regulation of cell development and differentiation. Stem cells biology.
Cellular interactions: intracellular signal transduction systems, extracellular matrix, cellular recognition and adhesion, cellular communication.
Cell cycle: regulation and dysfunctions of cellular division, mitosis and meiosis, genetic recombination, cell death.
Cancer: causes, characteristics of cancer cells, oncogenes, tumor suppressive's genes, metastasis, molecular diagnosis and therapy.
Applications of molecular biology and biochemistry in diagnosis and therapy: restriction enzymes, DNA cloning, polymerase chain reaction (PCR), production of recombinant proteins
Applications of molecular biology diagnosis and therapy II: gene therapy, gene imprinting, and forensic medicine.

RECOMMENDED READING

- Cell Biology. Basilis Marmaras and Maria Lambropouloy. Typorama editions Patras (in Greek).
- Basic principles of cellular biology (2 Volumes) Alberts et al. BROKEN HILL PUBLISHERS LTD (in Greek)

TEACHING METHODS
Lectures, Practical laboratories
ASSESSMENT METHODS
Progressive exam: 25% (optional)
Laboratory: 15%
Investigative work: 10% (optional)
Final exam: 50%
LANGUAGE OF INSTRUCTION
Greek (English, Spanish, Czech)

BIOPHYSICS

COURSE CODE
C004
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
1st Semester

NAME OF LECTURER

Georgios I. Panoutsopoulos, Lecturer

OBJECTIVE OF THE COURSE

The objective of this course is to provide students with basic understanding of the physical phenomena, properties and parameters that are involved in core functions of the living organism. Through this course, students are introduced to the physical processes that take place inside the human body in order to regulate organ functions and interactions, the physical laws that describe these processes, as well as the basic operation principles of the most widely used medical devices, where various physical parameters are recorded or monitored with the use of which we are able to record, monitor and assess these physical processes.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to Biophysics and Biomedical technology. General overview - thematic units. Research directions and open issues that the modern biomedical research is called to solve.
- Fundamental principles for the acquisition and processing of biological signals. Sampling and quantization of analogue signals. Biological signal processing and areas of application.
- Medical imaging and medical image processing. Basic medical imaging systems. Types of medical image and imaging technologies. Basic procedures of medical image digital processing.
- Fluid mechanics. Hemodynamics. Blood. Vessels. Blood pressure and flow. Blood flow characteristics. Physiological arterial pressure
- Invasive and non-invasive methods for arterial pressure measurement.
- Bioelectricity . The application of the concepts of action potential, current, resistance and capacitance to the biological process of nerve and muscle conduction. The electrical properties of biological cells.
- Physics of the cardiovascular system.
- Acquisition, processing and interpretation of the electrocardiogram.
- Brain function and the electroencephalogram. Acquisition, processing and characteristics of the electroencephalogram. Action potential and evoked potentials.
- Acquisition and processing of the electromyogram.
- Mechanics of the respiratory system. Respiratory function tests. Pulmonary volumes and capacities. Methods of measurement of pulmonary volume changes: the techniques of spirometry and plethysmography.
- The physics of vision. Lenses. Image formation. Optical defects of the eye.
- Ultrasound theory. Production and propagation of acoustic waves through biological tissues. Interaction of acoustic waves with living matter. The Doppler effect. Study of blood flow. Display techniques.
- The Interaction of ionizing radiation with matter. Radiography Physics and Instrumentation. Classical x-ray imaging techniques. Principles of digital x-ray imaging

RECOMMENDED READING

- D. Koutsouris, S. Pavlopoulos, A. Prentza: "An Introduction to Biomedical Technology and Medical Signal Processing," 2003 Tziolas Publications, ISBN 960-418-026-6 (in Greek)
- I.P. Herman: J.R. Cameron, J.G. Skofronick, R.M. Grant: "Physics of the Human Body", 2009 BROKEN HILL PUBLISHERS LTD Parissianos Ltd. Publications, ISBN 978-960-399-914-0 (in Greek)

TEACHING METHODS

Lectures, Tutorials and Laboratory experiments or Demonstrations of biomedical applications through Internet.

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

INTRODUCTION TO NURSING

COURSE CODE

C005

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

1st Semester

NAME OF LECTURER

Sofia Zyga, Assistant Professor

OBJECTIVE OF THE COURSE

The objective is to familiarise students with the contemporary Nursing Discipline so that they can perceive its conceptual and philosophical framework, as well as its clinical aspects. The contribution of nursing practice in the prevention and treatment of the disease, health restoration and promotion is described, as well as the dynamics of Nursing in contemporary society as a discipline and profession.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Definitions and conceptual framework of nursing
- Specification of the philosophy of nursing
- Historical evolution of nursing in Greece and abroad
- Health: definitions – influencing factors
- Theories on disease – pathogenesis
- Theory – nursing theories – types – review of nursing theories
- Holistic nursing
- Nursing Process
- Nursing documentation and Nursing care plans
- Clinical history
- Communication – basic principles of effective communication

- Issues of morals and ethics
- Professional nursing standards and roles. Professional decisions

Laboratory course

- The provision of opportunities to consolidate theoretical knowledge and the ability to develop a dialogue and critical investigation of queries and considerations resulting from the application of theories and models in modern practice (clinical – research – training – management).
- The development of basic techniques and skills required in clinical practice.
- The development of effective communication skills, clinical history, nursing process and nursing care plans.

RECOMMENDED READING

- Introduction to Nursing, Sofia Zyga (2010). BETA Medical Editions, Athens (in Greek).
- Fundamentals of Nursing, Carol Taylor, Carol Lillis & Priscilla Le Mone (2006). BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written examination

LANGUAGE OF INSTRUCTION

Greek

INTRODUCTION TO INFORMATICS

COURSE CODE

C044

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

1st Semester

NAME OF LECTURER

Athina Lazakidou, Lecturer

OBJECTIVE OF THE COURSE

The objective of this course is to get students familiarized with the main concepts of Computer Science and Internet Technologies as well as to provide them with the main knowledge and skills that will help them use the computer systems in their work. The participation in the associated lab is considered to be necessary in order that the students complete the course successfully.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical course

Within the context of this subject, emphasis will be placed on topics such as:

- Introduction to Computer Science and Information Technology

- Hardware
- Software
- Internet Technologies and Applications
- Information Security
- Semantic Web
- Web 2.0 & Web 3.0
- Social Networks
- Introduction to Information and Knowledge Society
- Computer Science and Education – E-Learning Technologies
- Electronic Communication Systems
- New Technologies and Information Services
- New Technologies and Communication Services

Laboratory course

- MS Office (Word, Excel, PowerPoint)
- Use of New Collaborative Technologies and Systems
- Social Networks

RECOMMENDED READING

- New Technologies and Informatics and Communication Services, Athina Lazakidou (in Greek).
- Introduction to Informatics, Vlachopoulos, Vol. A, Klepetsanis (in Greek).

TEACHING METHODS

Lectures, Laboratories

ASSESSMENT METHODS

- Laboratory Exercises (40%)
- Final Exam (60%)

LANGUAGE OF INSTRUCTION

Greek

ELECTIVE COURSES

HEALTH LEGISLATION

COURSE CODE

E059

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

1th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

- This course aims in the acquisition of knowledge with regard to:

- The significance of Law in Healthcare,
- The significance of Law during Nursing profession practice,
- Patient's rights and
- The legislation that conditions the operation of Health services (Hospitals, Community structures).

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to Health Law and basic Law concepts.
- The legal good of Health.
- The concept and importance of individual rights.
- The constitutional protection of individual rights.
- The legal nature of nurse-patient's relation.
- Civil Liability: legal and illegal responsibility.
- Conditions for the genesis of civil liability (illegal behaviour, culpability, occurrence of harm, causal affinity between illegal and guilty behaviour and harm) and consequences from the genesis of civil liability (compensation).
- Civil liability during the exercise of nursing profession (Civil liability of nurse personnel as public employee, as private employee and as freelancer).
- The penal responsibility: crime, penal sanctions
- The penal responsibility during the exercise of Nursing profession in both public and private sector.
- The disciplinary Nursing responsibility in both public and private sector.
- Subjects of legislation in the clinical research.
- Legislation of Hospitals and Community structures.

RECOMMENDED READING

- Ethics in Nursing Practice, Sara Fry & Megan-Jane Johnstone(2005). BROKEN HILL PUBLISHERS LTD (in Greek).
- The obligations of Nurses (2007), Philomila Obesi, BETA Medical Editions, Athens (in Greek).
- Law in Healthcare Health services, Health Professionals, Patients (2009). Maria Mitrosili, Papazisi, Athens (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written examination

LANGUAGE OF INSTRUCTION

Greek

COMMUNICATIONS SKILLS

COURSE CODE

E060

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

1st Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

This course is designed to provide students an in depth look at the concepts, principles and skills of human communication and developing specific skills. The course emphasizes also the importance of ethics in communication and encourages students in developing their analytical abilities into their workplace and especially in the hospital.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Communication - The meaning of Communication
- Principles of Communication
- Verbal communication – "Black and white" words
- Non verbal communication and non verbal messages
- Interpersonal communication
- Human communication in the workplace
- Communication into the hospital
- Conversation-Holding effective conversation
- Listening effectively
- Supporting and comforting others
- The meaning of empathy
- The meaning of "time"
- Using interpersonal influence ethically
- Developing communication skills
- Communication skills tests

RECOMMENDED READING

- Sheldon, K.L. Communication for Nurses, Ed. BROKEN HILL PUBLISHERS LTD, 2010 (in Greek).
- Piasecki, M. The Art of Communication in the Health Area, Ed. Papasotiriou, Athens, 2008 (in Greek).
- Verderber, R, Verderber, K.s. Skills of Interpersonal Communication, Ed. ION, Athens, 2006 (in Greek).
- DeVito, A.J. Human Communication. Ed. ION, Athens, 2004
- Tierney, E. 101 Ways to better Communication, Ed. Kritiki, Athens, 2002 (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

Presentation of a specific topic during the course (optionally)

LANGUAGE OF INSTRUCTION

Greek

ENGLISH (TERMINOLOGY) I

COURSE CODE
E054
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
1st Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is to familiarize students with the basic terms and concepts in nursing. Students should be able to understand scientific nursing and medical articles and translate simple articles in Greek as well as understand and use the grammatical-syntactical phenomena of the English language especially those encountered in nursing texts.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
a) Theoretical course
In the theory lectures, students are provided with nursing-medical texts and through analysis of the texts and various learning tasks, there is an attempt to make them understand the structure of the language in nursing texts. More specifically, students study and analyze, in terms of vocabulary, syntax and meaning, texts which deal with:

- Nutrition: Alcohol - Calcium
- Carbohydrates – Fats
- Iron – Milk
- Preservatives – Proteins
- Vitamins
- First Aid and Emergencies: Haemorrhaging
- Cardiopulmonary Resuscitation
- Chest injuries
- First aid techniques
- Fractures
- Head injuries – Concussion
- Hypovolemic shock
- Sports injuries

b) Tuition
In tuitions, students study and give the meaning in the Greek language of authentic articles. They are also asked to study and label diagrams of parts and systems of the human body. More specifically, they deal with systems and articles such as:

- Human Anatomy

- Brain: Functions of the Brain
- Digestive system
- The Heart
- The Nursing Process
- Qualities and duties of Nurses
- Hypertension
- Obesity
- Smoking and Cardiovascular Diseases
- Diabetes
- Allergy, Preservatives and Asthma
- First Aid: Hypovolemic shock
- First Aid: Cardiopulmonary Resuscitation

RECOMMENDED READING

- Medical English, P. Kontopodis, 2006 (in Greek)
- English-Greek Dictionary of Biological and Medical Terms, Patargias-Sekeris 2006 (in Greek)

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek / English

2nd SEMESTER

COMPULSORY COURSES

ANATOMY II

COURSE CODE

C007

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of this course is to get the students to meet, consolidate and learn basic and specific knowledge of Descriptive and Functional Anatomy. Moreover, they should be able to understand the importance of the knowledge and study of the anatomical structures, both in macroscopic and microscopic level, as well as its role in the clinical approach and practice.

Embryology and Histology, as an integral part of Anatomy, provide the knowledge about the creation, development and structure of the tissues and organs and through this the understanding of many related diseases and genetic abnormalities.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical Part

- Gastrointestinal System
- Urogenital System
- Reproductive System
- Pelvis-Spine
- Muscle fatigue – Musculoskeletal injuries – Fractures
- Endocrine glands - Neuroendocrine system
- Pancreas-Paraganglia
- Mammary Gland
- Meninges- Cerebrospinal fluid
- Thalamus- Hypothalamus-Hypophysis
- Nervous System (Cells, Brain, Spinal cord)
- Pain, Pyramidal and Extrapyramidal System
- Autonomic Nervous System

Laboratory Part

Students will use anatomy mannequins, and they will learn to recognise various tissues, in microscopic level.

RECOMMENDED READING

- Baltopoulos, P., Fuctional Anatomy (Vol I and II). BROKEN HILL PUBLISHERS LTD (in Greek).
- Richard, D., Adam, M., Wayne, V. (2004) GRAYS Anatomy for students. BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

FUNDAMENTALS OF NURSING I

COURSE CODE

C011

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

2th Semester

NAME OF LECTURER

Sofia Zyga, Assistant Professor

OBJECTIVE OF THE COURSE

The objective is for students to acquire the basic scientific knowledge necessary to deliver quality nursing care and to develop the fundamental techniques and skills required in daily clinical practice.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Description – measurement and assessment of vital signs.
- Patient and environment hygiene and safety.
- Basic principles of sterilisation, antisepsis and disinfection.
- Basic principles for the prevention and dissemination of nosocomial infections.
- General principles of drug administration.
- Basic principles of fluid and electrolyte administration.
- General principles of transfusion of blood and blood derivatives.
- Nutrition – Feeding of patients.
- Oxygen therapy.
- Basic principles of trauma care.
- Impaired skin integrity care – prevention of bedsores.
- Basic principles of stoma care.
- Appropriate and efficient admission of patients in hospitals or specialised healthcare units.

Laboratory course

The objective is to provide opportunities to consolidate theoretical knowledge and develop basic techniques and skills required in clinical practice. Each nursing procedure is demonstrated to small groups of students and then followed by practical application on dummies.

- Patient approach and assessment of their health needs and problems.
- Measurement – recording – assessment of vital signs.
- Personal hygiene of self-reliant and bedridden patients.
- Basic principles of sterilisation, antisepsis and disinfection.
- Basic principles of prevention of nosocomial infections.
- Drug administration.
- Blood sugar measurement – insulin administration.
- Patient feeding (enteral – parenteral).
- Application of oxygen therapy.
- Skin care – prevention of bedsores.
- Trauma care.
- Appropriate and efficient admission of patients in hospitals wards or specialised healthcare units.

RECOMMENDED READING

- Clinical Nursing Skills and Nursing Process. Lynn P.(2011). BROKEN HILL PUBLISHERS LTD (in Greek).

- Basic and Advanced Nursing Processes, Mosby's.(2011). BETA MEDICAL EDITIONS Medical Editions, Athens (in Greek).
- Fundamentals of Nursing and Clinical Nursing Skills, Perry G.A.(2011). BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS
Lectures, Tutorials, Practical application on dummies
ASSESSMENT METHODS
60% by written examination and 40% by assessment of performance of nursing procedures in the laboratory
LANGUAGE OF INSTRUCTION
Greek

BIOCHEMISTRY

COURSE CODE
C054
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
2nd Semester
NAME OF LECTURER
Andrea Paola Rojas Gil, Lecturer
OBJECTIVE OF THE COURSE
The aim of the course is the understanding of:
Function of biological macromolecules and their role in human metabolism
PREREQUISITES
No Prerequisites
COURSE CONTENTS
Chemical principles of the metabolism: anabolisms, catabolism
Carbohydrate Metabolism: glycolysis, gluconeogenesis, glucose metabolism regulation, glycogen metabolism, monosaccharides and heteroglycans. Inherited and acquired dysfunctions of the glucose uptake metabolism.
Lipid metabolism: Biosynthesis and catabolism of triglycerides, sphingolipids and fatty acids, cholesterol metabolism. Blood lipid transport. Dysfunctions of the lipid metabolism.
Metabolism of proteins and amino acids: Biosynthesis and catabolism. Inherited and acquired dysfunctions of the protein and amino acid metabolism.
Kreb's and Citric Acid Cycle: reactions and regulation of the cycle. Importance of the Kreb's cycle in metabolism.
Respiration chain and oxidative phosphorylation: reactions and regulation. Mithochondrial thermogenesis. Acquired dysfunctions of oxidative phosphorylation.
Metabolism of purines and pirimidines: Biosynthesis, recycling and degradation of nucleotides. Clinical importance of metabolic dysfunction in nucleotides.

Enzymes: Stucture, kinetics and regulation of enzymatic reactions, coenzymes. Important enzymes in metabolism. Clinical importance of enzyme action.
Regulation of Medial Metabolism*:* absorption, fasting, and fatigue.
Nutrition: nutritional elements, vitamins and microelements, digestion and absorption. Digestive disorders.
Regulatory molecules: Hormonal extracellular messengers, hormonal regulation of calcium, phosphate and electrolyte metabolism, neurotransmitters, growth factors and cytokines.
Principles of clinical biochemistry: Evaluation of laboratory results and qualitative analysis. Plasma proteins, immunoglobulins, clinical enzymology, electrolytes. Dyslipidemia, tumor markers and their significance.
Applications of biochemistry in diagnosis and therapy II: monoclonal antibodies, study of protein expression,

RECOMMENDED READING

- Basic principles of Biochemistry with pathobiochemistry principles Georg Loffler. BROKEN HILL PUBLISHERS LTD (in Greek).
- Basic principles of Biochemistry. Lehninger. BROKEN HILL PUBLISHERS LTD (in Greek).
- **TEACHING METHODS**

Lectures, Practical laboratories

ASSESSMENT METHODS

Progressive exam: 25% (optional)
Laboratory: 15%
Investigative work: 10% (optional)
Final exam: 50%

LANGUAGE OF INSTRUCTION

Greek (English, Spanish, Czech)

HEALTH INFORMATICS

COURSE CODE

C017

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Athina Lazakidou, Lecturer

OBJECTIVE OF THE COURSE

The use of Informatics in the field of Health Care provides the field with various benefits related to the better health care delivery service as well as the facilitation of the work for medical and nursing staff in a hospital. The course “Health Information Systems” concerns all those students who are interested in getting familiarized with

the applications of Information Systems in the field of Health in Greece as well as in other countries.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical course

Within the context of this subject, emphasis will be placed on topics such as:

- Basic Concepts & Information Terms
- Basic Concepts & Information of Medical Definitions
- Electronic Patient Records
- Hospital and Clinical Information Systems
- Laboratory Information Systems
- Telemedicine
- Medical Imaging
- Security in Medical Information
- Electronic Signature for Medical Documents
- Electronic Prescribing
- Smart Cards in Medicine
- Technological Trends in Health Sector
- Advanced Systems & New Services of Information Systems in Health Sector

Laboratory course

- MS Office (Word, PowerPoint)
- Electronic Communication Systems
- Social Networks
- Use of New Information Technologies and Services
- Information Searching in Medical Digital Libraries
- Design of Websites/Blogs
- Image Processing Techniques

RECOMMENDED READING

- Advanced Systems and Informatics Services in Health Care, Athina Lazakidou(in Greek).
- Health Informatics and Telemedicine Services, Gkortzis Eleftherios (in Greek).

TEACHING METHODS

Lectures, Laboratories

ASSESSMENT METHODS

- Project (40%)
- Final Exam (60%)

LANGUAGE OF INSTRUCTION

Greek

HUMAN PHYSIOLOGY I

COURSE CODE

C002

TYPE OF COURSE

Compulsory

LEVEL OF COURSE
Undergraduate
SEMESTER
2nd Semester
NAME OF LECTURER
Georgios I. Panoutsopoulos, Lecturer
OBJECTIVE OF THE COURSE
The scope of the subject is to provide students with the basic knowledge of physiological function of the human body. The subject teaches a basic understanding of physiological mechanisms with a deeper appreciation for the complexity and beauty of the human life, including the physical, chemical and molecular principles that control the function of the human organism.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
Theoretical course per week (13 weeks per semester)
Cell Membrane and transport of substances through the cell membrane.

- Cell membranes, passive and active transport, endocytosis and exocytosis, intercellular communication and receptors.

Nervous system-1.

- Structure of neurons, glial cells, membrane potentials, threshold, all-or-none principle, synaptic transmission, neurotransmitters.

Nervous system -2.

- Central and peripheral nervous systems, brain metabolism.

Skeletal muscle system.

- Structure, neuromuscular synapse, muscle contraction, motor unit, tetanus, muscle fatigue, energy requirements, types of skeletal muscles.

Control of Body Movement.

- Cerebral cortex, subcortical and basal nuclei, cerebellum, pyramidal and extrapyramidal tracts, muscle tone.

Smooth muscle.

- Structure, muscle contraction, types of smooth muscle.

Sensory physiology.

- Sensory receptors, stimulus, body senses (touch, movement, temperature and pain).

Vision, Hearing, Taste and Smell.
Endocrine Glands-1.

- Structure, synthesis, transport, metabolism and secretion of hormones, anterior and posterior pituitary, thyroid gland.

Endocrine Glands-2.

- Pancreas, adrenal glands and parathyroid glands.

Consciousness and behavior.

- Stages and disorders of consciousness, learning and memory.

Respiratory System-1.

- Structure, conducting and respiratory zones, anatomical dead space, alveoli, surfactant, mechanics of breathing, lung volumes and capacities, respiratory centers and regulation of breathing.

Respiratory System-2.

- Gas exchange between alveoli and tissues, function of blood on ventilation, oxygen and carbon dioxide transport, control of breathing, effect of exercise and high altitude on respiratory function.

Laboratory course

- Skeletal muscle reflexes.
- Muscle contraction by using calf muscle from frog.
- Spirometry.
- EEG.
- Smooth muscle contraction by using small intestine from rat.
- DVD projection on physiology topics and experimental exercises by using computers.

RECOMMENDED READING

- Human Physiology, Vander-Sherman-Luciano-Tsakopoulos, BROKEN HILL PUBLISHERS LTD (in Greek).
- Medical Physiology, Cellular & Molecular Approach, Boron –Boulpaep, BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials, Experiments

ASSESSMENT METHODS

Written exams, oral exams

LANGUAGE OF INSTRUCTION

Greek

HEALTH PSYCHOLOGY

COURSE CODE

C069

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is to expose the students to the science of health psychology, focusing on those areas with direct relevance to nursing practice.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- What is health (physical - mental)
- The field of health psychology
- Definition of health psychology
- Psychological factors in illness and disease
- The four premises of medical care
- Basic models of the health professional – patient relationship
- History taking and physical examination
- The importance of nonverbal communication
- The patient's perspective. Developing empathy
- Listening to patients, educating patients and helping patients to ask questions
- The concept and the meaning of stress

- Pain and theories of pain
- The serious illness from the patient point of view

RECOMMENDED READING

- Rana, D, Upton, D. Psychology for Nurses, Ed. BROKEN HILL PUBLISHERS LTD, 2010 (in Greek)
- DiMatteo, M.R, Martin, L.R Health Psychology Ed. Ellinika Grammata, Athens, 2008 (in Greek)
- Rice, P. Health Psychology, Ed. Ellin, Athens, 2005 (in Greek)

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

Presentation of a specific topic during the course (optionally)

LANGUAGE OF INSTRUCTION

Greek

ELECTIVE COURSES

NURSING THEORIES

COURSE CODE

E013

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of course is the critical presentation of modern nursing theories and the theoretical position of Greek Nursing.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Main significances and definitions of growth theory
- Description and estimate of theory
- Historical retrospection of theories
- Import in the Nursing science
- Conceptual models - the future of nursing models
- Nursing activity
- Evidence Based Nursing
- Modern Nursing–Florence Nightingale
- Definition of Nursing-Virginia Henderson

- Faye Ablelah
- Myra Levine
- Human to Human Relationship Model-Travelbee
- Adaptation Model-Roy
- Orem model of nursing, or Self Care Deficit Nursing Theory-OREM

Tutorial part

Tutorial exercises for the application of particular nursing theories and models aiming at the comprehension of their usefulness in the sectors of education, practice and Administration

Practice of students in the search and evaluation of data in international bases of data (MEDLINE, PubMed, Cochrane Library)

RECOMMENDED READING

- Nursing Theories, Eleni Apostolopoulou, Ed. Eleni Apostolopoulou(1999). Athens (in Greek).
- Nursing Theories, McEwen & WillsEM.(2004). BETA Medical Editions, Athens (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

TEACHING AND LEARNING IN NURSING

COURSE CODE

E064

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

Aim of the course is to provide knowledge relevant to teaching strategies and specialized educational interventions, when they are applied in nursing education, as a specialized pedagogical procedure that occurs in clinical, community and rehabilitation centers .

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Traditional and modern teaching and learning methods
  Learning theories (behavioural, cognitive, anthropocentric and adult learning theories)
- Incitement for learning
- Teaching methods in small groups
- Teaching and learning of psychokinetic dexterities
- Teaching and learning with work on written exercises
- Distance learning
- Teaching and learning inside clinical space
- Education of chronically suffering patients
- Education of disabled people
- Continuing Nursing education

RECOMMENDED READING

- Teaching and learning in nursing and other health sciences. Stella Cotzabassaki (2010). BETA Medical Editions, Athens (in Greek)

TEACHING METHODS

Lectures, Tutorial

ASSESSMENT METHODS

Written examination

LANGUAGE OF INSTRUCTION

Greek

HUMAN GENETICS

COURSE CODE

E004

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

2nd Semester

NAME OF LECTURER

Andrea Paola Rojas Gil, Lecturer

OBJECTIVE OF THE COURSE

This course is designed to give students the knowledge of the principles about the domain and the function of the human genome, the basic of genetic mechanisms in human inheritance. The course gives emphasis in the inherited characteristic of the human diseases, the significance of the molecular diagnosis, and possible gene therapeutical schedules.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Molecular basis of the genetics I: domain, organization and function of the genome, genes and chromosomes

- Molecular basis of the genetics II: Mechanism of mitosis and meiosis, gene mutations, polymorpisms, genetic recombination, DNA repair systems.
- Mitochondrial genetics: Mitochondrial genom, mitochondrial related diseases
- Base of genetics I Principles of mendelian genetics, fenotypes and genotypes, monogenetic characters.
- Base of genetics II: Poligenetic characters, population genetics
- Base of genetics III: Autosomal and X-linked heredity
- Chromosomes I: cytogenetic methods, gender identification
- Chromosomes II: chromosomal abnormalities
- Molecular genetics diagnosis I : generation threes, methodology for identification of chromosome abnormalities.
- Molecular genetic diagnosis II: molecular identification of gene mutations,
- Molecular genetic diagnosis II: techniques for prenatal diagnostic, genetic counselling
- Cancer genetics: cell cycle, growth factors, oncogenes, oncogene suppressor genes molecular diagnosis of cancer, gene therapy.
- Clinical cases of genetic diseases: Analysis of the causes, methodology of the diagnosis and treatment

Proposed Laboratories

- Gene mutations a) use of restriction enzymes for the identification of gene mutations, b) identification of gene mutations and interpretation of the results using gene banks
- Observation of the mitosis in plant and animal cells
- Microscopic study of the x-inactivated chromosome in epithelial cells of the mouth
- Observation of chromosomes and karyotypes
- Identification and characterization of chromosome abnormalities
- Generation threes and genetic counselling
- Papanicolaou Test: base of the methodology, performance of preparates from physiological epithelial cells, observation of pathological fixed preparates
- Analysis of clinical cases using mendelian genetics and genetic counselling

RECOMMENDED READING

- Medical genetics Thompson M.W *et al.* University Editorial Crete (in Greek).
- Principles of medical genetics Thomas D. Gelehrter & Francis S. Collins. BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Practical laboratories

ASSESSMENT METHODS

Progressive exam: 25% (optional)
Tutorial: 15%
Investigative work: 10% (optional)
Final exam: 50%

LANGUAGE OF INSTRUCTION

Greek (English, Spanish, Czech)

3rd SEMESTER

COMPULSORY COURSES

MICROBIOLOGY

COURSE CODE
C014
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
3rd Semester
NAME OF LECTURER
Ioannidis Anastasios, Lecturer
OBJECTIVE OF THE COURSE
The course provides the principles of general microbiology, bacteriology, parasitology and mycology with particular emphasis on problems relevant to human health and disease. The main purpose is to facilitate understanding the infectious diseases of the various body systems based on the current data and the internationally established methodologies and assessment schemes.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Introduction to Bacteriology. Taxonomy of bacteria. Morphology, properties and metabolism of bacteria.
- Culture of clinical specimen. Detection of infections.
- Gram(+) bacteria.
- Gram(-) bacteria.
- Infections of the Urogenital system.
- Infections of the Central Nervous system.
- Infections of the Gastrointestinal system.
- Zoonosis. Infections and invasive devices.
- Mycobacterial infections
- Infections and leucopenia.
- Fungal infections.
- Viral infections.
- Parasitology.

RECOMMENDED READING

- Microbiology: An Introduction, 9th Edition by Gerard J. Tortora, Berdell R. Funke and Christine L. Case (2007) Ed. BROKEN HILL PUBLISHERS LTD ISBN: 9789604892617.
- Medical Microbiology, Greenwood D., Slack R., Ed. BROKEN HILL PUBLISHERS LTD ISBN: 978-960-489-279-2.

TEACHING METHODS
Lectures, Tutorials, Laboratory Practice
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

COMMUNITY NURSING

COURSE CODE
C015
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
3rd Semester
NAME OF LECTURER
Styliani Tziaferi, Lecturer
OBJECTIVE OF THE COURSE (EXPECTED OUTCOMES AND COMPETENCES TO BE ACQUIRED)
The objective of this course is the promotion of health in the community. Through this course a student will acquire an understanding of the necessity in detection the health needs of a person, family, social groups and every factor that influence the health status of population. The role and actions of community nurse as a member of an interdisciplinary group is emphasized. The student should obtain a working knowledge of the nursing procedures in the Primary Health Care System. Students' practice takes place in: Community Health Services (they study incidence's distribution of diseases and they evaluate population health needs in the community), multi-dynamic Health Centers (participation in the services of Health center), School Nursing (tutorials following methodology of health education and vaccination of school population), Occupational health (information on nursing services in working area and lectures). Practice exercises based on demographic community problems and use of school's library. During practice there is rotating change of students' groups.
PREREQUISITES
No prerequisites
COURSE CONTENTS
Teaching
- Introduction in Community Nursing and Historical Perspective

- Community Nursing Elaboration, methods of evaluation of a person, a family, a community
- Theories on Community Nursing, Betty Neuman, OMAHA system
- Principles and practice criteria of Community Nursing on quality and safety during implication
- Primary Health Care, roles and activities of nurses
- Health centers, objectives of their operation
- Environment and health. Role of community nurse.
- Trans-cultural approximation of community health
- Health promotion- Health education. Methodology, Health Education models.
- School Nursing
- Occupational Health Nursing
- Law in Community Nursing Practice

Practice

In Primary Health Care facilities (community services, services of institutionalization, prevention and rehabilitation, schools, working areas)

RECOMMENDED READING

- Kalokairinou- Anagnostopoulou A., Sourtzi P. (2005) "COMMUNITY NURSING" BETA Medical Editions (in Greek).
- Stanhope M., Lancaster J. (2009) "Community Nursing" BROKEN HILL PUBLISHERS LTD (in Greek).
- Nies, McEwen (2005) "Community Nursing. Promoting Population's Health" Ed Lagos (In Greek).

TEACHING METHODS

Lectures, tutorials, clinical practice in small groups

ASSESSMENT METHODS

Written exams (70%) and written assignment to students based on clinical practice (30%)

LANGUAGE OF INSTRUCTION

Greek

HUMAN PHYSIOLOGY II

COURSE CODE

C008

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Georgios I. Panoutsopoulos, Lecturer

OBJECTIVE OF THE COURSE

The scope of the subject is to provide students with the basic knowledge of physiological function of the human body. The subject teaches a basic understanding of physiological

mechanisms with a deeper appreciation for the complexity and beauty of the human life, including the physical, chemical and molecular principles that control the function of the human organism.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical course per week

Composition of the Blood

- Plasma, erythrocytes, hematopoiesis, hemoglobin, hematocrit, ABO system, Rhesus factor, Leukocytes, platelets.

Heart and Circulation

- Anatomy and histology of the heart, electrical activity of the heart, electrocardiogram, cardiac cycle, cardiac output, coronary circulation, systemic and pulmonary circulation, pressure, flow and vascular resistance.

Vascular and lymphatic system.

- Arteries, arterial blood pressure, arterioles, capillaries, veins, lymph node, lymphatic vessels and capillaries.

The cardiovascular system in health and disease. Hemostasis.

- Regulation of arterial pressure, hemorrhage, hypotension, exercise, hypertension, congestive heart failure, coronary disease, myocardial infarction.
- Blood clotting, hemostasis, dissolution of clots.

Digestive System.

- Structure of gastrointestinal tract, functions of gastrointestinal organs, stomach, liver, gall bladder, pancreas, small and large intestine, digestion and absorption of carbohydrates, lipids and proteins.

Regulation of energy metabolism and thermoregulation. Regulation of growth.

- Energy expenditure, energy body storage, thermoregulation.
- Bone development, growth hormonal effects.

Immune System-1.

- Non-specific and specific immunity, inflammation, interferons, lymphoid organs.

Immune System-2.

- Functions of B- and T-lymphocytes, natural killer-, helper- and suppressor- T-lymphocytes, immunological tolerance, systematic manifestations on infections.

Male Reproductive Physiology.

- Anatomy, spermatogenesis, sperm transfer, male hormones.

Female Reproductive Physiology.

- Anatomy, uterine tubes, ovulation, menstrual cycle, estrogen and progesterone effects, fertilization, pregnancy, parturition, lactation.

Kidneys.

- Structure of kidneys and urinary system, glomerular filtration, reabsorption in proximal tubule, proximal tubule excretion, urination.

Sodium, Potassium and Water Balance.

- Total balance and renal regulation of sodium and water, regulation of potassium and calcium.

Regulation of Calcium and Hydrogen ions.

- Homeostasis of calcium, acidosis and alkalosis.

Laboratory course

- Measurement of hematocrit.
- ESR
- Examining the formed elements of blood microscopically. Differential white blood cell count.

- ABO and Rh blood typing.
- Electrical properties of cardiac muscle: automaticity and rhythmicity of frog heart muscle.
- Electrocardiogram.
- Measurement of blood pressure.
- Hemostasis (clotting time, bleeding time).
- Measurement of fat.
- DVD projection on physiology topics and experimental exercises by using computers.

RECOMMENDED READING

- Medical Physiology, Cellular & Molecular Approach, Boron –Boulpaep, BROKEN HILL PUBLISHERS LTD (in Greek).
- Human Physiology, I. K. Stavridis(I, II) BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials, Experiments

ASSESSMENT METHODS

Written exams, oral exams

LANGUAGE OF INSTRUCTION

Greek

FUNDAMENTALS OF NURSING II

COURSE CODE

C018

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Sofia Zyga, Assistant Professor

OBJECTIVE OF THE COURSE

The objective is for students to acquire the basic scientific knowledge necessary to deliver quality nursing care and to develop clinical thinking and fundamental techniques and skills required in daily clinical practice.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Taking and recording of clinical history and health assessment
- Drug administration – assessment of medication history – assessment of patient response to medication
- Administration of chemotherapeutic drugs
- Peri-operative nursing
- Voiding of bladder and intestine
- Balance of fluids and electrolytes
- Vascular access (placement of peripheral and central lines)
- Pain assessment

- Activity – rest and sleep
- Nursing care of immobilised patients
- Adjustment to stress
- Self-awareness
- Loss – bereavement – death

Clinical practice

The objective is to provide opportunities consolidating theoretical knowledge and developing basic techniques and skills required in clinical practice. Each nursing procedure is applied in selected Hospital clinics which are always under the supervision of a clinical instructor.

RECOMMENDED READING

- Clinical Nursing Skills and Nursing Process. Lynn P. (2011). BROKEN HILL PUBLISHERS LTD (in Greek).
- Basic and Advanced Nursing Processes, Mosby's (2011). BETA Medical Editions Athens (in Greek).
- Fundamentals of Nursing and Clinical Nursing Skills, Perry G.A.(2011). BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written examinations

LANGUAGE OF INSTRUCTION

Greek

ENGLISH (TERMINOLOGY) II

COURSE CODE

C013

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is to expand on vocabulary of nursing-medical terms. The students should be able to further analyze nursing and medical articles and translate Greek articles into English as well as making use of citation skills in order to do assignments.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

a) Theoretical course

In the theory lectures, the teaching is geared towards analyzing medical-nursing articles through critical thinking, summarizing the main points of an article. Broader

disciplinary material is incorporated in the course and emphasis is placed on academic writing, paraphrasing and summarizing. Mediation skills are also exploited, which constitute the original communicative purpose. More specifically, students analyze texts which deal with:

- AIDS
- Hepatitis
- Syphilis
- Cirrhosis
- Constipation
- Diarrhoea
- Intestinal Disorders
- Cholesterol
- Heart Diseases
- Anaemia
- Skin allergies
- Brain, Nerves and Muscles
- Mental Health

b) Tuition

In tuition, students study authentic articles and summarize them. Students are taught different techniques of making direct and indirect references and how to summarize main points from various articles. Then, in groups, students undertake a topic related to their field and through guidance, searching (in the library, on the Internet), and using the knowledge they have acquired so far, they hand in assignments of which they also make a presentation at the end. More specifically, they deal with articles on topics, such as:

- Plagiarism – References (Techniques)
- Summarizing articles (Techniques)
- Pain Assessment
- Technology in Healthcare
- Administration of medication
- Depression
- Case Management
- Exercise and Recovery
- Dementia
- Community Nursing
- Head Injuries
- Orthopaedics Nursing
- Emergencies

RECOMMENDED READING

- Medical English, P. Kontopodis 2006 (in Greek).
- English-Greek Dictionary of Biological and Medical Terms, Patargias-Sekeris 2006 (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

25% Assignment

75% Written exam

LANGUAGE OF INSTRUCTION

Greek / English

SOCIOLOGY OF HEALTH

COURSE CODE

C045

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

Aim of this course is to introduce students to basic concepts of sociology and to offer them the necessary knowledge that will enable them to understand the sociological aspects and interactions in the health area.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

1. Introduction to the Sociology of Health

- Medicine and biomedical model
- Medicine and sociology of health and illness

2. The social construction of medical knowledge

- Implementations in medical practice and health care

3. Lay health beliefs: Lifestyles and risk

- Lay beliefs about health
- Lifestyles and consuming cultural models
- Risk and lifestyles in the modern society

4. The experience of chronic illness and disability

- The sick role
- The meaning of illness
- Strategies of confrontation

5. The Sociology of the body

- Prospects of the body

6. The sociology of lay-professionals interaction

- The relationship between health professional and the ill person
- The medicalization

7. Social inequalities and health status

- Social class, unemployment and health
- Gender, race and health
- Geographical and global inequalities

8. Sociological analyses and criticism of contemporary developments in Health Policy.

RECOMMENDED READING

- Porter, S. Social Theory and Nursing Practice. Ed. BROKEN HILL PUBLISHERS LTD , Athens, 2010(in Greek).
- Nettleton S. Sociology of Health and Illness. Ed. Tipothito-Dardanos, Athens, 2002 (in Greek).
- Sarris, M. Sociology of Health and Quality of Life. Ed. Papazissis, Athens, 2001(in Greek).

TEACHING METHODS
Lectures, Tutorials
ASSESSMENT METHODS
Written exams
Presentation of a specific topic during the course (optionally)
LANGUAGE OF INSTRUCTION
Greek

ELECTIVE COURSES

PATHOLOGICAL ANATOMY

COURSE CODE
E011
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
3rd Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is the study of the morphological and functional deviations from normal which are caused in the cells, tissues or organs of the body under the influence of harmful factors. From the multiple causes and effects, only those regarding the explanation of fundamental distortions will be studied, while special emphasis will be placed on those phenomena that are more often mentioned and concern the nursing interventions.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
- Cellular death and degeneration
- Inflammatory alterations
- Radiation and chemical toxicity
- Immune response and immune mediated toxicity
- Immunodeficiency and transplantation
- Cancer mediated alterations

- Oncology and hematology

RECOMMENDED READING

- Pathology, Bocker Werner,Denk Helmut,Heitz Phillip U. BROKEN HILL PUBLISHERS LTD (in Greek)

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

CLINICAL DIETOLOGY

COURSE CODE

E055

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Andrea Paola Rojas Gil, Lecturer

Georgios I. Panoutsopoulos, Lecturer

OBJECTIVE OF THE COURSE

This course is designed to give students the knowledge of:

- the dietetic principles, energetic and nutrition requirements.
- the course deals with the chemistry of the main nutrient types – proteins, fats, carbohydrates, vitamins and minerals – and their importance in diet, and energy intake and output.
- understand the links between nutrition and health for people of all ages and a range of lifestyles.
- the course applies this knowledge to the diet of different groups such as children, adults, and the elderly, and makes links between diet and health issues such as exercise, heart disease, cancer etc.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theory

- Digestion: absorption, transport and secretion of nutrients
- Energetic requirements and involved influencing factors
- Carbohydrates, proteins, lipids
- Vitamins, water, and minerals
- Nutrition in pregnancy and breastfeeding
- Nutrition in childhood and adolescence
- Nutrition in adult life and in old age

- Basic principles of clinic dietology (identification of the nutritional risk and evaluation of the patients)
- Obesity in adults life
- Obesity in childhood
- Nutrition care of diabetes type I and type II
- Nutrition care in special disease conditions
- Nutrition support in the hospital

Clinical practice

- Standard Body Measurement in adults
- Standard Body Measurement in a childhood and adolescence
- Creation and evaluation of various dietary regimes
- Identification of the nutritional risk and evaluation of the patients
- Nutritional therapeutic application in pathological situations (analysis of the clinical cases (3 practice)

RECOMMENDED READING

- Clinical dietology (2 volumes). Zampelas A. BROKEN HILL PUBLISHERS LTD, 2007 (in Greek).
- Dietology in the life stages Zampelas A BROKEN HILL PUBLISHERS LTD, 2004 (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Progressive exam: 25% (optional)
Tutorial : 15%
Investigative work: 10% (optional)
Final exam: 50%

LANGUAGE OF INSTRUCTION

Greek (English, Spanish, Czech)

RESEARCH METHODOLOGY

COURSE CODE

E018

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is to provide the students all the information necessary to understand: (a) the fundamental principles and practices that rule the design, conduct and presentation of the results in scientific research as a form of a scientific

publication (b) the basic and advanced techniques required to search for scientific information and critically assess the results of scientific research.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to the concept and necessity of research.
- Research subjects, data and measurement scales, discrimination between variables.
- Types of samples, sampling procedures and sample size.
- Methodology stages of scientific research.
- Detailed description of research process, phases and stages of research.
- Research Institutes, principles and codes of ethics.
- Approaches - types of scientific research.
- Methods of scientific research (experimental projects, observation, retrospective research, review, cross-correlation research, case study, meta-analysis, etc.).
- Research techniques.
- Means and materials of scientific research.
- Data analysis and process.
- General principles of research presentation and rules of writing a scientific paper.
- Evaluation and debugging of scientific research.

Laboratory course

Computer-based, real-time, individual and group practice in searching, finding, and reviewing of scientific information requested.

RECOMMENDED READING

- Nursing Research Methology. Anastasios Merkouris, 2008. Ellin, Athens (in Greek).
- Research Methology**.** Application in health sciences. A. Sahini Cardasi, 2000. BETA MEDICAL EDITIONS Medical Editions, Athens (in Greek).

TEACHING METHODS

Lectures, Tutorial

ASSESSMENT METHODS

Written examination

LANGUAGE OF INSTRUCTION

Greek

APPLICATIONS OF THE MOLECULAR BIOLOGY IN HEALTH SCIENCES

COURSE CODE

E058

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

3rd Semester

NAME OF LECTURER

Andrea Paola Rojas Gil, Lecturer

OBJECTIVE OF THE COURSE

This course is an introduction to the molecular biology's methodology with emphasis in the applications of molecular biology in the study of different pathological situations and in the creations of target therapeutic schemes

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Restriction enzymes, vectors and plasmids, methodology of DNA cloning.
- DNA and cDNA libraries, molecular probes for nucleic acids
- Western and Southern immunoblotting and their applications
- Methodology of the DNA sequencing and of the polymerase chain reaction (PCR)
- Program of the human genome, his importance and applications
- Molecular diagnosis in endocrinology and hematology
- Molecular diagnosis in immunology and oncology
- Molecular diagnosis in neurology
- Molecular diagnosis in pediatric patients
- Prenatal diagnosis, assisted reproduction
- Cytogenetic methods.
- Bases of gene therapy
- Stems cells and their applications

Proposed Laboratories

- Principles of DNA cloning I
- Principles of DNA cloning II
- PCR and his application in prenatal diagnosis
- Identification of mutations in the CFTR gene
- Application of immunochemistry in oncology and neurology (identification of the protein expression of STAT3 in neoplasmatic tissues and identification of the protein expression of CB1 in mouse brain tissues)
- Measurement of cytokines in serum and in adipose tissue with ELISA

RECOMMENDED READING

- Recombinant DNA WATSON J., I. Basdra and Company, 2007 Alexandropolis (in Greek).
- Molecular medicine, R.J. TRENT, BROKEN HILL PUBLISHERS LTD, 2002 (in Greek).

TEACHING METHODS

Lectures, Practical laboratories

ASSESSMENT METHODS

Progressive exam: 25% (optional)
Laboratory: 15%
Investigative work: 10% (optional)
Final exam: 50%

LANGUAGE OF INSTRUCTION

Greek (English, Spanish, Czech)

4th SEMESTER

COMPULSORY COURSES

EPIDEMIOLOGY

COURSE CODE
C016
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is to present the basic principles of epidemiology, the design of an epidemiological study, the presentation of data and the drawing of conclusions.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Introduction – Causality – Sources of data – Descriptive Studies
- Mortality and morbidity indexes. The evaluation of causality hypothesis
- Person , place and time in the evaluation of data
- Perspective and retrospective studies
- Evaluation of preventive measures – Epidemiology and clinical medicine
- Evaluation of therapeutic measures –Screening tests
- Epidemiologic methods and services of health
- Epidemiology of infectious diseases - Epidemics
- Epidemiology and demographic genetics

RECOMMENDED READING

- Epidemiology D. Trichopoulos. Parisianos,2004 (in Greek)
- Epidemiology and public health. Friis R. BROKEN HILL PUBLISHERS LTD, 2007 (in Greek)
- Essentials of Epidemiology in Public Health. Aschengrau Ann et al. Jones and Bartlett 2003
- Basic Epidemiology. Bonita R et.al BROKEN HILL PUBLISHERS LTD, 2009 (in Greek)

TEACHING METHODS
Lectures, Tutorials
ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

DISEASE PREVENTION

COURSE CODE

C019

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

4th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is devoted to disease prevention and health promotion, focusing on preventive strategies and population-based studies

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction
- Promotion of health: Vaccinations,
- Hospital acquired infections
- Microbial resistance
- Prevention of chronic diseases
- Food borne and waterborne diseases
- Viral Hepatitis, HIV infection,
- Preventive measures for special groups

RECOMMENDED READING

- Epidemiology and public health. Friis R. BROKEN HILL PUBLISHERS LTD, 2007 (in Greek)
- Preventive medicine and public health Trichopoulos D et. Al. Zita, 2000 (in Greek).
- Preventive medicine and health promotion Kaklamani et al BROKEN HILL PUBLISHERS LTD, 2007(in Greek).
- Essentials of Epidemiology in Public Health. Aschengrau Ann et al. Jones and Bartlett , 2003 (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

FIRST AID

COURSE CODE
C060
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Maria Tsironi, Associate Professor
OBJECTIVE OF THE COURSE
The aim of the course is the acquisition of theoretical and practical knowledge, which will allow for accurate assessment and proper therapeutic and nursing intervention for dealing with patients' emergency situations, before the specialist's intervention
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Primary assessment and CPR
- Legal aspects of first aid, including negligence and consent
- Circulatory emergencies, such as bleeding, heart attack and stroke
- Respiratory emergencies, such as asthma and anaphylactic shock
- Internal injuries, such as broken bones, chest injuries, and internal bleeding
- Burns, seizures and other medical conditions

RECOMMENDED READING

- First Aid and practical approach, Baltopoulos G., Ed. BROKEN HILL PUBLISHERS LTD , 2010 (in Greek).
- NMS Emergency Medicine, Biddinger Paul D., Adler Jonathan N.,Plantz Scott H., Stearns Dana A.,Gossman William, Ed. BROKEN HILL PUBLISHERS LTD, 2009 (in Greek).

TEACHING METHODS
Lectures, Tutorials
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek, English

PHARMACOLOGY

COURSE CODE
C009
TYPE OF COURSE
Compulsory
LEVEL OF COURSE

Undergraduate

SEMESTER

4th Semester

NAME OF LECTURER

Georgios I. Panoutsopoulos, Lecturer

OBJECTIVE OF THE COURSE

The aim of the course is teaching the general principles of pharmacokinetics and pharmacodynamics, therapeutics, prescriptive medicine focusing on the nursing responsibility and intervention. What follows is the presentation of pharmaceutical substances into groups, analyzing their action, their therapeutic use, the undesirable effects and the interaction with other drugs.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to pharmacology
- Pharmacokinetics
- Administration of drugs, Absorption of drugs
- Distribution of drugs in the body, Drug metabolism
- Drug-delivery systems, Drug excretion, Pharmacodynamics
- Drug receptors, drug doses, Therapeutic indicator
- Dose-response curves, Safety and drug result
- Drugs of the nervous system (Autonomic and peripheral nervous systems)
- Drugs affecting the cardiac function and the cardiovascular system, Drugs affecting the respiratory system
- Drugs affecting the digestive system, Drugs affecting the blood (eg. Coagulation, fibrinolysis, haematopoiesis, functioning of blood cells)
- Drugs affecting the muscular system, drugs affecting the endocrine system
- Antiviral drugs, antibacterial drugs, antifungal drugs, antimalarial drugs, antiprotozoal drugs, anthelmintic drugs, Vitamins
- Poisons and antidotes, Anticancer drugs

RECOMMENDED READING

- Nursing Pharmacology, T. Simonsen, J. Aabakke, I. Kay, I. Coleman, P. Sinnott, R. Lysaa. BROKEN HILL PUBLISHERS LTD (in Greek).
- Pharmacology, Page, Curtis, Sutter, Walker, Hoffman. BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

HEALTH SERVICES MANAGEMENT

COURSE CODE

C029

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

4th Semester

NAME OF LECTURER

Panagiotis Prezerakos, Assistant Professor

OBJECTIVE OF THE COURSE (EXPECTED LEARNING OUTCOMES AND COMPETENCES TO BE ACQUIRED)

By this course is intended to give the basics in Health Services Management through the analysis of the Health System into its component parts and the understanding of the transition process in an organized system.

PREREQUISITES

No prerequisites

COURSE CONTENTS

Theoretical part

The Health Sector and the Organization of Health Services

- The Social Policy and Health Sector
- The definition of Health
- Health Services Management and the Economic Environment for Health Sector

Health Services Supply and the Production of Health Care

- Production of Health Care
- Inpatient and other types of institutional care
- Outpatient health care - Pharmaceutical Care - Public Health & Prevention
- Human Resources in Health Sector - Health Technology

The demand for health services

- Demand for health services - Health Expenditure
- Financing of Health Care System - Private Health Insurance

The transition of Health Sector into the Integrated Health System

- The concept of the Health System - Convergence of supply, demand and real needs
- Equity

Quality and Evaluation of Health Care and Health Technology Assessment

- Quality and Evaluation of Health Services
- Health Technology Assessment

RECOMMENDED READING

- Health Services and Systems Management, Lycurgus Liaropoulos, Medical Publications BETA, Athens, 2007

- Health Policies in Greece and European societies, Charalambos Economou, Dionikas, Athens, 2004

TEACHING METHODS

Lectures

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

PATHOPHYSIOLOGY

COURSE CODE
C057
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Georgios I. Panoutsopoulos, Lecturer
OBJECTIVE OF THE COURSE
The understanding of deviation from the normal function, that is, the mechanisms of origin and onset of various infections.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
Pathophysiology of the cardiovascular system-1.

- Physiology, cardiac cycle, heart sounds, electrocardiogram, heart failure, stenosis, valvular dysfunction, pericarditis.

Pathophysiology of the cardiovascular system-2.

- Hypertension, hypotension, coronary circulation, coronary disease, shock, dysrhythmias.

Pathophysiology of Blood-1.

- Normal hematopoiesis, hemoglobin, metabolism of erythrocyte, necessary substances for hematopoiesis.

Pathophysiology of Blood-2.

- Classification of anemias (aplastic, megaloblastic, iron-deficiency, hemolytic), hemoglobin abnormalities (thalassemia, sickle cell anemia), diseases of leukocytes, leukemias, platelets and platelet diseases, blood clotting and hemostatic disorders.

Pathophysiology of the digestive system-1.

- Esophagus (physiology, function), manifestations of esophagus diseases, gastroesophageal reflux disease.
- Stomach, small and large intestine (physiology, manifestations of alimentary tract), stomach and duodenum disorders (peptic ulcer disease, malabsorption syndrome).

Pathophysiology of the digestive system-2.

- Liver (physiology, tests for hepatic function), liver disorders (jaundice, cholestasis, liver failure, portal hypertension, ascites), hepatitis and cirrhosis of the liver.

Pathophysiology of the digestive system-3.

- Bile canaliculi (physiology, cholelithiasis, manifestations of cholelithiasis), pancreas (physiology, clinical manifestations of pancreatic disorders, pancreatitis).

Pathophysiology of the pulmonary system-1.

- Physiology, defence mechanisms of pulmonary system, lung volumes and capacities, disorders of respiratory function, dyspnea, respiratory failure.

Pathophysiology of the pulmonary system-2.

- Diseases of the respiratory system, chronic obstructive pulmonary disease, bronchial asthma, emphysema, chronic bronchitis, restrictive pulmonary disease, pulmonary edema, pulmonary embolism.
- **Pathophysiology of pain**
- **Pathophysiology of the nervous system**

Pathophysiology of endocrine glands-1.

- Structure, biosynthesis and transfer of hormones, receptors, hypothalamus and pituitary gland, growth hormone, giantism, acromegaly, dwarfism, other disorders of anterior pituitary, posterior pituitary (physiology, disorders of secretion of antidiuretic hormone), thyroid gland (physiology, synthesis and effect of thyroid hormones, hyperthyroidism, hypothyroidism).

Pathophysiology of endocrine glands-2.

- Adrenal glands (biosynthesis and hormone actions of the cortex, disorders of the cortex function, Cushing syndrome, Addison disease), pancreas (physiology, insulin, glucagon, diabetes mellitus)

Pathophysiology of renal system.

- Physiology, tests of renal function, clinical manifestations of nephropathy, acute renal failure, chronic renal failure, glomerulonephritis, renal tubular acidosis.

Pathophysiology of electrolytic disorders.

- Body fluids, disorders of water balance, electrolytic disorders of sodium, potassium, calcium and phosphate, acid-base balance and its disorders.

RECOMMENDED READING

- Pathophysiology , M. Nair, I. Peate, 2012, BROKEN HILL PUBLISHERS LTD (in Greek).
- Pathophysiology, I. Damjanov, 2009, Parisianos Publishers (in Greek).

TEACHING METHODS

Lectures, Tutorials,

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

ELECTIVE COURSES

HOME NURSING CARE

COURSE CODE

E066

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

4th Semester

NAME OF LECTURER

Styliani Tziaferi, Lecturer

OBJECTIVE OF THE COURSE (EXPECTED OUTCOMES AND COMPETENCES TO BE ACQUIRED)

Theory of nursing care development in community groups with health problems. Effective and exemplary encounter of complex problems in Community Nursing especially in Services of House Nursing, in Units of short Nursing and in Nursing of patients with chronic diseases and special needs (cardio-respiratory diseases, diabetes, cancer, AIDS, elderly health problems, problems of mental health).

PREREQUISITES

No prerequisites

COURSE CONTENTS

Teaching

- Theories of nursing care to community groups with health problems
- Special health needs of community population
- Recognition of health needs of a person, family of programming and provision of community nursing care complex services in Emergency units, Home care services and chronicle patients with special needs services.
- Roles and activities of nurses. Communication as Nursing intervention in Care of chronicle patients
- Home nursing
- Family Nursing
- Methodology of Health Education in special groups of home patients with problems of hearing, vision and restricted mobility
- Elderly with health problems in the Community – Home nursing
- Patients with cardiology and respiratory diseases
- Patients with diabetes Mellitus
- Patients with cancer
- Patients with AIDS
- Patients with problems of mental health

Practice

Identification of health needs in community groups during visiting Home Nursing services, units of emergency services and care services of chronicle patients

RECOMMENDED READING

- Kalokairinou- Anagnostopoulou A., Sourtzi P. (2005) “Community Nursing” BETA Medical Editions (In Greek).
- Kalokairinou- Anagnostopoulou A., Athanasopoulou Voudouri (2010) “Family Nursing BETA Medical Editions (In Greek).

TEACHING METHODS

Lectures, tutorials

ASSESSMENT METHODS

Written exams (50%) and oral presentation of students’ assignment based on tutorials (50%)

LANGUAGE OF INSTRUCTION
Greek

GERONTOLOGICAL NURSING (ELDERLY NURSING CARE)

COURSE CODE
E024
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The ageing of population and the increase in the number of the elderly, constitutes a challenge for the nursing science. The best way to deal with the various needs of this part of the population, demands a full knowledge of the biological changes and of the pathological symptoms which manifest themselves very frequently and which are the aim of this course.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
The contents of the course can be divided in two parts: the theoretical part and the clinical practice of the students.

- The theoretical part includes the demographic and statistic facts concerning senior citizens, the biological changes that occur naturally with ageing and specific problems that elderly people face more often as well as the way of dealing with them.
- During the clinical practice, students are trained to communicate and to have personal contact with the elderly in order to evaluate their problems, consult them, train them and apply techniques and knowledge which result in taking care of them as best as possible.

RECOMMENDED READING

- Gerontological Nursing, Plati (in Greek).
- Basic Geriatrics and Nursing G. H. WOLD (in Greek).

TEACHING METHODS
Lectures, Clinical Practice
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

HOSPITAL INFORMATION SYSTEMS

COURSE CODE
E017
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Athina Lazakidou, Lecturer
OBJECTIVE OF THE COURSE
The course "Hospital Information Systems" concerns those students who are interested in getting familiarized with the ICTs applications and benefits into the Health Care Sector. Special emphasis will be given to the clarification of particular concepts that are used to describe information systems in the field of health. The students who will attend this course will be able to use the related terms and make effective and essential contacts with the cooperated systems.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
Within the context of this subject, emphasis will be placed on topics such as:

- Introduction to the Information Systems (Basic Concepts & Definitions)
- Information Systems for the Hospitals (HIS - Hospital Information Systems)
- Information Systems for Departments/Wards (CIS - Clinical Information Systems)
- Information Systems for Medical Laboratories (LIS – Laboratory Information Systems)
- Information Systems for Radiology Departments (RIS – Radiology Information Systems)
- Description of Software Development Phases (Software Lifecycle)
- Design and Analysis of Information Systems
- Classification of Medical Terms & Medical Information Coding Systems (ICD-9, ICD-10, SNOMED, ICPM, ICNP)
- Medical Data Bases
- Digital Imaging and Communications in Medicine (DICOM)
- Picture Archiving and Communication Systems (PACS)
- Security of Medical Images Transfer
- Healthcare Information Systems applied in Greece and other Countries

RECOMMENDED READING

- Hospital Information Systems and Electronic Health Services, Athina Lazakidou (in Greek).
- Healthcare Information Systems, Ioannis Apostolakis (in Greek).

TEACHING METHODS
Lectures, Laboratories
ASSESSMENT METHODS

- Project (40%)
- Final Exam (60%)

LANGUAGE OF INSTRUCTION
Greek

PRIMARY HEALTH CARE

COURSE CODE
E067
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
Primary care is the foundation of every solid health care system. The aim of the course is to delineate the differences of the primary care patient, to present the principles of preventive measures and to familiarize the students with the current primary care facilities of our health care system
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Periodic health examination and preventive care
- Prenatal and postnatal care
- Care of the terminally ill
- Infectious diseases
- Cardiovascular diseases
- Respiratory diseases
- Dermatological diseases
- Gastrointestinal diseases
- Myoskeletal disorders
- Endocrine disorders
- Psychiatric, psychosocial and behavioural issues
- The geriatric patient
- Diagnostic approach of the primary care patient

RECOMMENDED READING

- Primary care J. Murtagh, BROKEN HILL PUBLISHERS LTD (in Greek).
- Family medicine P. Sloane et. Al. BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS
Lectures, Clinical Practice
ASSESSMENT METHODS
Written exams

LANGUAGE OF INSTRUCTION
Greek

5th SEMESTER

COMPULSORY COURSES

SURGICAL NURSING I

COURSE CODE
C028
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
Purpose of this course is to introduce the Surgical Nursing science to the under graduate students, in order to offer them the basic scientific knowledge (theoretical and clinical) for the diagnosis of the patient's health problems and their treatment options, achieving perioperatively a high level of quality nursing care, by developing fundamental nursing techniques and skills, necessary for the everyday practice.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Introducing surgical nursing- surgical nursing history
- Preoperative patient care
- Postoperatively receipt of the patient
- Postoperative patient care, pain , nausea and vomit management
- Surgical wounds, dressings and drainages
- Care of patient with gastroenterological disorders
- Care of patient with musculoskeletal disorders
- Care of patient with neurosurgical disorders
- Care of patient with urological disorders
- Care of patient with head-neck disorders
- Care of patient with gynecological and maternal disorders

RECOMMENDED READING
Medical Surgical Nursing. Critical thinking on patient care (Volume I,II,III,IV) Lemone & Burke. Lagos 2007 Athens (in Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written Exams
LANGUAGE OF INSTRUCTION
Greek

INTERNAL MEDICINE I

COURSE CODE
C020
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
M. Tsironi, Associate Professor
OBJECTIVE OF THE COURSE
The aim of the course is to enable the students to learn and apply methods of clinical assessment to the patient and to acquire knowledge on prevention, diagnosis, and treatment of adult diseases
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Clinical Examination
- Cardiology
- Gastroenterology
- Hematology
- Nephrology
- Pulmonology
- Clinical cardiac electrophysiology
- Critical care medicine

RECOMMENDED READING

- Bates' Guide to physical examination and history taking, Bickley LynnS.,Szilagyi PeterG., BROKEN HILL PUBLISHERS LTD 2006
- Netter Internal Medicine Runge M., Greganti M.A., Ed. BROKEN HILL PUBLISHERS LTD 1st Edition (in Greek).
- Clinical semiology and diagnostics, Arapakis Γ. I., BROKEN HILL PUBLISHERS LTD (in Greek)
- Internal Medicine (University of Athens). BROKEN HILL PUBLISHERS LTD, in Greek, 2η έκδοση (in Greek).

TEACHING METHODS
Lectures, Clinical Practice
ASSESSMENT METHODS

Written exams, evaluation of clinical practice skills

LANGUAGE OF INSTRUCTION

Greek, English

SURGERY I

COURSE CODE

C022

TYPE OF COURSE

Compulsory

SEMESTER

5th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aims of the course are: the approach towards the patient undergoing surgery and the theoretical grounding on matters of clinical examination, symptomatology and examination planning for emergencies and chronic cases.

The aim, in detail, consists of:

- Learning and applying the data of surgical pathology.
- Explanation of the effects of various diseases on the human organism as well as their treatment.
- Development of special skills through selective surgical issues, which will be analyzed in detail, in the special tuitions by the professors.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Basic Clinical Procedures
- History taking and Physical Examination
- Surgical strategy
- Disorders of the Esophagus
- Disorders of the stomach and Duodenum
- Disorders of the liver
- Disorders of the Biliary Tract
- Disorders of the Pancreas
- Disorders of the Spleen
- Disorders of the Colon and Rectum
- Trauma – Burns
- Surgical Infections-Prophylaxis

RECOMMENDED READING

PRINCIPLES AND PRACTICE OF SURGERY, O. James Garden, Andrew W. Bradbury, John Forsythe, Churchill Livingstone, 4th edition 2003(in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION
Greek

MEDICAL NURSING I

COURSE CODE
C026
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is the provision of theoretical and clinical knowledge regarding the development and implementation, through the Nursing Process, of an individualized nursing care plan of adult patients with acute and chronic health problems in the internal care ward. Moreover, there will be an attempt to understand:
- The importance of caring as the basis of the nursing practice.
- The nursing process as a scientific method of solving patients' problems and the nurses' way of thinking.

PREREQUISITES
No Prerequisites
COURSE CONTENTS
Development of nursing care plan through the Nursing process to patients with:

- Pain
- Water and electrolytic disorders
- Infection
- Cancer
- Immune system function disorders
- HIV infection – AIDS
- Skin disorders
- Endocrinal disorders
- Diabetes Mellitus
- Gastrointestinal system disorders
- Liver and Pancreas disorders
- Nutrition disorders
- Bowel function disorders

RECOMMENDED READING

- Medical-Surgical Nursing. Critical thinking in patient care LeMone P., Bruke KM. (2006) Vol.I (In Greek).

- Ignatavicius DD; Workman ML. (2008) Medical-surgical nursing : critical thinking for collaborative care (5th ed). Vol.I & II.Philadelphia, Elsevier Saunders. (In Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams and written implementation of nursing process
LANGUAGE OF INSTRUCTION
Greek

ELECTIVE COURSES

EXERCISE PHYSIOLOGY

COURSE CODE
E068
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Georgios I. Panoutsopoulos, Lecturer
OBJECTIVE OF THE COURSE
The scope of this subject is the study of various systems of the human body when it performs or responds to physical activity. In addition, it examines the effects of environment on the human body both at rest and during exercise. Finally, it examines the use of exercise when a patient suffers from a chronic disease.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Neuromuscular system and exercise.
- Respiratory function and exercise.
- Cardiovascular function and exercise.
- Hormonal function and exercise.
- Nutrients and food energy. Water, vitamins and trace elements.
- Energy transfer systems at rest and during exercise.
- Measuring human energy-generating capacities. Energy expenditure at rest and during physical activity.
- Diet and exercise. Body weight, body composition and physical exercise.
- Aerobic and anaerobic training. Training muscles to become stronger.
- Doping in sports.
- Children and teenagers in exercise and sports. Aging and exercise. Differences between men and women in exercise and sport.
- Cardiovascular diseases and exercise.
- Obesity, diabetes mellitus and exercise.

RECOMMENDED READING

- Physiology of exercise and sport. J.H. Wilmore και D.L. Costill, BROKEN HILL PUBLISHERS LTD (in Greek).
- Physiology of exercise. W.D. McArdle, F.I. Katch και V.L. Katch, BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

HEALTH ECONOMICS

COURSE CODE

E065

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

5th Semester

NAME OF LECTURER

Panagiotis Prezerakos, Assistant Professor

OBJECTIVE OF THE COURSE (EXPECTED LEARNING OUTCOMES AND COMPETENCES TO BE ACQUIRED)

The course aims at making students understand the economic relationship between Economics and Health sector. This course is intended to provide the basic principles of Economic Science and the factors that are being developed in the health sector, which are the causes for the establishment of Health Economics.

PREREQUISITES

No prerequisites

COURSE CONTENTS

Theoretical part

- Definition and evolution of Economics
- Meaning and purpose of Health Economics
- Good “Health”
- Demand for Health Services
- Demand for Health Services - Induced demand
- Theory of Production
- Theory of Production Costs for Health Care
- Theory of Distribution of Health Care
- Productivity and Efficiency - Methods for the efficiency measuring
- Economic evaluation of interventions in the Health Sector
- The Hospital and its economic objectives
- Labour market and programming of the health sector personnel
- The labour market and the programming of the nursing staff

Tutorial part

During the tutorial part, case studies and problems solving take place according to the theoretical part of the unit.

RECOMMENDED READING

- Health Economics, John N. Yfantopoulos, C Dardanos, K Dardanos OC, Athens, 2006
- The Economics of Health Review, Thomas Rice, Curator: Manos Matsaganis, Editions Criticism, Athens, 2006

TEACHING METHODS

Lectures and tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

CLINICAL BIOCHEMISTRY

COURSE CODE
E053
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Andrea Paola Rojas Gil, Lecturer
OBJECTIVE OF THE COURSE

The aim of this course is an introductory approach on the laboratory methodology of clinical biochemistry which concerns biochemical and endocrinological methodology used for the investigation and diagnosis of certain disorders.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Clinical biochemistry laboratory practical issues and use.
- Diagnosis and therapy of disorders such as liquid balance, electrolytes balance
- Acid-based balance evaluation and clinical applications.
- Diagnosis and therapy of disorders caused by imbalance of inorganic elements such as sodium, potassium, calcium, phosphorus and magnesium.
- Renal function and concerned disorders.
- Study of immunoglobulin and liver function's test
- Metabolic disorders of t glucose metabolism and the development of diabetes.
- Bone diseases and osteoporosis, endocrinological assessment and control.
- Thyroid and Suprarenal disorders.
- Evaluation of nutritional status in health and disease together with assessment of lipid metabolism disorders.
- Clinical evaluation of Carcinogenesis
- DNA diagnostic techniques
- Prenatal testing and diagnostic measures.

Proposed Laboratories

- Introduction to the methodology of clinical biochemistry
- Receive blood Samples, blood components separation and monocyte isolation
- Automatic analyzer function (in cooperation with the hospital)
- Oral Glucose Tolerance Test (OGTT) and insulin measurements with ELISA
- Chemical analysis of urine
- Lipid metabolism disorders: Analysis of polymorphisms in the ApoE gene
- Cancer markers: mutation analysis of the BrcA gene

RECOMMENDED READING

- Clinical Biochemistry , ALLAN GAW Editorial Parisianou Athens 1999 (in Greek).
- Clinical Biochemistry, WILLIAM MARSHALL, Editorial Litsas, Athens 2000(in Greek).

TEACHING METHODS

Lectures, Practical laboratories

ASSESSMENT METHODS

Progressive exam: 25% (optional)
Laboratory: 15%
Investigative work: 10% (optional)
Final exam: 50%

LANGUAGE OF INSTRUCTION

Greek (English, Spanish, Czech)

WORKPLACE HEALTH

COURSE CODE
E020
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Styliani Tziaferi, Lecturer
OBJECTIVE OF THE COURSE (EXPECTED OUTCOMES AND COMPETENCES TO BE ACQUIRED)
The aims of the course are: the acquisition of knowledge of contemporary theory on health and safety (H&S) in workplace based on law, interaction of health and work and the study of hazards that affect it; the development of practical abilities through practice in holistic preventive worker's examination and visits in workplaces.
PREREQUISITES
No prerequisites
COURSE CONTENTS
Teaching

- Definition and purposes of Health in the workplace. Historical perspective, Work and health relationship
- Law on health in the workplace. Team of health in the workplace
- Occupational health nursing, definition, activities. First aid in the workplace.
- Worker's health- Files and surveillance
- Health education, health promotion in the workplace
- Identification and observation of working hazards. Data files in the workplace.
- Accession and rehabilitation of workers with special needs, Work accident, law, statistics
- Accident hazards, principles of safe work and prevention of accidents
- Occupational disease, law, statistics
- Systematic occupational diseases, occupational cancer
- Toxicology, Exposure limits
- Ergonomics, Work Psychology
- Epidemiology, application on the health in the workplace, Multifactor analysis of work position

Laboratory/Practice

- Study of virtual cases using multiple methods to examining in depth issues on H&S
- Occupational files and practice on spirometry, audiometry, optometrisis, etc, in terms of preventive examination of workers in school's laboratory and in visiting services of health in the workplace

- Multifactor analysis of work position, using questionnaires and examples from services of H&S

RECOMMENDED READING

- Velonakis Em., Sourtzi P. (2009) “HEALTH AND WORK” BETA Medical Editions (In Greek)
- Linou A. (2009)“Occupational Medicine” BETA Medical Editions (In Greek)

TEACHING METHODS

Lectures, tutorials, practice in small groups

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

PERIOPERATIVE NURSING

COURSE CODE

E069

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

5th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

Purpose of the course is to provide to the students, the principles and practice of perioperative nursing, in order to obtain the knowledge in qualitative nursing care, through their skills and practices which are essential in everyday practice.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to perioperative nursing
- Perioperative equipment
- Preoperative patient assessment
- Surgical infection control
- Perioperative nursing patient care
- Aseptic technique
- Perioperative safety
- Perioperative patient positioning
- Surgical instruments and sutures
- Countable equipment control
- Postoperative nursing patient care

RECOMMENDED READING

- Perioperative nursing care ,Woodhead, Wicker. Lagos, Athens, (in Greek).
- Surgical instruments, Bradley M BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written Exams
LANGUAGE OF INSTRUCTION
Greek

RADIOLOGY

COURSE CODE
E042
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester

NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is the students' familiarization with the modern illustrative methods, basic radiotherapy, principles of Nuclear Medicine and Radiotherapy
PREREQUISITES
No Prerequisites
COURSE CONTENTS
- X-ray radiography, ultrasound, computed tomography (CT)
- Nuclear medicine, positron emission tomography (PET) and magnetic resonance imaging (MRI)
- Interventional radiology: performance of (usually minimally invasive) medical procedures with the guidance of imaging technologies.

RECOMMENDED READING
- Radiology and Imaging, Sutton David, Ed. BROKEN HILL PUBLISHERS LTD (in Greek).
- A Concise Textbook of Clinical Imaging, Sutton David, Young Jeremy W. R., Ed. BROKEN HILL PUBLISHERS LTD , 1st Edition(in Greek).

TEACHING METHODS
Lectures, Tutorials
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

ENTREPRENEURSHIP AND MANAGEMENT FOR SMALL AND MEDIUM ENTERPRISES (SME)

This course examines the basic theoretical foundations of entrepreneurship and in particular, how an SME is created and operates effectively in the international environment. The participants will learn how to develop, implement and evaluate Business Plans, marketing plans and financial plans for an SME. This course will also focus on the values of entrepreneurial spirit and inspire the participants for entrepreneurial work. Case studies and best practices regarding entrepreneurship will be presented.

6th SEMESTER

COMPULSORY COURSES

SURGICAL NURSING II

COURSE CODE
C032
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
6th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
Purpose of this course is to offer to the undergraduate students, the advanced scientific knowledge (theoretical and clinical) for the evaluation, nursing diagnosis, planning and implementing nursing care achieving perioperatively a high level of quality nursing care, by developing fundamental nursing techniques and skills, necessary for the everyday practice.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Postoperative Complications Management
- Surgical Wounds Management
- Drainages and Management
- Clinical Nutrition
- Care of Patient with Vascular Disorders
- Care of Patient with Burns
- Surgical Nursing and Emergency Departments
- Care of Patient after open heart Surgery

RECOMMENDED READING

- Perioperative Nursing Care, Woodhead & Wicker, Lagos 2007 Athens (in Greek).
- Medical Surgical Nursing. Critical Thinking for Cooperative Care. (Volume I,II,III,IV) Ignatavicius, Workman, BETA Medical Editions, Athens, (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written Exams

LANGUAGE OF INSTRUCTION

Greek

INTERNAL MEDICINE II

COURSE CODE

C025

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

YEAR OF STUDY

SEMESTER

6th Semester

NAME OF LECTURER

M. Tsironi, Associate Professor

OBJECTIVE OF THE COURSE

The aim of the course is to enable the students to learn and apply methods of clinical assessment to the patient and to acquire knowledge on prevention, diagnosis, and treatment of adult diseases

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Clinical Examination
- Endocrinology
- Infectious diseases
- Rheumatology.
- Neurology

RECOMMENDED READING

- A Manual of Laboratory and Diagnostic Tests, Fishbach F., Ed. BROKEN HILL PUBLISHERS LTD, 2005 (in Greek).
- Acute medical emergencies: A nursing guide, Harrison Richard, Daly Lynda, Ed. BROKEN HILL PUBLISHERS LTD, 2004 (in Greek).

TEACHING METHODS

Lectures, Clinical Practice

ASSESSMENT METHODS

Written exams, evaluation of clinical practice skills

LANGUAGE OF INSTRUCTION
Greek, English

SURGERY II

COURSE CODE
C027
TYPE OF COURSE
Compulsory
SEMESTER
6th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE

- To help the student understand the fundamentals of etiology, diagnosis, and therapy of the diseases commonly requiring surgical care.
- To sharpen student's skills at researching and evaluating the literature on important surgical problems.
- To gain familiarity with the basics of preoperative decision-making, operative conduct, and post-operative care through participation in day-to-day activities of a surgical service.

PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Basic principles of the surgical treatment of cancer
- Breast lumps and breast carcinoma
- The acute abdomen
- Surgery of liver and bile duct - Pancreas
- Injuries – Surgical approach
- Vascular injuries
- Fractures – basic principles
- Surgery of endocrine glands
- The adrenal gland. The thyroid gland
- Plastic surgery and skin
- Cardiothoracic surgery – basic principles
- Neurosurgery – basic principles
- Organ transplants

RECOMMENDED READING
PRINCIPLES AND PRACTICE OF SURGERY, O. James Garden, Andrew W. Bradbury, John Forsythe, Churchill Livingstone, 4th edition, 2003 (in Greek).
TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams

LANGUAGE OF INSTRUCTION
Greek

MEDICAL NURSING II

COURSE CODE
C031
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
6th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is the provision of theoretical and clinical knowledge regarding the development and implementation, through the Nursing Process, of an individualized nursing care plan of adult patients with acute and chronic health problems in the internal care ward. Moreover, there will be an attempt to understand:

- The importance of caring as the basis of the nursing practice
- The nursing process as a scientific method of solving patients' problems and the nurses' way of thinking.

PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Development of nursing care plan through the Nursing process to patients with:
- Urinary system disorders
- Chronic renal failure
- Cardiovascular system disorders
- Coronary artery disease
- Hematological disorders
- Respiratory disorders
- Oxygenation disorders
- Musculoskeletal system disorders
- Neurological system disorders
- Stroke
- Vision and Hearing disorders
- Male and female reproductive system disorders
- Grief and death experience

RECOMMENDED READING

- Medical-Surgical Nursing. Critical thinking in patient care LeMone P., Bruke KM. (2006) Vol.I (In Greek).

- Ignatavicius DD; Workman ML. (2008) Medical-surgical nursing : critical thinking for collaborative care (5th ed). Vol. III & IV.Philadelphia, Elsevier Saunders. (In Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams and written implementation of nursing process
LANGUAGE OF INSTRUCTION
Greek

ELECTIVE COURSES

TRANSCULTURAL NURSING

COURSE CODE
E028
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
6th Semester
NAME OF LECTURER
Styliani Tziaferi, Lecturer
OBJECTIVE OF THE COURSE (EXPECTED OUTCOMES AND COMPETENCES TO BE ACQUIRED)
The aim of this course is for students to acquire thorough scientific knowledge on Transcultural Nursing, nursing and abilities that will contribute to the comprehension and the acquisition of sufficiency of different health-care systems, where patients that are hospitalized come from different cultures.
PREREQUISITES
No prerequisites
COURSE CONTENTS
Teaching

- Introduction in Transcultural Nursing
- Definitions
- Theories of Transcultural nursing
- Theory of Leininger's Transcultural nursing (1995)
- Theory of Ramsden's safety (1995)
- Theory of Telabere's cultural sensitivity (1995)
- Theory of Cammpinha Bacote's cultural ability (1994)
- Transcultural approach of community health
- Roles and activities of nurses in health services of migrants and refugees
- Politics in European Union and influences on health care systems of traditional and western type, on laws and on national regulations, and on ordinary life of a European citizen

- Special services of Primary Health Care of immigrants and refugees in Greece
- Laws on Transcultural Nursing
- Methodology PBL in special cultural issues of health care in all age groups

RECOMMENDED READING

Kalokairinou (2009) "Transcultural nursing " Ed. BROKEN HILL PUBLISHERS LTD P.Ch. (In Greek)

TEACHING METHODS

Lectures, tutorials

ASSESSMENT METHODS

Written exams (60%) and written assignments to students (40%)

LANGUAGE OF INSTRUCTION

Greek

ONCOLOGY NURSING – PALLIATIVE CARE

COURSE CODE

E070

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

6th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aims are: a) the development of students' ability to recognize, assess and implement effective interventions through an individualized nursing care plan to manage multidimensional problems created by cancer and other life threatening diseases b) treatment approaches towards patients' and families' lives c) their familiarization with chronic diseases and palliative care provided to the patient, with special emphasis on pain management whether it is acute or chronic. Also, the aim is the adoption of attitudes towards the disease and its treatment and the skill of effective responses to the demands of their role during the whole course of the chronic disease. Special emphasis is placed on the development of the cooperation skill with the interdisciplinary team towards each patient-family for the assessment and coverage of organic psychosocial and spiritual needs in the various services of healthcare provision.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- The problem of Cancer. Patients', families', publics and health care professionals' attitudes, believes and myths about cancer and its treatment. Multidisciplinary approach.
- Nursing roles in primary and secondary prevention of malignancy neoplasias.

- Phase of diagnosis. Disease staging and treatment planning. Patient and family information, preparation and support during the announcement of the diagnosis of cancer.
- Holistic nursing care of patients receiving anticancer treatment (surgery, radiotherapy, chemotherapy, hormonal therapy, immunotherapy and narrow bone transplantation), as monotherapy or in combinations.
- Rehabilitation of patients with malignant neoplasias. Long-term effects of antineoplasmatic treatment. Needs of support of survivors and family.
- Nursing roles in approaching cancer patients participating in clinical trials.
- Philosophy, organization and palliative care services.
- Communication with patient, family, health care team members, voluntaries, community settings. Problems and solutions. Patient – family support through out palliative treatment and terminal care.
- Principles of assessment and management of the most significant physical and psychosocial problems of cancer patients (Pain, Nausea – Vomiting, Fatigue, Dyspnoea, Infection, Anorexia, Cachexia, Hypercalcemia, Edemas, Sexual and Reproductive dysfunction).
- Principles of assessment and management of psychosocial and spiritual patients and family needs.
- Participating in difficult clinical decisions making. Ethical issues in palliative care practice, education and survey.
- Caring of patients in the last days of their life. Patient and family grief support. Care support for patients who are in the terminal phase of their life.
- Improvement of quality of oncology care. Guidelines and standards. Alternative services of care. Challenges and Perspectives.

RECOMMENDED READING

- Corner J; Christopher B. (2006) Cancer nursing: care in context (1st ed). Osney Mead, Oxford, Malden, MA. Blackwell Science. (In Greek)
- Mystakidou K. (2005) Holistic Care of Patients with Chronic and End of Life Diseases. Athens. (In Greek)
- Kinghorn S, Gamlin R. (2001) Palliative Care: Bringing Comfort and Hope. Bailliere Tindall. (In Greek)

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

ANAESTHESIA NURSING

COURSE CODE

E019

TYPE OF COURSE

Elective

LEVEL OF COURSE
Undergraduate
SEMESTER
6th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
Purpose of this course is to offer to the undergraduate students, the basic scientific knowledge in anaesthesia nursing, in order to be in position to practice, to be an equal member of the anaesthesiology scientific team and to be involved in all of the teams actions, including PACU, palliative care, and especially pain management.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- History and Fundamentals of Anaesthesia Nursing
- Anaesthesia machines. Anaesthesiology equipment and new technologies in anaesthesia nursing
- Preoperative monitoring, evaluation of preoperative laboratory tests, nursing interview.
- Peripheral central vein and arterial lines in the OR.
- Basic principles on ventilation. Ventilation mask, ambu, LMA, ETT, MEMA
- Full anesthesia monitoring
- Preoperative sedation. Intravenous anaesthesia drugs. Perioperative and Postoperative analgesia.
- Local anaesthetic agents and peripheral neural blockers. Regional anaesthesia.
- CPR in the OR. PACU

RECOMMENDED READING

- Clinical Anaesthesiology (Volume 1,2) Morgan. Parisianou, 2000, Athens (in Greek).
- Anaesthesiology. Fasoulakis A. BROKEN HILL PUBLISHERS LTD,2005 (in Greek)

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written Exams
LANGUAGE OF INSTRUCTION
Greek

HAEMATOLOGY

COURSE CODE
E030
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate

SEMESTER
6th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The course focuses on the study of blood, the blood-forming organs, and blood diseases. Haematology includes the study of etiology, diagnosis, treatment, prognosis, and prevention of blood diseases, whereas transfusion medicine deals with the principles and problems of blood and blood product transfusion
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Bleeding disorders such as haemophilia and idiopathic thrombocytopenic purpura
- Haematological malignacies
- Haemoglobinopathies
- The science of blood transfusion and the work of a blood bank
- Bone marrow and stem cell transplantation

RECOMMENDED READING

- Color atlas of clinical haematology, Howard M., Hamilton P., Ed. BROKEN HILL PUBLISHERS LTD 2008 (in Greek).
- Lecture Notes: Αιματολογία, N.C. HUGHES-JONES, S.N. WICKRAMASINGHE, C. HATTON, Parisianos 2008 (in Greek).

TEACHING METHODS
Lectures, Tutorials,
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek, English

IMMUNOLOGY

COURSE CODE
E061
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
4th Semester
NAME OF LECTURER
Ioannidis Anastasios, Lecturer
OBJECTIVE OF THE COURSE
The purpose of teaching the course is to familiarize the students with basic knowledge of Immunology, as well as clinical and laboratory implementation.
PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Components of the Immune System
- Natural and acquired immune mechanisms
- The evolution of immune mechanisms
- Cells involved in immunity
- Natural immunity
- Acquired immunity
- Immunity against: bacteria, viruses, fungi, protozoa and worms
- Immunity against tumors
- Autoimmunity and autoimmune disease
- Immunosuppression
- Immunodeficiency
- Immunostimulation and vaccination

RECOMMENDED READING

- Kuby immunology, Thomas J. Kindt, Richard A. Goldsby, Barbara Anne Osborne, Janis Kuby.
- Immunology, David K. Male, Jonathan Brostoff, Ivan Maurice Roitt.

TEACHING METHODS

Lectures, Laboratory Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

NEW PRODUCT AND SERVICE DEVELOPMENT – INNOVATION

This course introduces the students to the importance of New Product/Service Development (NPD/NSD) for businesses, the types of new products/services available and the way new product/service portfolios are managed, the NPD/NSD strategies firms follow, the NPD/NSD models they use, as well as to the challenges of managing the NPD/NSD process and the reasons for success and failure of new products/services.

7th SEMESTER

COMPULSORY COURSES

CRITICAL CARE MEDICINE

COURSE CODE

C046

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is to present the most important clinical problems in the intensive care unit. Definition of the basic principles of resuscitation independently of the underlying disease that led to the admission to the ICU but also presentation of the various differential diagnostic patterns, the treatment modalities and the prevention of complications in the ICU environment.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Philosophy and main principles of intensive (critical) care.
- Ethical / legal issues. Psychological problems.
- Balance of liquids – electrolytes.
- Acid-Base equilibria / Blood gas test.
- Feeding [Enteric/Parenteric].
- Endocrinological diseases / Diabetes mellitus.
- Cardiovascular diseases / Arrhythmias.
- Cardiopulmonary arrest / CPR
- Pulmonary diseases / Respiratory failure.
- Infectious diseases / Sepsis [decay].
- Neurological diseases / Brain death.
- Poisoning / Toxicology.
- Renal diseases / Kidney failure.
- Hemmorraghe / Transfusions.
- Mechanically assisted breathing / Ventilators
- Monitoring / Patient electronic follow-up.
- Pharmaceutical support / Basic drugs in ICU

RECOMMENDED READING

- Emergency nursing – I.C.U., Marianne Saunorus Baird, Janet Hicks Keen,Pamela L. Swearingen, BETA Medical Editions, 2010 (in Greek).
- Contemporary intensive care, Diagnosis and treatment, Bongard F., Sue Darryl Y.(2005).BROKEN HILL PUBLISHERS LTD (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written Exams

LANGUAGE OF INSTRUCTION

Greek

CRITICAL CARE NURSING

COURSE CODE
C047
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
7th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The Aim of the course is to present the most important clinical problems in the intensive care unit. Definition of the basic principles of resuscitation independently of the underlying disease that led to the admission to the ICU but also presentation of the various differential diagnostic patterns, the treatment modalities and the prevention of complications in the ICU environment.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- General Concepts in Caring for the critically ill
- Managing the Critical Care Environment
- Trauma
- Respiratory Disorders
- Cardiac and Vascular Disorders
- Renal Failure
- Neurological Disorders
- Endocrinological Disorders
- Gastrointestinal Disorders
- Hematologic- Immunologic Disorders
- Poisoning
- Pharmaceutical support / Basic drugs in ICU
- Ethical / legal issues. Psychological problems

RECOMMENDED READING

- Emergency nursing- I.C.U., Marianne Saunorus Baird, Janet Hicks Keen, Pamela L. Swearingen, BETA Medical Editions, 2010 (in Greek).
- Contemporary intensive care, Diagnosis and treatment, Bongard F., Sue Darryl Y., BROKEN HILL PUBLISHERS LTD, 2005 (in Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written Exams
LANGUAGE OF INSTRUCTION

Greek

PSYCHIATRY

COURSE CODE
C036
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
7th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
This course presents, through an introduction to mental health and disease, the introduction to psychopathology and classifying system, the theoretical and clinical knowledge necessary to deal with mentally ill patients
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- psychiatric examination
- classifying systems and the psychiatric symptomatology
- psychopathology
- therapeutic modalities
- psychiatric symptoms

RECOMMENDED READING

- New Oxford Textbook of Psychiatry, (I, II & III), Gelder Michael G.,Lopez Ibor Juan Jose, Andreasen Nancy C., Ed. BROKEN HILL PUBLISHERS LTD (in Greek).
- Preventive Psychiatry & Mental Health,, Kontaxakis , M.I. Chavaki- Kontaxaki, Christidoulou. BETA Medical Editions 2005 (in Greek).

TEACHING METHODS
Lectures, Clinical Practice
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek, English

MENTAL HEALTH NURSING

COURSE CODE
C042
TYPE OF COURSE
Compulsory

LEVEL OF COURSE
Undergraduate
SEMESTER
7th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The nursing of mental health aims to make students more aware of patients with mental problems, to enable them to communicate with the patients, to be familiar with them and to have a holistic approach towards mental health with bio-psychological, cultural and spiritual dimensions.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
The main topics covered during the course are: prevention, caring, treatment and rehabilitation. Great emphasis is given on the communication and on the new trends of the psychiatric reform, showing special attention to mental health institutes.
RECOMMENDED READING

- Mental health nursing, Ragia. (in Greek).
- Mental health nursing care. Coler Marga Simon, Vincent Karen Goyette (in Greek).

TEACHING METHODS
Lectures, Clinical Practice
ASSESSMENT METHODS
Written Exams
LANGUAGE OF INSTRUCTION
Greek

ORTHOPAEDICS

COURSE CODE
C038
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
7th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is to present the basic of Anatomy, physiology, pathophysiology, as well as the mechanism of injury of the most frequent injuries and pathological conditions in the field of Orthopaedics.

At the end of the course students will be aware of the main clinical and diagnostic tests for assessment and diagnosis on these conditions and the most important ways of treatment and rehabilitation.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical part

- Introduction to Orthopaedics
- Basics of Traumatology
- Overuse Syndromes
- Upper limp Injuries
- Lower Limp Injuries
- Spinal Cord Injuries
- Lower back pain in Athletes
- Cardiovascular adaptation to exercise
- Osteoarthritis
- Injury diagnosis and treatment
- Exercise induced Asthma
- Exercise induced Haematuria

Laboratory Part

The practical part includes the presentation of the main types of assessment and treatment of various orthopaedic pathological conditions and injuries.

RECOMMENDED READING

- OXFORD HANDBOOK OF ORTHOPAEDICS. Ed. BROKEN HILL PUBLISHERS LTD, 2007 (in Greek)
- APLEY'S ORTHOPAEDICS AND TRAUMATOLOGY. Ed. BROKEN HILL PUBLISHERS LTD (in Greek)

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

OBSTETRICS GYNECOLOGY

COURSE CODE

C058

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The course is divided in two parts. The first is to provide students with the necessary knowledge about the care of the woman during pregnancy, child delivery and puerperium. The second part deals with the clinical pathology of female reproductive organs.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Maternal-fetal medicine.
- Reproductive endocrinology and infertility
- Gynaecological oncology
- Urogynaecology and pelvic reconstructive surgery
- Advanced laparoscopic surgery
- Family planning
- Paediatric and Adolescent Gynaecology
- Menopausal and geriatric gynaecology

RECOMMENDED READING

- Current gynaecology and obstetrics, Kreatsas G., Ed. BROKEN HILL PUBLISHERS LTD (in Greek).
- Clinical Obstetrics and Gynaecology. J. DRIFE - B. MAGOWAN, Parisianos (in Greek).

TEACHING METHODS

Lectures, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

PEDIATRICS

COURSE CODE

C030

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The purpose of the course is to provide a basic knowledge of pediatric theory and practice with diagnostic and therapeutic approach, necessary for practicing scientific nursing care. Emphasis is given to the special needs of newborn infants, children and adolescents with reference to physical, emotional, mental health and performance.

PREREQUISITES
No Prerequisites
COURSE CONTENTS
Teaching part

- Pediatric history and physical examination / Nutrition, Diet
- The newborn (care, diseases)
- Infectious Diseases / Active and passive immunization
- Respiratory System
- Digestive system
- Circulatory system
- Urogenital system
- Metabolic Diseases / Blood Diseases
- Neoplasms / rheumatic diseases of childhood
- Neuromuscular diseases and orthopedic problems
- Allergy / Pediatric Dermatology
- Pediatric Surgical problems

Clinical part
The main purpose of clinical practice is to familiarize the student with the child, identify the key characteristics of normal, disease and care, either outpatient or in the hospital ward, and awareness regarding the analysis of data conferred upon it by history, physical examination and routine laboratory tests.
RECOMMENDED READING

- Illustrated Textbook of Pediatrics. Tom Lissauer, Graham Clayden (in Greek).
- Clinical Pediatrics and Child Health. David Candy, Graham Davies, Euan Ross
- Essential of Pediatrics. Behrman Kliegman (in Greek).
- Ambulatory Pediatrics. Green, Haggerty, Weitzman (in Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

PEDIATRIC NURSING

COURSE CODE

C034

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE (EXPECTED LEARNING OUTCOMES AND COMPETENCES TO BE ACQUIRED)

The aim of the course is the accession of scientific knowledge and clinical dexterities for giving completed individualized care to the sick child

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- The child in the hospital. The role of the pediatric nurse. Consequences of the hospital treatment into child's emotional development
- Nursing care of children with infections of the respiratory system (Laryngitis, Bronchiolitis, Epiglottitis)
- Nursing care of children with asthma
- Diabetes in childhood – Nursing procedures
- Nursing care of children with acute – chronic renal failure
- Nursing care of children with cancer
- Nursing care of children with meningitis - AIDS
- Nursing care of children with craniocerebral injuries
- Nursing care of children with burns
- Orthopedic disorders in childhood. Nursing procedures
- Nursing care of children with cheiloschisis – hare lip– cleft lip-trachea/esophagus fistula – postoperative care
- Nursing care of children with psychokinetic disorders
- Pre- and post operative nursing care of children

RECOMMENDED READING

- Pediatric Nursing Principles in Children's Care, Vasiliki Matziou, Lagos (ed), Athens, 2011 (in Greek)
- Pediatric Nursing-Schedule of Nursing Care, Kathleen Morgan Speer, Lagos (ed), Athens, 2001 (in Greek)
- Clinical Skills Manual for Pediatric Nursing Caring for Children, Ruth C. McGillis Blinder, Jane W. Ball, Lagos (ed), Athens, 2008 (in Greek)
- Pediatric Nursing Care Plans, Karla L.Luxner, Ed. BROKEN HILL PUBLISHERS LTD, 2011 (in Greek)

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

ELECTIVE COURSES

INTERDISCIPLINARY APPROACH TO HEALTH CARE

COURSE CODE
E029
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
7th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The aim of the course is double: first to investigate methodological issues, such as observation, recording and commenting in respect to matters that are raised within the framework of interdisciplinary cooperation in health services and secondly, to highlight the framework in which health and education officers/professionals cooperate. Consequently, the emphasis is going to be given in group communication and cooperation processes as well as in the identification of methods and intervention that will support health professional and trainers.
PREREQUISITES
No Prerequisites
COURSE CONTENTS
The course, having as a point of reference the medical-pedagogical intercession in the prevention and rehabilitation of delinquency, will attempt to provide new meanings of the work experiences of health and education professionals, in order to develop and enhance interdisciplinary practical interventions. The subjects that are going to be elaborated are: Principles of team-work, Health as the ability to adjust, The disease/illness as a transmitter of new messages, The relationship between medical and nursing staff with patients and the relationship between patients and hospitals as organizations, Negotiation techniques-crisis management and support of health professionals, Interdisciplinary cooperation for the management of patients' behavioral problems, Interdisciplinary management: the contribution of intervention, Juvenile delinquency: health management and education on intervention, Indicative examples-Directions/Guidelines for health and education officers/professionals, Different/Alternative interdisciplinary organizations of health education and promotion, The significance of the nursing role.
Practice-in the form of experiential exercises-will entail students' personal experiences from their practice in other courses which will be followed by a

thorough investigation at a Educational activities will be related to cooperation and active listening, management of change, decision making and problem solving etc.

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written Exams

LANGUAGE OF INSTRUCTION

Greek

TRAVEL HEALTH

COURSE CODE

E056

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The purpose of this course is to provide knowledge about both the prevention of diseases affecting travelers and their treatment, if needed. Also, familiarize students with the process of managing the health of travelers, which requires proper training, knowledge of risks, individual assessment of risk and active communication process to achieve maximum compliance to precautions or long-term treatment.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Teaching part

- Social mobility and spread of endemic diseases
- Epidemiology of diseases associated with travelers
- Information and advice for travel depending on the time and place. Environmental risks and precautions
- Risks during the trip (air travel, cruises, tourist-class syndrome, thrombosis, pulmonary embolism)
- Specific groups of travelers (elderly, children, pregnant women, patients with chronic diseases)
- Vaccinations: Vaccinations routine. Adult, pregnant woman and child mandatory and recommended vaccinations for travel.
- Drugs for travelers
- Precautions when consuming food and beverages
- Infectious diseases from biting insects (leishmaniasis, malaria, riketsioseis, Dengue fever, Japanese encephalitis)
- Travel and psychology

- Climate change: Neo-pop diseases
- The Health of Immigrants and Refugees
- Specific tasks (sports missions, international missions, multinational organizations and companies)
- International law for travelers.

Tutorial part

- Familiarity with the international pages of travel guides, such as WHO, CDC, TRAVAX, eCDC, ISTM, FIT for Travel and discussion of selected incidents.

RECOMMENDED READING

- International travel and health WHO, 2010 (in Greek).
- Health and Safety guide for travellers. Nelly Vorropoulou, Efi Simou, Propompos, 2004 (in Greek).
- Tropical diseases, Michael Zion, University Studio Press, 2010 (in Greek).

TEACHING METHODS

Lectures, Tutorials.

ASSESSMENT METHODS

Students' oral presentation or written works (30%) and written exams (70%)

LANGUAGE OF INSTRUCTION

Greek

NURSING OF CARDIOVASCULAR DISEASES

COURSE CODE

E057

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

6th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is the acquisition of theoretical and clinical knowledge for the provision of individual nursing care to adult patients with acute or chronic heart diseases, having as a goal the rehabilitation of health and promotion of well being.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Circulatory - Cardiovascular System (Anatomy - Physiology).
- Electrocardiogram [ECG] (Method - Pathophysiology).
- Clinical examination [review, hearing] / Laboratory Control.
- Diagnostic methods [exercise tolerance test, Holter devise, cardiac ultrasound].
- Coronary heart disease [ischemia, angina, myocardial infarction, Thrombolysis].

- Structural heart disorders [Valvular heart disease, Cardiomyopathies].
- Cardiac Arrhythmias / Electrical cardioversion.
- Heart failure / Nursing care of chronic heart disease.
- Cardiorespiratory arrest - CPR / cardiogenic shock.
- Interventional Cardiology [Coronary Angiography, Percutaneous transluminal coronary, angioplasty, Intraaortic balloon pump, Pacing (temporary - permanent)].
- Cardiac surgery [Heart transplantation, aneurysms, coronary artery bypass (CABG)].
- Inflammatory heart disorders [endocarditis, pericarditis, myocarditis].
- Cardiopulmonary diseases [Pulmonary embolism, acute pulmonary edema].
- Heart disease Medication / Circulatory system drugs.

RECOMMENDED READING

- Cardiovascular diseases and nursing care. Hero Brokalaki. Lagos 2011 (in Greek)
- Manual of cardiac nursing**.** Dimitra Akirou. Parisianos 2005 Athens (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice.

ASSESSMENT METHODS

Written Exams

LANGUAGE OF INSTRUCTION

Greek

COMPUTER APPLICATIONS IN FINANCIAL MANAGEMENT OF HEALTHCARE UNITS

COURSE CODE

E048

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Athina Lazakidou, Lecturer

OBJECTIVE OF THE COURSE

The objective of this course is to make students familiar with the main principles, the analysis and evaluation techniques of best organization and administration of Health Services through ICTs.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Within the context of this subject, emphasis will be placed on topics such as:

- Computer-Assisted Financial Management of Hospitals and Health Care Services
- Management Information Systems in Health Care

- Computer-Assisted Budget Prediction of Hospitals
- Hospital Information Systems for Materials Management
- Organization and Administration of Health Systems and Services
- CRM and E-CRM in Health Care
- Enterprise Resource Planning (ERP) Systems and Services in Health Care
- Health Care Supply Chain Management Services
- Health Sector Management Projects

RECOMMENDED READING

- Hospital Management and Administration, Aspasia Goula (in Greek).
- Financial Management of Health Units, Nikolaos Polyzos (in Greek).

TEACHING METHODS

Lectures, Laboratories

ASSESSMENT METHODS

- Project (40%)
- Final Exam (60%)

LANGUAGE OF INSTRUCTION

Greek

SPORTS MEDICINE

COURSE CODE

E071

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

7th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is to present the basic of anatomy, physiology, pathophysiology, as well as the mechanism of injury of the most frequent injuries and pathological conditions in the field of Sports Medicine.

At the end of the course students will be aware of the main clinical and diagnostic tests for assessment and diagnosis of these conditions and the main types of treatment and rehabilitation.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

Theoretical part

- Introduction in Sports medicine.
- Woman and sports, Osteoporosis in Athletes, morphological differences between males and females.
- Preparticipation control in Athletes.
- Lower back pain in Athletes

- Gastrointestinal system and sports – Eating disorders in Athletes
- Cardiovascular system and sports.
- Pulmonary system and sports
- Doping in Sports
- Overuse syndromes in Sports
- Sport in Athletes with physical disabilities
- Lower limp injuries in Sports
- Upper limp injuries in Sports
- Spinal injuries in Sports

Laboratory Part

The practical part includes the presentation of the main types of assessment and treatment of sport medicine pathological conditions and injuries.

RECOMMENDED READING

SCUDERI, G,, McCANN, P, BRUNO,P, BALTOPOULOS, P,. "SPORTS MEDICINE ", Vol I and II. Ed. BROKEN HILL PUBLISHERS LTD, 2002 (in Greek)

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek, English

ENTREPRENEURSHIP AND MANAGEMENT FOR SMALL AND MEDIUM ENTERPRISES (SME)

This course examines the basic theoretical foundations of entrepreneurship and in particular, how an SME is created and operates effectively in the international environment. The participants will learn how to develop, implement and evaluate Business Plans, marketing plans and financial plans for an SME. This course will also focus on the values of entrepreneurial spirit and inspire the participants for entrepreneurial work. Case studies and best practices regarding entrepreneurship will be presented.

8th SEMESTER

COMPULSORY COURSES

NURSING SERVISES MANAGEMENT – NURSING CARE MODULES

COURSE CODE

C053

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

8th Semester

NAME OF LECTURER

Panagiotis Prezerakos, Assistant Professor

OBJECTIVE OF THE COURSE (EXPECTED LEARNING OUTCOMES AND COMPETENCES TO BE ACQUIRED)

The course aims to provide a systematic set of knowledge to students which include the concepts, principles and theories applicable to all functions of the Nursing Services management. It is focused to the staffing of nursing services and management of their human resources through the study of traditional and modern modules of organization of nursing care.

PREREQUISITES

No prerequisites

COURSE CONTENTS

Theoretical part

- Decision making- Management - Leadership
- Planning - Fiscal Planning
- Functions in Organizing
- Organizing Nursing Care
- Nursing Care Modules (Total patient care Nursing – Functional Method Team and Modular Nursing)

- Nursing Care Modules (Primary Nursing – Case Management)
- Human Resources Management (recruitment, selection, placement and indoctrination)

- Staffing Needs
- Team Building
- Functions in Directing (motivation and communication)
- Functions in Directing (conflict management)
- Quality control
- Performance appraisal

Tutorial part

During the tutorial part take place:

- Case studies and problem solving according to the theoretical part of the unit, and
- Presentation of teamwork and discussion (critical analysis) about them.

Clinical practice

- The practice is conducted in the nursing units of the General Hospital of Sparta, where groups of students are going to attend the operation of each unit recording (namelessly) data on staffing in nursing resources, the available equipment and the case mix resulting to the drafting of relevant teamwork, where:
- Compare the applicable staffing of nursing units comparably resulting from the application of methods of staffing (including GRASP), and
- Recommend the most appropriate nursing care module based on available nursing personnel and the complexity/severity of cases.

RECOMMENDED READING

- Management & Leadership: Theory and Application to the Nursing Services, Bessie L. Marquis, Carol J. Huston, Scientific Editors: Dafni Kaitelides & Panayotis Prezerakos, Medical Publications Dimitrios Lagos, Athens, 2011
- Introduction to Nursing Management and Leadership, Russell C. Swansburg, Richard J. Swansburg, Scientific Editor: Eleni Apostolopoulos, Medical Publications Dimitrios Lagos, Athens, 1999
- Nursing Services Administration, Anastasios B. Merkouris, "ELLIN" - C. Parikos and CO, Athens, 2008
- Nursing Services Administration, Theoretical and Organizational Context, Vasiliki Lanaras, Vasiliki Lanaras, Athens, 2007

TEACHING METHODS

Lectures, tutorials and clinical practice

ASSESSMENT METHODS

Written exams (80%)

Team writing assignment (20%)

LANGUAGE OF INSTRUCTION

Greek

CLINICAL MEDICAL NURSING

COURSE CODE
C040
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
8th Semester
NAME OF LECTURER
Tsironi Maria, Associate Professor
Zyga Sofia, Assistant Professor
OBJECTIVE OF THE COURSE

The general aim of the course is the consolidation of the theoretical knowledge acquired by the students during the previous semesters and its applicability in everyday clinical practice in selected hospital clinics.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Identification and adoption of the nursing standards and roles.
- Implementation of individualized nursing care plan.
- Assessment of the needs and problems of patients and family, nursing care planning, implementation and evaluation.
- Development of decision-making skills in handling acute and chronic suffering patients within the framework of an interscientific health care approach.
- Communication with the patient and his supportive environment.
- Communication and collaboration with other health care professionals.
- Taking individual initiatives and responsibilities.
- Familiarity with basic principles of ethics and conduct.
- Speculation, critical thinking and research concerns

RECOMMENDED READING

- Nursing in clinical practice. A. Berman, S. Snyder, C. Jackson. Lagos 2010 (Volume I,II) Athens (in Greek).

TEACHING METHODS

Clinical Practice

ASSESSMENT METHODS

The final grade will consist of: 50% by essay (the student must organise, implement and present written individualised patient care programmes) and 50% by assessment of performance of nursing clinical procedures.

LANGUAGE OF INSTRUCTION

Greek, English

CLINICAL SURGICAL NURSING

COURSE CODE

C041

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

8th Semester

NAME OF LECTURER

Tsironi Maria, Associate Professor

Zyga Sofia , Assistant Professor

OBJECTIVE OF THE COURSE

The general aim of the course is the consolidation of the theoretical knowledge acquired by the students during the previous semesters and its applicability in everyday clinical practice in selected hospital clinics.

PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Identification and adoption of the nursing standards and roles.
- Implementation of individualized nursing care plan.
- Assessment of the needs and problems of patients and family, nursing care planning, implementation and evaluation.
- Development of decision-making skills in handling acute and chronic suffering patients within the framework of an interscientific health care approach.
- Communication with the patient and his supportive environment.
- Communication and collaboration with other health care professionals.
- Taking individual initiatives and responsibilities.
- Familiarity with basic principles of ethics and conduct.
- Speculation, critical thinking and research concerns

RECOMMENDED READING

- Nursing in clinical practice. A. Berman, S. Snyder, C. Jackson. Lagos 2010 (Volume I,II) Athens, (in Greek).

TEACHING METHODS
Clinical Practice
ASSESSMENT METHODS
The final grade will consist of: 50% by essay (the student must organise, implement and present written individualised patient care programmes) and 50% by assessment of performance of nursing clinical procedures.
LANGUAGE OF INSTRUCTION
Greek, English

NOSOCOMIAL INFECTIONS

COURSE CODE
C059
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
8th Semester
NAME OF LECTURER
Ioannidis Anastasios, Lecturer
OBJECTIVE OF THE COURSE
Hospital infection control contributes to a significant part in disease control and prevention. There is a need to update students on hospital surveillance, antimicrobial treatment, disinfection and sterilization procedures. The aim of this course is to provide knowledge and skills necessary for infection control to function effectively in hospital setting.
PREREQUISITES
No Prerequisites

COURSE CONTENTS

- Nosocomial Infection (epidemiology, transmission and predisposition to infection).
- Hospital Infection Control. Antimicrobial agents and nosocomial multiresistant microorganisms
- Hospital Hygiene
- Protection of Healthcare Workers
- Antiseptics and disinfectants
- Hospital-acquired pneumonia
- Nosocomial urinary tract infection
- Nosocomial surgical infection
- Gastroenteritis
- Infection Surveillance and Control Programs
- Incidence and prevalence of the occurrence of nosocomial infections
- Hand Hygiene, Management of infectious waste
- Central services linens and laundry

RECOMMENDED READING

- NOSOCOMIAL INFECTIONS, AYLIFFE G., Ed. BROKEN HILL PUBLISHERS LTD
- NOSOCOMIAL INFECTIONS, BENNETT J., Ed. BROKEN HILL PUBLISHERS LTD

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

ETHICS AND CONDUCT IN NURSING

COURSE CODE

C048

TYPE OF COURSE

Compulsory

LEVEL OF COURSE

Undergraduate

SEMESTER

8th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of this course is the acquisition of knowledge in relation with the code of ethics and conduct, the concepts of ethics and values and the standards of the nursing profession practice. Specific goals are: (a) The acquisition of the necessary skills in order to get ethically accepted decisions and solve problems arising in everyday clinical practice. (b) The discussion about the necessity of the legal foundation of the nursing responsibility and the recent legislative interventions in the area of the nursing science as well as the nursing profession. (c) The approach

and analysis of specific issues of ethics in clinical and community settings.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Conceptual approach of ethics and deontology. Historical development and theories of moral philosophy. Historical development of deontology in Nursing.
- Values: configuration and conflict of values. Evaluative systems.
- Process of decision-making morally acceptable. Structure of arguments and analysis.
- The significances of ethics in the Nursing practice (advocacy, responsibility, collaboration, attitude of care).
- Models of Nurses moral behaviour. Codes of ethics. Nurses moral responsibilities.
- Nurses and Healthcare provision. Responsibility limits, individual and collective good, respect in values and convictions, human rights protection.
- Nurses and Nursing practice: Protection of sensitive personal data, patient's informed consent.
- Nurses and Nursing profession: Models of nursing practice and education, research ethics, resources distribution and inequalities in Health services provision.
- Individual and collective responsibility: Nurses and collaborators. Interdisciplinary health team.
- Nursing deontology code. Critical approach.
- The general obligations of Nurses against community and authorities, patient and colleagues.
- The special obligations of Nurses: in the frame of research, pediatric Nursing, mental health Nursing and community Nursing.
- Topical subjects of ethics and deontology: euthanasia, transplantations, stem cells, cloning.

RECOMMENDED READING

- Ethics in Nursing Practice, Sara Fry & Megan-Jane Johnstone, Ed. BROKEN HILL PUBLISHERS LTD, 2005 (in Greek).
- The obligations of Nurses, Philomila Obesi, BETA Medical Editions, Athens, 2007(in Greek).
- Law in Healthcare Health services, Health Professionals, Patients. Maria Mitrosili, Papazisi, Athens, 2009 (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written examination

LANGUAGE OF INSTRUCTION

Greek

THERAPEUTICS-CLINICAL NURSING ASSESSMENT

COURSE CODE
C061
TYPE OF COURSE
Compulsory
LEVEL OF COURSE
Undergraduate
SEMESTER
8th Semester
NAME OF LECTURER
Tsironi Maria, Associate Professor
Zyga Sofia, Assistant Professor
OBJECTIVE OF THE COURSE
The aim of the course is the familiarization with the already acquired theoretical knowledge and skills so that students can assess and document the subjective and objective data concerning diagnosis and planning of a comprehensive nursing care of a patient.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Clinical history structure -Patient clinical file structure
- Collection of personal data -Interview with patient and family
- Clinical data collection methods - Clinical nursing assessment
- Skin nursing assessment
- Evaluation of patient's mental condition
- Assessment of nutrition status and hydration
- Nursing assessment of cardiac function
- Clinical data obtained during the nursing assessment of respiratory function
- Assessment of data related to the integrity and function of peripheral vessels
- Assessment of patient's mobility
- Assessment of patient's excretory function
- Specific characteristics to be taken into consideration during the assessment of special patient groups (elderly, people with disabilities, patients with chronic diseases)

RECOMMENDED READING

- Nursing in clinical Practice. Lagos, 2010, Athens (in Greek).
- Medical- Surgical Nursing (Volume I,II,III,IV) Ignatavicius & Workman. BETA Medical Editions, 2008, Athens (in Greek).
- Nurse's pocket Guide. Diagnoses, Prioritized Interventions and Rationales. Doenges Merilynn E., Moorhouse Mary Frances, Murr Alice C. Ed. BROKEN HILL PUBLISHERS LTD, 2009, Athens (in Greek).

TEACHING METHODS
Lectures, Tutorials
Demonstration of nursing assessment techniques per method, using supervisory means.
Presentation of clinical cases and group discussion.

ASSESSMENT METHODS
Written examination
LANGUAGE OF INSTRUCTION
Greek, English

ELECTIVE COURSES

RENAL NURSING

COURSE CODE
E049
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
8th Semester
NAME OF LECTURER
Sofia Zyga, Assistant Professor
OBJECTIVE OF THE COURSE
The aim of the course is to enable students to acquire the basic scientific knowledge necessary to deliver quality nursing care to patients with renal diseases and to develop the fundamental techniques and skills required in daily clinical practice.
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Kidney anatomy and physiology.
- Laboratory approach of kidney diseases.
- Clinical approach of kidney diseases.
- Nursing care of patients with acute renal failure.
- Nursing care of patients with chronic renal failure.
- Nursing care of patients undergoing hemodialysis.
- Nursing care of patients undergoing peritoneal dialysis.
- Nursing care of patients undergoing kidney transplant surgery.
- Nursing care of children with chronic renal disease.
- Effectiveness of haemodialysis and peritoneal dialysis.
- Anaemia due to chronic renal disease.
- Diet in chronic renal disease.
- Infection control in special renal units.

RECOMMENDED READING
Renal Nursing, Vasiliki Matziou (2009). Lagos Editions, Athens (in Greek).
TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams

LANGUAGE OF INSTRUCTION
Greek

NURSING OF DISABLED PEOPLE

COURSE CODE
E051
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
8th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The course aims to equip students with the necessary knowledge and skills to: (a) provide comprehensive and individualized nursing care to people with disabilities under a variety of health services, (b) to promote standards to adapt to the loss of capacity, maximizing functionality and active participation in social life
PREREQUISITES
No Prerequisites
COURSE CONTENTS

- The object of nursing people with disabilities**.** Definitions of disability.
- Conceptual definition of terms: depression, loss of capacity, incapacity, disability and accessibility. International Classification of Physical Functioning, Disability and Health (ICF)
  Causes physical and mental dysfunction.
- Congenital and acquired disabilities. Permanent and temporary loss of function. Sensory problems: Vision - Hearing.
- Techniques that enable the functionality. Accident Prevention. Cognitive deficits: Cognitive function - communication.
- Techniques for facilitating communication. Accident Prevention. Motor problems: skill, movement, stretching.
- Techniques to facilitate personal care, transport and mobility. Accident Prevention
  Models of perception of disability.
- Models and reality. The experience of disability.
- Psychological impact of disability on personality. Social dimensions of disability. Case Studies
  Processes adjustment to disability
- Holistic nursing care of persons with disabilities in the hospital and Community
- Mentoring and empowering people with disabilities and their families
- Rehabilitation centers and other services for people with disabilities

- Specific issues for the organization and delivery of health services, education and social services for people with disabilities

RECOMMENDED READING

- ACSM'S Recommendations of Planning Training and Evaluation Programs. 8th edition, American Sports Medicine Society (in Greek).
- Development theories and Disability. Hodapp Robert M. (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

PSYCHOSOCIAL REHABILITATION

COURSE CODE

E045

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

8th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The aim of the course is the introduction of the Nursing student to the theory and practice of psychosocial rehabilitation of people who suffer from a chronic mental disorder (schizophrenic disorders, bipolar disorders, mental retardation, addictions from substances and alcohol). Special emphasis is placed on the concepts of chronic ailments, the foundation of functionalism and the instigation of disability while knowledge is provided regarding the procedure of implementing the transition phase of rehabilitation (partial nursing) and its main phase (social, housing and professional rehabilitation) as well as the assessment of the result.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to Community Psychiatry: history and developmental context. Community Psychiatry and Psychiatric Reform in Greece
- Basic principles of Community Psychiatry: Sectorization, Comprehensiveness, continuity of care
- Chronic disorder, functionalism, institutionalization, deinstitutionalization and psychosocial rehabilitation: conceptual context. Deinstitutionalization policy.

- *Environment and psychosocial rehabilitation. Public awareness and sensitization campaigns- Community Education, Strategies of coping with prejudice and stigmatization*
- Identity and function of mental health services and community rehabilitation structures: horizontal and vertical linkage
- Psychosocial rehabilitation in practice: early- transition phase
- Main phase of psychosocial rehabilitation (social, housing, vocational rehabilitation)
- Organization and implementation of psychosocial rehabilitation programs.
- The concept of dangerousness. Crisis and crisis intervention in community
- Community mental health care promotion. Heath education. Counselling.
- Social support systems. Volunteer work. Self- help groups
- The Multiprofessional health care team and the role of nurse in psychosocial rehabilitation
- Ethical and legal issues in psychosocial rehabilitation

RECOMMENDED READING

- Psychiatry and Rehabilitation, Michael G. Madianos, 2005, Kastaniotis, Athens (in Greek).
- Chronic disease and nursing care. An holistic approach, Despoina Sapountzi-Krepia, 2004. Ellin, Athens (in Greek).

TEACHING METHODS

Lectures, Tutorials

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

EVIDENCE BASED NURSING

COURSE CODE

E033

TYPE OF COURSE

Elective

LEVEL OF COURSE

Undergraduate

SEMESTER

8th Semester

NAME OF LECTURER

Academic Staff

OBJECTIVE OF THE COURSE

The course aim is the recognition of the essential elements of investigations, so that the students can read and understand research articles. In addition, students will learn how to identify research articles and determine whether specific research evidence is used in clinical decision and in nursing care planning. Also, special emphasis is given on critical evaluation of nursing practice and data, and implementation strategies documented data in practice.

PREREQUISITES
No Prerequisites
COURSE CONTENTS

- Nursing evidence based. Conceptual approach benefit limitations and risks
- Clinical practice guidelines based on evidence
- Find research evidence
- Pilot evaluation of research evidence in evaluating clinical practice guidelines
- Shaping nursing protocols and clinical guidelines
- Linking research - practice, research information, reading research articles
- Qualitative, descriptive research and experimental research
- Associate Research and Cohort Research
- Systematic review of research studies
- Evaluating conclusions of systematic reviews in research studies and individual
- Reflective nursing process and evidence-based practice
- Implement evidence-based data in the nursing process
- Implement evidence-based practice and clinical learning in nursing administration

RECOMMENDED READING

- The New Medicine, Mountokalakis Theodoros (in Greek).
- Evidence Based Medicine, Sackett David L., Straus Sharon E., Richardson W. Scott (in Greek).

TEACHING METHODS
Lectures, Tutorials, Clinical Practice
ASSESSMENT METHODS
Written exams
LANGUAGE OF INSTRUCTION
Greek

CRITICAL ANALYSIS OF CLINICAL EXPERIENCES

COURSE CODE
E027
TYPE OF COURSE
Elective
LEVEL OF COURSE
Undergraduate
SEMESTER
5th Semester
NAME OF LECTURER
Academic Staff
OBJECTIVE OF THE COURSE
The course aim is the understanding of the concept of "reflection" or "reflection" through the various theoretical and philosophical models. The development of analytical capacity in clinical learning experience

and to integrate theory into clinical practice, improve mental
and conceptual skills in clinical practice and develop a critical thinking student. The ultimate goal is to improve the ability of control
and modification of clinical practice during the days practice in workplace through effective management of problems that arise with innovation.

PREREQUISITES

No Prerequisites

COURSE CONTENTS

- Introduction to the concept of "reflection". Definitions
- Philosophical and theoretical principles related to the concept of reflection. Introduction to "reflective thinking"
- Models of "reflective" thinking
- Models of "reflective" learning - theory Jarvis H
- Fostering critical thinking coupled with the ability to "reflection" in the field of academic education. Research Data
- Implement reflection models in health sciences in nursing education and clinical practice
- Critical analysis of clinical experiences through the process of reflection
- Changing the attitude of health professional
- The script logs the clinical practice in the process of reflection
- Ethics in reflective writing
- Research in the "reflective writing". Analysis calendars clinical experience of nursing students

RECOMMENDED READING

- Guide for the development of nursing care plan. Doenges Merilynn E., Moorhouse Mary Frances, Murr Alice C. (in Greek).
- Theory of Clinical Decision Making, Sparos L. (in Greek).

TEACHING METHODS

Lectures, Tutorials, Clinical Practice

ASSESSMENT METHODS

Written exams

LANGUAGE OF INSTRUCTION

Greek

NEW PRODUCT AND SERVICE DEVELOPMENT – INNOVATION

This course introduces the student to the importance of New Product/Service Development (NPD/NSD) for businesses, the types of new products/services available and the way new product/service portfolios are managed, the NPD/NSD strategies firms follow, the NPD/NSD models they use, as well as to the challenges of managing the NPD/NSD process and the reasons for success and failure of new products/services.

1st SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C001	ANATOMY I	3	1			4	4	5
2	C010	BIOSTATISTICS	2		2		4	4	5
3	C003	BIOLOGY	3	2			5	5	5
4	C004	BIOPHYSICS	3	1			4	4	4
5	C005	INTRODUCTION TO NURSING	2		2		4	4	6
6	C044	INTRODUCTION TO INFORMATICS	2	2			4	4	5
ELECTIVE COURSES									
1	E059	HEALTH LEGISLATION	3				3	3	2
2	E060	COMMUNICATION SKILLS	2	1			3	3	2
3	E054	ENGLISH (TERMINOLOGY) I	2		1		3	3	2

2nd SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C007	ANATOMY II	2	2			4	4	4
2	C011	FUNDAMENTALS OF NURSING I	3	4			7	6	7
3	C054	BIOCHEMISTRY	2	2			4	4	5
4	C017	HEALTH INFORMATICS	2	2			4	4	5
5	C002	HUMAN PHYSIOLOGY I	3	1			4	4	5
6	C069	HEALTH PSYCHOLOGY	4				4	4	4
ELECTIVE COURSES									
1	E013	NURSING THEORIES	2		1		3	3	3
2	E064	TEACHING AND LEARNING IN NURSING	1	2			3	3	3
3	E004	HUMAN GENETICS	2	1			3	3	3

3rd SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C014	MICROBIOLOGY	3	2			5	5	4
2	C015	COMMUNITY NURSING	2			4	6	6	8
3	C008	HUMAN PHYSIOLOGY II	3	1			4	4	4
4	C018	FUNDAMENTALS OF NURSING II	3			4	7	6	8
5	C013	ENGLISH (TERMINOLOGY) II	2		1		3	3	3
6	C045	SOCIOLOGY OF HEALTH	3		1		4	4	3
ELECTIVE COURSES									
1	E011	PATHOLOGICAL ANATOMY	2	1			3	3	2
2	E055	CLINICAL DIETOLOGY	2	1			3	3	2
3	E018	RESEARCH METHODOLOGY	2	1			3	3	3
4	E058	APPLICATIONS OF THE MOLECULAR BIOLOGY IN HEALTH SCIENCES	1	2			3	3	2

4th SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C016	EPIDEMIOLOGY	2		1		3	3	4
2	C019	DISEASE PREVENTION	2		1		3	3	5
3	C060	FIRST AID	2	2			4	4	6
4	C009	PHARMACOLOGY	3		1		4	4	5
5	C029	HEALTH SERVICES MANAGEMENT	3				3	3	5
6	C057	PATHOPHYSIOLOGY	3				3	3	5
ELECTIVE COURSES									
1	E066	HOME NURSING CARE	2			1	3	3	3
2	E024	GERONTOLOGICAL NURSING (ELDERLY NURSING CARE)	2			1	3	3	3
3	E017	HOSPITAL INFORMATION SYSTEMS	2	1			3	3	3
4	E067	PRIMARY HEALTH CARE	2			1	3	3	3

5th SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C028	SURGICAL NURSING I	3			3	6	**6**	**8**
2	C020	INTERNAL MEDICINE I	4			2	6	**6**	**8**
3	C022	SURGERY I	3			3	6	**6**	**6**
4	C026	MEDICAL NURSING I	3			4	7	**6**	**8**
ELECTIVE COURSES									
1	E068	EXERCISE PHYSIOLOGY	3				3	3	2
2	E065	HEALTH ECONOMICS	2		1		3	3	3
3	E053	CLINICAL BIOCHEMISTRY	1	2			3	3	2
4	E020	WORKPLACE HEALTH	2	1	1		3	3	3
5	E069	PERIOPERATIVE NURSING	2		1	1	3	3	3
6	E042	RADIOLOGY	2	1	1		3	3	2
7	E062	ENTREPRENEURSHIP AND MANAGEMENT FOR SMALL AND MEDIUM (SME) ENTERPRISES	3				3	3	4

6th SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C032	SURGICAL NURSING II	3			3	6	6	8
2	C025	INTERNAL MEDICINE II	4			2	6	6	8
3	C027	SURGERY II	3			3	6	6	6
4	C031	MEDICAL NURSING II	3			4	6	6	8
ELECTIVE COURSES									
1	E028	TRANSCULTURAL NURSING	3				3	3	3
2	E070	ONCOLOGY NURSING-PALLIATIVE CARE	2			1	3	3	3
3	E019	ANAESTHESIA NURSING	2			1	3	3	3
4	E030	HAEMATOLOGY	2	1			3	3	2
5	E061	IMMUNOLOGY	2	1			3	3	2
6	E063	NEW PRODUCT AND SERVICE DEVELOPMENT-INNOVATION	3				3	3	4
7	E072	STUDENT PRACTICE PROGRAMME				16	16		5

7th SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C046	CRITICAL CARE MEDICINE	1			2	3	3	3
2	C047	CRITICAL CARE NURSING	1			2	3	3	5
3	C036	PSYCHIATRY	2			2	4	4	3
4	C042	MENTAL HEALTH NURSING	2			3	5	5	5
5	C038	ORTHOPAEDICS	2	2			4	4	3
6	C058	OBSTETRICS GYNECOLOGY	2			2	4	4	3
7	C030	PEDIATRICS	2			2	4	4	3
8	C034	PEDIATRIC NURSING	2			3	5	5	5
ELECTIVE COURSES									
1	E029	INTERDISCIPLINARY APPROACH TO HEALTH CARE	1		2		3	3	2
2	E056	TRAVEL HEALTH	2		1		3	3	3
3	E057	NURSING OF CARDIOVASCULAR DISEASES	2	1		1	3	3	3
4	E048	COMPUTER APPLICATIONS IN FINANCIAL MANAGEMENT OF HEALTHCARE UNITS	2	1			3	3	3
5	E071	SPORTS MEDICINE	2	1			3	3	2
6	E062	ENTREPRENEURSHIP AND MANAGEMENT FOR SMALL AND MEDIUM (SME) ENTERPRISES	3				3	3	4

7	E072	STUDENT PRACTICE PROGRAMME				16	16		5

8th SEMESTER									
COMPULSORY COURSES									
No	**COURSE CODE**	**COURSE TITLE**	**LECTURES**	**LABORATORY**	**TUTORIALS**	**CLINICAL PRACTICE**	**TEACHING HOURS/ WEEK**	**COURSE MARKS**	**ECTS**
1	C053	NURSING SERVICES MANAGEMENT-NURSING CARE MODULES	3		1	2	6	6	7
2	C040	CLINICAL MEDICAL NURSING				8	8	6	6
3	C041	CLINICAL SURGERY NURSING				8	8	6	6
4	C059	NOSOCOMIAL INFECTIONS	2			2	4	4	3
5	C048	ETHICS AND CONDUCT IN NURSING	2		1		3	3	3
6	C061	THERAPEUTICS-CLINICAL NURSING ASSESSMENT	1		3		4	4	5
ELECTIVE COURSES									
1	E049	RENAL NURSING	2			1	3	3	3
2	E051	NURSING OF DISABLED PEOPLE	1	1		1	3	3	3
3	E045	PSYCHOSOCIAL REHABILITATION	2			1	3	3	2
4	E033	EVIDENCE-BASED NURSING	1	2			3	3	3
5	E027	CRITICAL ANALYSIS OF CLINICAL EXPERIENCES	1	2			3	3	2
6	E063	NEW PRODUCT AND SERVICE DEVELOPMENT-INNOVATION	3				3	3	4
7	E072	STUDENT PRACTICE PROGRAMME				16	16		5

POSTGRADUATE PROGRAM OF STUDY

REGULATION OF OPERATION OF POSTGRADUATE PROGRAM IN «MANAGEMENT OF HEALTH SERVICES AND CRISIS MANAGEMENT»

Introduction

The Faculty of Nursing of the University of Peloponnese has been organizing and operating Postgraduate Program (PP) since the 2009-2010 academic year, in accordance with the provisions of the present regulation, as described in the No. 49231/Β7 minister decision (ΦΕΚ 1479/22.07.2009) and the 3685/2008 Gov. Law.

The Postgraduate Program awards: Postgraduate Specialization Diploma in «Management of Health Services and Crisis Management». This degree is equal to the international degree of MSc (Master of Science). The Postgraduate Program awards Postgraduate Specialization Diploma in «Management of Health Services and Crisis Management» in one of the following two sections:

I. *Emergency Health Care*
II. *Organization and Management of Health Services*

The provisions of the Regulation of Postgraduate Studies, as these are analyzed below, specialize and complement the legislative framework which governs postgraduate studies and regulate, in a unified way, the operation matters of the specific Postgraduate Program which are not regulated by the legislation in force but either relevant authorization is provided by law or they are regulated by decisions made by the Coordinating Committee of the Program and the General Congress Special Construction (G.C.S.C.).

Subject matter/Aim

The subject matter of the Postgraduate Program in Management of Health Services and Crisis Management constitutes:

a) Promotion of knowledge and development of research in Management of Health Services.
b) Preparation of executives who respond to the modern needs of prevention, organization and management from a humanistic, health but also political and economic point of view, local and wider local crises, mass disasters and emergencies.
c) Promotion of Management of Health Services and understanding of the contribution of this specific science to Crisis Management, through the specialized knowledge and experience which the specific program provides.

The aim of the Postgraduate Program is the introduction and guidance of the postgraduate students to scientific education and research, so that the postgraduate degree holders can design and carry out research and educational programs, assess and implement the results with a view to promoting the subject matter and improving the desirable result of interventions in cases of crises, mass disasters and emergencies.

COURSES

SEMESTER A'
CORE COURSES (30 ECTS)

A) Principles of the Administration of Organizations and Projects (8 ECTS)
B) Research Methodology and Statistics (8 ECTS)
C) Principles of Marketing (7 ECTS)
D) Health Economics (7 ECTS)

SEMESTER B'
CORE COURSES (30 ECTS)

A) Epidemiology (8 ECTS)
B) Human Resources Management (8 ECTS)
C) Legislation of International Law & of Human Rights (7 ECTS)
D) Administration of Total Quality in Services (7 ECTS)

SEMESTER C'
- Two major courses
- One elective course

Major courses (20 ECTS)

I. Emergency Health Care
- Emergency Health Care (12 ECTS)
- Political and Institutional Factors in Crisis Management (8 ECTS)

II. Management and Administration of Health Services
- Information Systems of Management of Health Services (12 ECTS)
- Political and Institutional Factors in Crisis Management (8 ECTS)

ELECTIVE COURSES (10 ECTS)

- Organization of Training Programs of Crisis Management in the Community
- Natural and Environmental Disasters
- Mass media and Mass Disasters
- Management of Mental Health in Mass Disasters
- Child and Mass Disasters
- Management of Resources in Mass Disasters
- Health Education and Health Promotion
- Safety and Hygiene in the work environment
- Crisis Management in the Developing World
- Management of Mental Health of Health Professionals

SEMESTER D'
Postgraduate dissertation (30 ECTS)

UNDERGRADUATE PROGRAM OF STUDY FOR STUDENTS WHO FOR STUDENTS WHO ENROLLED THE ACADEMIC YEAR 2014-2015

ABBREVIATIONS

CT	**COURSE TYPE**
CO	**COMPULSORY COURSE**
EL	**ELECTIVE COURSE**
L	**LECTURE**
T	**TUTORIAL**
LAB	**LABORATORY**
CP	**CLINICAL PLACEMENT**
H/SEM	**HOURS/SEMESTER**
TOT	**TOTAL**
ECTS	**EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM**

1st SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO001	ANATOMY I	CO	3	1			4	52	NO	5
2	CO002	HUMAN PHYSIOLOGY I	CO	3	1			4	52	NO	5
3	CO003	BIOLOGY	CO	2	2			4	52	YES	5
4	CO013	ENGLISH (TERMINOLOGY)	CO	3				3	39	YES	3
5	CO074	INTRODUCTION TO NURSING SCIENCE	CO	2		1		3	39	NO	4
6	CO010	BIOSTATISTICS	CO	2		2		4	52	NO	4
7	CO017	HEALTH INFORMATICS	CO	2	1			3	39	YES	4
		TOTAL						**25**			**30**

2nd SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1.	CO007	ANATOMY II	CO	3	1			4	52	NO	4
2.	CO011	FUNDAMENTALS OF NURSING I	CO	3	3			6	78	NO	7
3.	CO054	BIOCHEMISTRY	CO	3	1			4	52	YES/ ELECTIVE	4
4.	CO008	HUMAN PHYSIOLOGY II	CO	3	1			4	52	NO	4
5.	CO029	HEALTH SCIENCES ORGANISING	CO	3		1		4	52	NO	4
6.	CO069	PSYCOLOGY OF HEALTH	CO	4				4	52	ELECTIVE	4
7.		ELECTIVE COURSE	EL					3	39		3
		TOTAL						29			30
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											
1	EL076	BIOPHYSICS-BIOMEDICAL ENGINEERING	EL	2	1			3	39	NO	3
2	EL079	NURSING CARE PLANE DEVELOPMENT	EL	2		1		3	39	YES/ ELECTIVE	3

3	EL078	HISTORY AND PHILOSOPHY OF SCIENCE	EL	3				3	39	ELECTIVE	3

3rd SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO016	EPIDEMIOLOGY	CO	3		1		4	52	NO	5
2	CO076	PHARMACOLOGY I	CO	3				3	39	NO	3
3	CO045	SOCIOLOGY OF HEALTH	CO	4				4	52	ELECTIVE	4
4	CO018	FUNDAMENTALS OF NURSING II	CO	2	1		2	5	65	YES	7
5	CO014	MICROBIOLOGY	CO	3	1			4	52	NO	4
6	CO015	COMMUNITY NURSING I	CO	2			4	6	78	YES	7
		TOTAL						**26**			**30**

4th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO020	INTERNAL MEDICINE I	CO	4			1	5	65	NO	6
2	CO026	MEDICAL NURSING I	CO	2			3	5	65	YES	7
3	CO028	SURGICAL NURSING I	CO	2	1		1	4	52	NO	4
4	CO075	SURGERY	CO	4			1	5	65	NO	5
5	CO077	PHARMACOLOGY II	CO	3				3	39	NO	3
6	CO078	COMMUNITY NURSING II	CO	2	2			4	52	YES	5
		TOTAL						**27**			**30**

5th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1.	CO025	INTERNAL MEDICINE II	CO	4			2	6	78	YES	7
2.	CO031	MEDICAL NURSING II	CO	2			3	5	65	YES	7
3.	CO032	SURGICAL NURSING II	CO	2	1		2	5	65	YES	6
4.	CO079	INTRODUCTION TO PSYCHIATRY	CO	3		1		4	52	ELECTIVE	4
5.		ELECTIVE COURSE *	EL					3	39		3
6.		ELECTIVE COURSE*	EL					3	39		3
		TOTAL						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 2)											
1.	EL 080	ONCOLOGY NURSING	EL	2		1		3	39	NO	3
2.	EL 028	TRANSCULTURAL NURSING	EL	1	2			3	39	YES	3
3.	EL081	NURSING OF MATERINTY AND OF GYNECOLOGY	EL	2			1	3	39	NO	3
4.	EL082	NUTRITION AND SPECIAL DIETS	EL	2		1		3	39	YES	3
5.	EL060	COMMUNICATIONS SCILLS	EL	2		1		3	39	ELECTIVE	3
6.	EL019	ANAESTHESIA NURSING	EL	2			1	3	39	NO	3
7.	EL017	HOSPITAL INFORMATION SYSTEMS	EL	2	1			3	39	YES	3
*** Students can choose Clinical Placement which equals with two elective courses**											
		CLINICAL PLACEMENT	EL								6

6th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1.	CO080	RESEARCH METHOLOGY	CO	2		2		4	52	YES	4
2.	CO081	ETHICS AND LAW IN HEALTH SCIENCES	CO	3				3	39	YES	4
3.	CO072	MENTAL HEALTH NURSING	CO	3			2	5	65	YES	7
4.	CO019	PREVENTIVE POLICIES AND PRACTICES	CO	3		1		4	52	NO	4
5.	CO082	NURSING THEORIES	CO	2		1		3	39	NO	3
6.	CO083	HEALTH ECONOMICS	CO	3		1		4	52	ELECTIVE	5
7.		ELECTIVE COURSE	EL					3	39		3
		TOTAL						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											
1	EL083	GENETICS	EL	2	1			3	39	YES/ELECTIVE	3
3	EL057	NURSING OF CARDIOVASCULAR DISEASES	EL	2			1	3	39	NO	3
4	EL020	HEALTH OF WORKPLACE	EL	2	1			3	39	NO	3

7th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO 053	NURSING SERVICES MANAGEMENT-NURSING CARE DELIVERY SYSTEMS	CO	3		1	2	6	78	YES	7
2	CO030	PEDIATRICS	CO	3	1			4	52	ELECTIVE	4
3	CO034	PEDIATRIC NURSING	CO	3	1		2	6	78	YES	7
4	CO060	FIRST AID	CO	2	1			3	52	NO	3
5		FINAL PROJECT OR 3 ELECTIVE COURSES									9
		TOTAL						**19**			**30**

8th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1.	CO084	CLINICAL NURSING	CO				10	10	130	YES	9
2.	CO061	THERAPEUTIC-CLINICAL NURSING ASSESSMENT	CO	3		1		4	52	NO	4
3.	CO085	PALLIATIVE CARE	CO	2			1	3	39	YES	4
4.	CO086	CRITICAL CARE NURSING-MEDICINE	CO	3	1		2	6	78	NO	7
5.	CO087	GERIATRIC NURSING	CO	2			1	3	39	NO	3
6.		ELECTIVE COURSE	EL					3			3
		ΣΥΝΟΛΟ						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											

1.	EL084	SURVEILLANCE OF HOSPITAL INFECTION	EL	2		1		3	39	ELECTIVE	3
2.	EL029	INTERDICHIPLINARY APPROCHE TO HEALTH CARE	EL	1		2		3	39	NO	3
3.	EL085	NURSING CARE OF CHILDREN WITH CHRONIC DISEASES	EL	2			1	3	39	NO	3

COURSES OUTLINES

1st SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO001	ANATOMY I	CO	3	1			4	52	NO	5
2	CO002	HUMAN PHYSIOLOGY I	CO	3	1			4	52	NO	5
3	CO003	BIOLOGY	CO	2	2			4	52	YES	5
4	CO013	ENGLISH (TERMINOLOGY)	CO	3				3	39	YES	3
5	CO074	INTRODUCTION TO NURSING SCIENCE	CO	2		1		3	39	NO	4
6	CO010	BIOSTATISTICS	CO	2		2		4	52	NO	4
7	CO017	HEALTH INFORMATICS	CO	2	1			3	39	YES	4
		TOTAL						**25**			**30**

ANATOMY I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO001**	**SEMESTER**	**1st**
COURSE TITLE	**ANATOMY I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**5**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of the subject is to provide students with the basic knowledge of the anatomical structures of the human body both at macroscopic and microscopic histological level. The embryology, as an integral part of the anatomy, provides knowledge about the creation and development of tissues and organs, and through this many genetic diseases and congenital abnormalities can be

After successful completion of this course, the student will be able to:

- Be familiar with the anatomical structures of the human body.
- Be familiar with the basic knowledge about creation and development of tissues and organs.
- Be aware of the different tissues that the human body is composed.

General abilities

- Critical thinking
- Finding and processing information
- Decision-making process
- Promotion of free, creative and inductive thinking
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1) Basic knowledge of histology/ embryology.
2) Basic knowledge of anatomy – Musculoskeletal system (types of bones, joints, external bone links, spine, body balance).
3) Nervous system (neurons, brain, spinal cord).
4) Meninges, cerebrospinal fluid, brainstem, basal ganglia (basic nuclei).
5) Thalamus, hypothalamus, pituitary gland, reticular formation.
6) Senses, pain, Pyramidal and extrapyramidal system.
7) Cranial nerves. Autonomic nervous system.
8) Muscle fatigue, muscle coordination, fractures, musculoskeletal injuries. Special sensory organs (eye, ear).
9) Skin and mammary gland (breast).
10) Endocrine glands. Neuroendocrine system (pituitary gland, hypothalamus, pineal gland, thyroid, parathyroid, adrenal, ovary, testicle).
11) Cervix (anatomical triangles – glands: thyroid, parathyroid, thymus, lymph nodes).
12) Shoulder – Arms.
13) Hip – Leg.

Laboratory course

- With the help of manikins, the students are trained in groups in order to learn the anatomical structures.
- Students also present course topics in order to get informed and get familiarized with the various resources (library, internet etc).
- Histological preparations for microscopic evaluation. Methods of observations and interpretation of microscopical anatomy (histology).

Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutoring Lab's Content: 13 Study and literature review: 73 **Total contact hours and training**: 125 hours (5 ECTS)
STUDENTS EVALUATION	Final written exam (80%) containing multiple choice questions and questions of short

	answers or essay writing. Oral or written laboratory examination or essay (20%).

RECOMMENDED READING
1) Ανατομική του Ανθρώπου – Δομή και Λειτουργία. Μπαλτόπουλος Π. 1η Έκδοση, 2003. Broken Hill Publishers LTD. (in Greek) 2) Εγχειρίδιο Περιγραφικής Ανατομικής. Platzer, Fritsch, Kuhnel, Kahle, Frotscher. 2η Έκδοση, 2011. Broken Hill Publishers LTD. (in Greek)

HUMAN PHYSIOLOGY I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**C0002**	**SEMESTER**	**1st**
COURSE TITLE	**HUMAN PHYSIOLOGY I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**5**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes
The scope of the subject is to provide students with the basic knowledge of physiological function of the human body. The subject teaches a basic understanding of physiological mechanisms with a deeper appreciation for the complexity and beauty of the human life, including the physical, chemical and molecular principles that control the function of the human organism. After successful completion of this course, the student will be able to: • describe • to develop • to determine • to understand The aim of course is the critical presentation of modern nursing theories and the theoretical position of Greek Nursing. After successful completion of this course, the student will be able to:

- describe the basic concepts of
- to develop the basic principles of analysis of the
- understand and combines the key concepts that compose
- to determine the characteristics, the concepts and relationships of nursing theories as well as their implementation in various nursing fields
- to understand the relationship of administration, education and research, and the way in which this is affected.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1) Cell and cell organelles. Cell Membrane and transport of substances through the cell membrane.

- Structure and function of eukaryotic cells and cell organelles. Structure and function of DNA.
- Cell membranes, passive and active transport, endocytosis and exocytosis, intercellular communication and receptors.

2) Nervous system-1.

- Structure of neurons, glial cells, membrane potentials, threshold, all-or-none principle, synaptic transmission, neurotransmitters.

3) Nervous system -2.

- Central and peripheral nervous systems, brain metabolism.

4) Skeletal muscle system.

- Structure, neuromuscular synapse, muscle contraction, motor unit, tetanus, muscle fatigue, energy requirements, types of skeletal muscles.

5) Control of Body Movement.

- Cerebral cortex, subcortical and basal nuclei, cerebellum, pyramidal and extrapyramidal tracts, muscle tone.

6) Smooth muscle.

- Structure, muscle contraction, types of smooth muscle.

7) Sensory physiology.

- Sensory receptors, stimulus, body senses (touch, movement, temperature and pain).

8) Vision, Hearing, Taste and Smell. Pain.

9) Endocrine Glands-1.

- Structure, synthesis, transport, metabolism and secretion of hormones, anterior and posterior pituitary, thyroid gland.

10) Endocrine Glands-2.

- Pancreas, adrenal glands and parathyroid glands.

11) Consciousness and behavior.

- Stages and disorders of consciousness, learning and memory.

12) Respiratory System-1.

- Structure, conducting and respiratory zones, anatomical dead space, alveoli, surfactant, mechanics of breathing, lung volumes and capacities, respiratory centers and regulation of breathing.

13) Respiratory System-2.

- Gas exchange between alveoli and tissues, function of blood on ventilation, oxygen and carbon dioxide transport, control of breathing, effect of exercise and high altitude on respiratory function.

Laboratory course

- Cell transport mechanisms and permeability of substances by using computer simulation
- Neurophysiology and nerve impulses by using computer simulation
- Skeletal muscle reflexes.
- Skeletal muscle contraction of calf muscle from frog by using computer simulation
- Endocrine system by using computer simulation
- Spirometry.
- DVD projection on physiology topics.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>39</td></tr>
<tr><td>Tutoring Lab’s Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>73</td></tr>
<tr><td>Total contact hours and training</td><td>125 hours (5 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (80%) containing Multiple choice questions and questions of short answers or essay writing. Oral or written laboratory examination (20%).</td></tr>
</table>

RECOMMENDED READING

1) Φυσιολογία. Linda S. Costanzo. 4η Έκδοση, 2012. Ιατρικές Εκδόσεις Λαγός Δημήτριος. (in Greek)
2) Ganong's Ιατρική Φυσιολογία. Barett K, Barman S, Boitano S, Brooks H. 1η Έκδοση, 2011. Broken Hill Publishers LTD. (in Greek)
3) Ιατρική Φυσιολογία. Guyton AC, Hall JE. Έκδοση 12η, 2013, Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εμπορική Εταιρία Επιστημονικών Βιβλίων. (in Greek)
4) Φυσιολογία του Ανθρώπου – Μηχανισμοί της Λειτουργίας του Οργανισμού. Vander A, Sherman J, Luciano D. 1η Έκδοση, 2011. Broken Hill Publishers LTD. (in Greek)

BIOLOGY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	CO003	**SEMESTER**	**1st**
COURSE TITLE	**BIOLOGY**		
TEACHING ACTIVITIES	**HOURS PER WEEK**	**ECTS**	
Lectures	**2**	**5**	
Laboratory exercises	**2**		
COURSE TYPE:	Of Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes		
URL:	https://eclass.uop.gr/courses/NRS173/		

Learning Outcomes

Expected Learning Outcomes

The purpose of this course is the understanding of basic cellular functions, structure, organization and differentiation.

Biology gives Nursing students the scientific basis for analyzing the structure and function of living organisms and their importance to humans and their environment. Moreover this course allows them to raise questions concerning the constant human and Nature interaction. At the end of the course the student will have acquired basic knowledge of human biology so as to be able to understand the role of cell dysfunction and its impact on the health and lifestyle of the human body and the general public.

After the successful completion of this course, student will be able:

- To analyze the scientific principles which regulate the level of organization and the complexity of living organisms.
- To understand the formation and functioning of living organisms.
- To classify organisms according to their structure and complexity.
- To describe microorganisms and their importance in maintaining homeostasis and health.
- To develop the scientific basis for understanding the cellular and biological processes which are associated with the function of human body.
- To understand the cellular processes and their regulation, interactions and importance to the function of human body and the appearance of pathologies.
- To apply the scientific method through practical exercises and preparation of an individual work, so as to understand the theoretical part of the course.

General abilities

- Find, organize and analyze data using the necessary technologies
- Individual work
- Group laboratory work
- Respect the natural environment

COURSE CONTENTS

Theoretical Part

- Structure and function of biomolecules I: Amino acids, peptides, proteins, enzymes, nucleic acids,
- Structure and function of biomolecules II: carbohydrates, lipids. Higher organization levels of macromolecules.
- Viruses: nucleoprotein complexes, reproduction, prions, virions
- Prokaryotic cell: morphology, comparison with the eukaryotic cell, bacterial reproduction and bacterial cultures methodology.
- Eukaryotic cell I: Structure and function of membranes, permeability of the membrane to micromolecules, active membrane transport, membrane potential, membrane signal transduction.
- Eukaryotic cell I: organelles, cytoplasmic membrane system, cellular secretion and endocytosis, mitochondria and chloroplast, cytoskeleton, nucleus.
- Genetic Matherial: DNA structure and organization, molecular organization of the genome, chromosome stucture, Genetic information flow.
- Regulation of gene expression I**:** regulation at the transcriptional and translational level. Biologically functional proteins
- Regulation of gene expression I: regulation of cell development and differentiation. Stem cells biology.
- Cellular interactions: intracellular signal transduction systems, extracellular matrix, cellular recognition and adhesion, cellular communication.
- Cell cycle: regulation and dysfunctions of cellular division, mitosis and meiosis, genetic recombination, cell death.
- Cancer: causes, characteristics of cancer cells, oncogenes, tumor suppressive's, metastatis, molecular diagnosis and therapy.
- Applications of molecular biology and biochemistry in diagnosis and therapy: restriction enzymes, DNA cloning, polymerase chain reaction (PCR), production of recombinant proteins
- Applications of molecular biology and biochemistry in diagnosis and therapy II: monoclonal antibodies, study of protein expression, gene therapy, gene imprinting, and forensic medicine.

Laboratory practice

- Microscopy: observation of fresh preparations of plant and animal cells.
- Microscopic observation of permanent human tissue preparations.
- Cell cultures of microorganisms and antibiotic susceptibility testing.
- Separation of blood`s components, determination of hematocrit, observation of fresh blood by coating, staining and counting of white blood cells.
- Eukaryotic cell cultures and their applications.
- Principles of recombinant DNA and cloning.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Presentations with Power Point program Use of electronic databases for literature search and simulation of biological models

<table>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures with personal presentation</td><td>26</td></tr>
<tr><td>Laboratory activities with physical presence

1) Laboratory Exercises
2)Use of electronic databases for literature search
3) Use of electronic databases for biological simulation models
4) Tutorial
5) Presentation and discussion of students’ work</td><td>26

Of which :

10

6

4

2
4</td></tr>
<tr><td>Study and analyze books and articles (independent)</td><td>50</td></tr>
<tr><td>Coursework (independent)</td><td>23</td></tr>
<tr><td>Total contact hours and training</td><td>125 Hours (5 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>1 Evaluation of the laboratory is comprised of:
a) the written reports presented by the student, as indicated in the methodology of each laboratory exercise and the results obtained from the experimental procedures.
b) a written evaluation of the laboratory which takes place in the final examination.
The laboratory work counts for the 20% of the final grade. The delivery of laboratory reports is prerequisite to participate in the final written evaluation of the course.
2 An individual work is presented and evaluated</td></tr>
</table>

	orally and comprises 10% of the total grade. 3 An exam covering half material taught, evaluates the knowledge of students. It is carried out at the 7 to 8 weeks of teaching; it is optional and represents 25% of the total grade. 4 The final exam is obligatory for all students. If students have participated in the optional exam above, will have their final exam count for 45% of the final grade. In case students have not participated in the optional exam, have their final exam count for 70% of the final grade.

RECOMMENDED READING

1. Alberts B.,Bray D.,Hopkin K.,Johnson A.,Lewis J.,Raff M.,Roberts K.,Walter P. Βασικές Αρχές Κυτταρικής Βιολογίας , BROKEN HILL PUBLISHERS LTD, Αθήνα, 2006 (in Greek).
2. Brown T. A. Γονιδιώματα - σύγχρονες ερευνητικές προσεγγίσεις BROKEN HILL PUBLISHERS LTD Αθήνα, 2010 (in Greek).

ENGLISH (TERMINOLOGY)

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO013**	**SEMESTER**	**1st**
COURSE TITLE	**ENGLISH (TERMINOLOGY)**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures		**3**	**3**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

The purpose of this course is to make the student capable to develop skills related to English scientific speech in the level of oral and written communication.

After successful completion of this course, the student will be able to:

- recognize the characteristics of formulation and composition of the English language and scientific specialty,
- to understand the literature of Nursing Science which is written in English language and
- to monitor and carry out oral presentation of special topics participating in subsequent discussion and composing brief or comprehensive written text fluently using the required scientific terminology of the subject.

General abilities

- Independent work
- Teamwork
- Work in an international environment
- Work in a multidisciplinary environment

COURSE CONTENTS

1. Medical Terminology-Vocabulary in sentences in accordance with S. Present-Present Continuous.
2. Practice with Medical Prefixes-Definitions-use of Future Tenses.
3. Basic structures-The parts of the body and Directional Terms. Further practise, in using the past tenses (S. Past, Past Continuous).
4. Translation Practice with Medical-English terms. Practice with Prefixes-Pronoun, Plural Number and prepositions of place.
5. Practice with Suffixes-Root words and review on grammatical phenomena (i.e. Articles, Possessives).
6. Grammar: Prepositions of Time-Too and Enough-Written Speech in class.
7. Controlled Writing Exercises-group work in class-Body Tissue.
8. Grammar: S. Present Perfect-Continuous. For, Since, How long, Since when. Sentence patterns-Team work.
9. Reading Comprehension-Muscle Tissue classification-Medical vocabulary.
10. Some Medical Abbreviations-Terms (Specialty-Specialist-Limits of field)-Drills.
11. Texts for practice: Plasma, Blood and vocabulary. Sentence Formation. Active-Passive Voice-exercises in accordance with Medical Terms.
12. The Neuromuscular Function-Comprehension-Questions for Comprehension). Tenses: Past Perfect Simple and Continuous. The Vertebra: Discussion and Dialogue. Building sentences.
13. Anatomical Structures. Parts of the body. Tenses: Future Perfect Simple and Continuous. A general review on the taught Medical Material.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In class (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support of the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures (interactive teaching)</td><td>26</td></tr>
<tr><td>Study and analysis of literature</td><td>49</td></tr>
<tr><td>Total contact hours and training</td><td>75 hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (100%) containing multiple choice questions and questions of short answers.</td></tr>
</table>

RECOMMENDED READING
1. Tamaccio, A. Let's speak The language of medicine. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2007. 2. Glendinning E., Howard R., Professional English in Use, Medicine, 2007. 3. Rice j, Medical Terminology with Human Anatomy, Prentice Hall, 2005. 4. Fregmen B, Frught Suz., Medical Terminology, Prentice Hall, 2005.

INTRODUCTION TO NURSING SCIENCE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO074**	**SEMESTER**	**1st**
COURSE TITLE	**INTRODUCTION TO NURSING SCIENCE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Tutorials		**3**	**4**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes

The purpose of this course is to familiarize students with contemporary Nursing Science by comprehending the philosophical and conceptual framework and clinical dimensions. Describes the contribution of nursing practice in the prevention and treatment of disease, rehabilitation and health promotion as well as the dynamics of Nursing Science in contemporary reality. Special emphasis is given to the development and registration of nursing process in order for the students to understand the management of patient care in a scientific, holistic and dynamic way.

After successful completion of this course, the student will be able to:

- describe the conceptual and philosophical framework of Nursing Science and clinical dimensions,
- explain the contribution of nursing practice in the prevention and treatment of disease, rehabilitation and health promotion as well as the dynamics of Nursing Science in contemporary reality,
- developing stages of the nursing process and recognize its importance in the context of patient care with scientific, holistic and dynamic way,
- identify the current trends in the field of nursing education, research, administration and clinical practice.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Work in multicultural enviroment
- Generating new research ideas
- Adapting to new situations

COURSE CONTENTS

Theoretical Part

1. Conceptual framework and philosophy of Nursing.
2. Historical Evolution of international and Greek Nursing.
3. Health and Disease. Disease Theories and pathogenesis.
4. Promoting health: individual, family, community.
5. Contemporary nursing care in a multicultural environment.
6. Moral, ethical and legal aspects in Nursing.
7. Nursing process: Assessment, Nursing Diagnosis and Planning.
8. Nursing process: Nursing care plan Implementation and Evaluation.
9. Nurse patient relation and communication .
10. Professional nursing standards and key professional roles.
11. Current Trends in Nursing Education, Administration, Research, Ecology.
12. Nursing research and evidence based nursing..
13. Safety in the clinical setting.

Tutorial part

Critical investigation of questions and concerns arising from the application of nursing theories and models in contemporary practice (clinical practice -Research - education - administration).
Description, analysis and recording of the nursing process.
Scenarios of effective communication in the therapeutic relationship.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	

Teaching Activities	***Hours workload***
Lectures	26 hours
Tutoring Lab's Content	13 hours
Study and literature review	61 hours
Total contact hours and training	100 Hours (4 ECTS)

STUDENTS EVALUATION	Final written exam (it counts 100%) containing: Multiple choice questions and questions of critical thinking.

RECOMMENDED READING
1. Ζυγά Σ. Εισαγωγή στη Νοσηλευτική Επιστήμη. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2013. 2. Taylor C., Lillis C., Le Mone P. Θεμελιώδεις Αρχές της Νοσηλευτικής. BROKEN HILL PUBLISHERS LTD, 2006 3. De Wit S. Βασικές Αρχές και Δεξιότητες της Νοσηλευτικής Φροντίδας. Εκδόσεις Δημήτριος Λαγός, Αθήνα, 2012.

BIOSTATISTICS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO010**	**SEMESTER**	**1st**
COURSE TITLE	**BIOSTATISTICS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and exercises (tutorials)		**4**	**4**
COURSE TYPE:		Of General Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes
The aim of Biostatistics is to familiarize students with the basic concepts and methods of Statistical Science on the analysis and presentation of data from the health sciences. In addition, this course will provide students the necessary skills that will help them to more easily attend courses of following semesters, such as Epidemiology, Research Methodology, etc. Even nursing courses, use statistical terminology such as frequencies, percentages, mean values, critical values, and confidence intervals, to present their context. Completing the course successfully, students will be able to • identify the various statistical methods, • distinguish problems and choose the most appropriate statistical method to solve them, • examine data and produce results and new knowledge, • design and develop programs to solve problems that may cope with during their work, • manage and evaluate information, proposing solutions and taking critical decisions under uncertainty, and • communicate with other scientists and monitor international developments in their science, to compare data and critically read the literature.

General abilities

The course is designed to provide students with skills related to:

- Decision making
- Advance free, creative and causative thinking
- Work in a multidisciplinary environment
- Generation of new research ideas

COURSE CONTENTS

Lectures' Content

1. Introduction to Statistics
   a. Sectors of Statistics
   b. The aim of Biostatistics
   c. Terminology and basic notions
2. Collection and Data Presentation
   a. Frequency tables
   b. Graphical methods
3. Collection and Data Presentation
   a. Descriptive measures
4. Introduction to Probability Theory
   a. Algebra of events
   b. Definitions of probability
   c. Special distributions
5. Introduction to Inferential Statistics
   a. Normal distribution
   b. Statistical inference
   c. Confidence intervals
6. Hypothesis Testing – one sample
   a. General notions on hypothesis testing
   b. z test
   c. t test
   d. Hypothesis testing for a proportion
7. Hypothesis Testing – two samples
   a. Independent samples
   b. Dependent samples
   c. Difference of two proportions
8. Analysis of Variance (ANOVA)
   a. Introduction to one factor Analysis of Variance
9. Non-parametric tests
   a. Sign tests (one and two samples)
   b. Mann-Whitney test
   c. Wilcoxon test
   d. Kruskal-Wallis test
10. Contingency Tables
    a. χ^2 test of independence
    b. McNemar test
    c. Odds ratio
    d. Relative risk
11. Assessment of Screening Tests

a. Sensitivity
b. Specificity
c. Prevalence
d. Predictive value of screening tests

12. Correlation of Quantitative Variables
    a. Pearson's correlation measure
    b. Spearman's correlation measure
13. Linear Regression
    a. Simple linear regression model
    b. Multiple linear regression model

Tutoring Lab's Content

During the tutoring lab, exercises will be exemplary solved in order students to better understand the course context.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 26 Exemplary solving of exercises: 26 Study and literature review: 48 **Total contact hours and training**: 100 Hours (4 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 80%) containing: • Multiple choice questions • Exercises to be solved Laboratory reports (it counts 20%)

RECOMMENDED READING

1) Bowers, D. (2011). *Θεμελιώδεις Έννοιες στη Βιοστατιστική*, (Επιμέλεια Νίκος Μίτλεττον). Αθήνα, Αττικής: Εκδόσεις Π.Χ. Πασχαλίδης (in Greek).
2) Pagano, M. & Gauvreau, K. (2002). *Αρχές Βιοστατιστικής*, (Επιμέλεια Δαφνή Ουρανία). Αθήνα, Αττικής: Εκδόσεις Έλλην (in Greek).
3) Σταυρινός Β. & Παναγιωτάκος Δ. (2007). *Βιοστατιστική*. Αθήνα, Αττικής: Εκδόσεις Δάρδανος (in Greek).

HEALTH INFORMATICS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO017**	**SEMESTER**	**1st**
COURSE TITLE	**HEALTH INFORMATICS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**4**
COURSE TYPE:			
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes
The use of Informatics in the field of Health Care provides the field with various benefits related to the better health care delivery service as well as the facilitation of the work of the medical and nursing staff in a hospital. The course "Health Informatics" concerns all those students who are interested in getting familiarized with the applications of Information Systems in the field of Health in Greece as well as in other countries.

General abilities
• Decision-making process • Independent work • Teamwork • Promotion of free, creative and inductive thinking • Work in an international environment • Generating new research ideas

COURSE CONTENTS

Within the context of this subject, emphasis will be placed on topics such as:

- Basic Concepts & Information Terms
- Basic Concepts & Information of Medical Definitions
- Electronic Patient Records
- Hospital and Clinical Information Systems
- Laboratory Information Systems
- Telemedicine
- Medical Imaging
- Security in Medical Information
- Electronic Signature for Medical Documents
- Electronic Prescribing
- Smart Cards in Medicine
- E-health and M-health Systems
- Technological Trends in Health Sector
- Advanced Systems & New Services of Information Systems in Health Sector

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Tutoring Lab’s Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>61</td></tr>
<tr><td>Total contact hours and training</td><td>100 Hours (4 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (60%), Exercises (40%).</td></tr>
</table>

RECOMMENDED READING

1. Προηγμένα Συστήματα και Υπηρεσίες Πληροφορικής στο Χώρο της Υγείας, Αθηνά Λαζακίδου, Κωδικός Βιβλίου στον Εύδοξος: 22766539, Έκδοση: 2/012, ISBN: 978-960-92645-1-8 (in Greek).
2. Ιατρική Πληροφορική Τόμος Α, Παντελής Αγγελίδης, Έκδοση: 1η/2011, Εκδόσεις: «Σοφία» Ανώνυμη Εκδοτική & Εμπορική Εταιρεία, ISBN: 978-960-6706-43-1 (inGreek).

2nd SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
	CO007	ANATOMY II	CO	3	1			4	52	NO	4
	CO011	FUNDAMENTALS OF NURSING I	CO	3	3			6	78	NO	7
	CO054	BIOCHEMISTRY	CO	3	1			4	52	YES/ ELECTIVE	4
	CO008	HUMAN PHYSIOLOGY II	CO	3	1			4	52	NO	4
	CO029	HEALTH SCIENCES ORGANISING	CO	3		1		4	52	NO	4
	CO069	PSYCOLOGY OF HEALTH	CO	4				4	52	ELECTIVE	4
		ELECTIVE COURSE	EL					3	39		3
		TOTAL						29			30
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											
1	EL076	BIOPHYSICS-BIOMEDICAL ENGINEERING	EL	2	1			3	39	NO	3
2	EL079	NURSING CARE PLANE DEVELOPMENT	EL	2		1		3	39	YES/ ELECTIVE	3
3	EL078	HISTORY AND PHILOSOPHY OF SCIENCE	EL	3				3	39	ELECTIVE	3

ANATOMY II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO007**	**SEMESTER**	**2nd**
COURSE TITLE	**ANATOMY II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**4**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of the subject is to provide students with the basic knowledge of the anatomical structures of the human body both at macroscopic and microscopic histological level. The embryology, as an integral part of the anatomy, provides knowledge about the creation and development of tissues and organs, and through this many genetic diseases and congenital abnormalities can be

After successful completion of this course, the student will be able to:

- Be familiar with the anatomical structures of the human body.
- Be familiar with the basic knowledge about creation and development of tissues and organs.
- Be aware of the different tissues that the human body is composed.

General abilities

- Critical thinking
- Finding and processing information
- Decision-making process
- Promotion of free, creative and inductive thinking
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1) Basic knowledge of histology/ embryology.
2) Thorax (chest, chest wall, diaphragm)
3) Thorax (pleura, mediastinum, tracheotomy)
4) Thorax – respiratory system (nasopharynx, larynx, lung, breathing)
5) Thorax – respiratory system (bronchi, bronchoscopy, alveoli-capillary membrane)
6) Heart – Circulation (arteries, veins, anatomical vascular lesions)
7) Heart – Circulation (heart muscle, atria, ventricles, pericardium, electrical impulses that stimulate the heart)
8) Blood Circulatory System – Lymphatic vessels, Lymphatic system
9) Digestive system (oral cavity and its contents, taste, swallowing, salivary glands, digestive tract, stomach and intestine glands, liver, biliary system)
10) Male reproductive system (testes, epididymis, prostate gland, urethral glands, endocrine control) and female reproductive system (external and internal genitalia, menstrual cycle, pregnancy)
11) Pelvis – pelvic walls – torso – back
12) Pancreas, paragaglia, diffuse neuroendocrine system,
13) Urinary system (nephrons,, glomeruli, tubular and cluster system, renal failure)

Laboratory course

- With the help of manikins, the students are trained in groups in order to learn the anatomical structures.
- Students also present course topics in order to get informed and get familiarized with the various resources (library, internet etc).
- Histological preparations for microscopic evaluation. Methods of observations and interpretation of microscopical anatomy (histology).

<table>
<tr><td></td><td></td></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><td>Teaching Activities</td><td>Hours workload</td></tr>
<tr><td>Lectures</td><td>39</td></tr>
<tr><td>Tutoring Lab’s Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>48</td></tr>
<tr><td>Total contact hours and training</td><td>100 hours (4 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (80%) containing Multiple</td></tr>
</table>

	choice questions and questions of short answers or essay writing. Oral or written laboratory examination or literature review (20%).

RECOMMENDED READING
1) Ανατομική του Ανθρώπου – Δομή και Λειτουργία. Μπαλτόπουλος Π. 1η Έκδοση, 2003. Broken Hill Publishers LTD(in Greek) 2) Βασική Περιγραφική Ανατομική. Schunke, Schulte, Schumacher, Voll, Wesker. 1η Έκδοση, 2011. Broken Hill Publishers LTD (in Greek). 3) Εγχειρίδιο περιγραφικής ανατομικής. Platzer,Fritsch, Kuhnel, Kahle, Frotscher. 2η Έκδοση, 2011. Broken Hill Publishers LTD(in Greek)

FUNDAMENTALS OF NURSING I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO011**	**SEMESTER**	**2nd**
COURSE TITLE	**FUNDAMENTALS OF NURSING I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Practical application on dummies		**6**	**7**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes
The purpose of this course is the familiarity of students with the basic scientific knowledge which is necessary in order to deliver qualitative nursing care for the individual, family and community, understanding of the principles that underline, interpret and document the nursing applications and the development of the fundamental techniques and skills required in daily clinical practice. After successful completion of this course, the student will be able to: • describe the basic concepts that are required in order to provide effective and qualitative nursing care to the individual, family and community, • understand the principles of support, interpretation and documentation of nursing applications and • develop basic skills for providing nursing care in various conditions of health or disease.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Work in multicultural environment
- Generating new research ideas
- Adapting to new situations

COURSE CONTENTS

Lectures Part

1. Taking and recording of clinical history and health assessment.
2. Description – measurement and assessment of vital signs.
3. Patient and environment hygiene and safety.
4. Basic principles of sterilisation, antisepsis and disinfection.
5. General principles of drug administration (peros, IM, IV, SC etc).
6. Basic principles of fluid and electrolyte administration.
7. General principles of transfusion of blood and blood derivatives.
8. Nursing assessment of nutrition state. Basic principles of Nutrition – Feeding of patients.
9. Nursing assessment of respiratory function. Oxygen therapy.
10. Basic principles of trauma care, impaired skin integrity care, prevention of bedsores.
11. Basic principles of stoma care.
12. Voiding of bladder and intestine.
13. Nursing care plan and guide for an immobilized patient.

Practical Application Part

The objective is to provide opportunities to consolidate theoretical knowledge and develop basic techniques and skills required in clinical practice. Each nursing procedure is demonstrated to small groups of students and then followed by practical application on dummies.

- Patient approach and assessment of their health needs and problems.
- Basic principles of sterilisation, antisepsis and disinfection.
- Personal hygiene of self-reliant and bedridden patients.
- Measurement – recording – assessment of vital signs.
- Drug administration.
- Vascular access (placement of peripheral and central lines) and basic principles of fluid and electrolyte administration and general principles of transfusion of blood and blood derivatives Blood sugar measurement – insulin administration.
- Application of oxygen therapy.
- Trauma care, skin care, prevention of bedsores.
- Voiding of bladder and intestine.

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	Lectures & Practical application on dummies	
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class	
Students Assessment	**Teaching Activities**	**Hours workload**

	Lectures	39
	Tutoring Lab's Content	39
	Study and literature review	97
	Total contact hours and training	175 hours (7 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 60%) containing Multiple choice questions and questions of critical thinking & Assessment of performance of nursing procedures in the laboratory (it counts 40%).	

RECOMMENDED READING

1. Mosby 's. Βασικές Ανώτερες και Ειδικές Νοσηλευτικές Διεργασίες. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2011 (in Greek).
2. Lynn P. Κλινικές Νοσηλευτικές Δεξιότητες και Νοσηλευτική Διεργασία. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011(in Greek).
3. Berman, Snyder, Jackson.Η νοσηλευτική στην κλινική πράξη. Εκδόσεις Δημήτριος Λαγός, Αθήνα, 2011(in Greek).
4. Παπαγεωργίου, Κελέση- Σταυροπούλου, Φασόη- Μπάρκα. Βασική Νοσηλευτική. ΙΩΑΝΝΗΣ ΚΩΝΤΑΝΤΑΡΑΣ, Αθήνα, 2013(in Greek).

BIOCHEMISTRY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO054**	**SEMESTER**	**2nd**
COURSE TITLE	**BIOCHEMISTRY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures		**3**	**4**
Laboratory exercises		**1**	
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes

Expected Learning Outcomes

Knowledge of biochemistry is essential for understanding the fundamental processes and metabolic disorders in humans.

After the successful completion of this course, the student will be able to:

• Understand the aqueous solutions and the importance of their balance for the proper functioning of the organisms.
• Distinguish the chemical functions of the different biomolecules.
• Understand the functional properties and the metabolic role of carbohydrates, lipids, amino acids, peptides, proteins and nucleic acids
• Classify and learn about the structure of the enzymes, so that they can understand their kinetics and action.
• Define the role of hormones, vitamins and coenzyme metabolism.
•Describe and understand the process of production of cellular energy through food and the explanation of the mechanism of storage, transport and conversion of cellular energy in various forms.
• Consider cases of biochemical disorders and their impact on health.

General abilities

•Browse, organize and analyze data using the necessary technologies.
• Individual work.
• Group laboratory work.
• Adapt to new situations and make decisions.
• Produce new research ideas.

COURSE CONTENTS

Theoretical Part

1. Liquid and electrolyte balance.
2. Acid-base balance.
3. Carbohydrate metabolism and its disorders.
4. Lipid metabolism and its disorders.
5. Metabolism of proteins and its disorders.
6. Plasma proteins, immunoglobulin's enzymes.
7. Coordination of medial metabolism: absorption, fasting and fatigue.
8. Regulatory molecules: hormones as extracellular messengers, hormonal regulation of the metabolism of calcium, phosphorus and electrolytes, neurotransmitters, growth factors, cytokines.
9. Thyroid and suprarenal disorders.
10. Evaluation of laboratory results, quality control results.
11. Tumor markers and their significance.
12. Analysis of clinical cases I.
13. Analysis of clinical cases II.

Laboratory practice

- Get familiar with the biochemical laboratory:
  a) Sampling, sampling errors, samples transfer, separation of blood components.
  b) Operation of the biochemical automatic analyzer.
- Glucose tolerance test, correlation with anthropometric measures.
- Chemical analysis of urine.
- Techniques for protein analysis.
- Solutions

<table>
<tr><th colspan="3">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td colspan="2">In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td colspan="2">Presentations with Power Point program
Use of electronic databases for literature search and simulation of biological models</td></tr>
<tr><td>Students Assessment</td><td>Teaching Activities</td><td>Hours workload</td></tr>
<tr><td></td><td>Lectures with personal presentation</td><td>39</td></tr>
<tr><td></td><td>Laboratory activities with physical presence
1) Laboratory Exercises
2)Use of electronic databases for</td><td>13

Of which :
6

2</td></tr>
</table>

	literature search 3) Use of electronic databases for biological simulation models 4) Presentation of work by students and discussion	2 3
	Study and analysis of books and articles (independent)	30
	Coursework (independent)	18
	Total contact hours and training	100 Hours (4 ECTS)
STUDENTS EVALUATION	1. Evaluation of the laboratory is comprised of: a) the written reports presented by the student, as indicated in the methodology of each laboratory exercise and the results obtained from the experimental procedures. b) a written evaluation of the laboratory which takes place in the final examination. The laboratory work counts for the 20% of the final grade. The delivery of laboratory reports is prerequisite to participate in the final written evaluation of the course. 2. An individual work is presented and evaluated orally and comprises 10% of the total grade. 3. An exam covering half material taught, evaluates the knowledge of students. It is carried out at the 7 to 8 weeks of teaching; it is optional and represents 25% of the total grade. 4. The final exam is obligatory for all students. If students have participated in the optional exam above, will have their final exam count for 45% of the final grade. In case students have not participated in the optional exam, have their final exam count for 70% of the final grade.	

RECOMMENDED READING
1. Nelson D., Cox . Lehninger Βασικές Αρχές Βιοχημείας BROKEN HILL PUBLISHERS LTD, Αθήνα 2011 (In Greek) 2. Loffler Georg. _Βασικές αρχές βιοχημείας με στοιχεία παθοβιοχημείας. BROKEN HILL

PUBLISHERS LTD, Αθήνα 2007 (In Greek)
3. Gaw Allan,Cowan Robert A.,O'Reilly Dennis S. J.,Stewart Michael J.,Shepherd James ,_Κλινική βιοχημεία. ΠΑΡΙΣΙΑΝΟΥ ΑΝΩΝΥΜΗ ΕΚΔΟΤΙΚΗ ΕΙΣΑΓΩΓΙΚΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΒΙΒΛΙΩΝ, Αθήνα 2010 (In Greek)
4. Devlin Thomas M. Βιοχημεία-κλινικοί συσχετισμοί. BROKEN HILL PUBLISHERS LTD. Αθήνα 2007 (In Greek)

HUMAN PHYSIOLOGY II

SCHOOL	of Human Movement and Quality of Life Sciences		
FACULTY	of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO008**	**SEMESTER**	**2nd**
COURSE TITLE	**HUMAN PHYSIOLOGY II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Laboratory exercises		**4**	**4**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The scope of the subject is to provide students with the basic knowledge of physiological function of the human body. The subject teaches a basic understanding of physiological mechanisms with a deeper appreciation for the complexity and beauty of the human life, including the physical, chemical and molecular principles that control the function of the human organism.

After successful completion of this course, the student will be able to:

- describe
- to develop
- to determine
- to understand

The aim of course is the critical presentation of modern nursing theories and the theoretical position of Greek Nursing.

After successful completion of this course, the student will be able to:

- describe the basic concepts of
- to develop the basic principles of analysis of the
- understand and combines the key concepts that compose
- to determine the characteristics, the concepts and relationships of nursing theories as well as their implementation in various nursing fields

- to understand the relationship of administration, education and research, and the way in which this is affected.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1) Blood
- Plasma, erythrocytes, hematopoiesis, hemoglobin, hematocrit, ABO system, Rhesus factor, Leukocytes, platelets.

2) Heart and Circulation
- Anatomy and histology of the heart, electrical activity of the heart, electrocardiogram, cardiac cycle, cardiac output.
- Coronary circulation, systemic and pulmonary circulation, pressure, flow and vascular resistance.

3) Vascular and lymphatic system.
- Arteries, arterial blood pressure, arterioles, capillaries, veins.
- Lymph node, lymphatic vessels and capillaries.

4) Cardiovascular system in health and disease. Hemostasis.
- Regulation of arterial pressure, hemorrhage, hypotension, exercise, hypertension, congestive heart failure, coronary disease, myocardial infarction.
- Blood clotting, hemostasis, dissolution of clots.

5) Digestive System.
- Structure of gastrointestinal tract, functions of gastrointestinal organs, stomach, liver, gall bladder, pancreas, small and large intestine, digestion and absorption of carbohydrates, lipids and proteins.

6) Regulation of energy metabolism and thermoregulation. Regulation of growth.
- Energy expenditure, energy body storage, thermoregulation.
- Bone development, growth hormonal effects.

7) Immune System-1.
- Non-specific and specific immunity, inflammation, interferons, lymphoid organs.

8) Immune System-2.
- Functions of B- and T-lymphocytes, natural killer-, helper- and suppressor- T-lymphocytes, immunological tolerance, systematic manifestations on infections.

9) Male Reproductive Physiology.
- Anatomy, spermatogenesis, sperm transfer, male hormones.

10) Female Reproductive Physiology.

- Anatomy, uterine tubes, ovulation, menstrual cycle, estrogen and progesterone effects, fertilization, pregnancy, parturition, lactation.

11) Kidneys.

- Structure of kidneys and urinary system, glomerular filtration, reabsorption in proximal tubule, proximal tubule excretion, urination.

12) Sodium, Potassium and Water Balance.

- Total balance and renal regulation of sodium and water, regulation of potassium and calcium.

13) Regulation of Calcium and Hydrogen ions.

- Homeostasis of calcium, acidosis and alkalosis.

Laboratory course

- Measurement of hematocrit.
- Erythrocyte sedimentation rate (ESR)
- Microscopic examination of the formed elements of blood. Differential white blood cell count.
- ABO and Rh blood typing.
- Electrical properties of cardiac muscle: automaticity and rhythmicity of frog heart muscle by using computer simulation.
- Electrocardiogram.
- Measurement of blood pressure.
- Hemostasis (clotting time, bleeding time).
- Chemical and physical processes of digestion by using computer simulation
- Glomerular filtration and urine formation by using computer simulation
- Acid/base balance by using computer simulation
- DVD projection on physiology topics.

<table>
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<tr><td>Information technology and telecommunications equipment</td><td colspan="2">Support the learning process through the electronic platform e-class</td></tr>
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<tr><td>Tutoring Lab’s Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>48</td></tr>
<tr><td>Total contact hours and training</td><td>100 hours (4 ECTS)</td></tr>
</table></td></tr>
<tr><td>STUDENTS EVALUATION</td><td colspan="2">Final written exam (80%) containing Multiple choice questions and questions of short answers or essay writing. Oral or written laboratory examination (20%).</td></tr>
</table>

RECOMMENDED READING
1) Φυσιολογία. Linda S. Costanzo. 4η Έκδοση, 2012. Ιατρικές Εκδόσεις Λαγός Δημήτριος (in Greek) . 2) Ganong's Ιατρική Φυσιολογία. Barett K, Barman S, Boitano S, Brooks H. 1η Έκδοση, 2011. Broken Hill Publishers LTD (in Greek). 3) Ιατρική Φυσιολογία. Guyton AC, Hall JE. Έκδοση 12η, 2013, Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εμπορική Εταιρία Επιστημονικών Βιβλίων (in Greek). 4) Φυσιολογία του Ανθρώπου – Μηχανισμοί της Λειτουργίας του Οργανισμού. Vander A, Sherman J, Luciano D. 1η Έκδοση, 2011. Broken Hill Publishers LTD (in Greek).

HEALTH SCIENCES ORGANISING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO029**	**SEMESTER**	**2nd**
COURSE TITLE	**HEALTH NURSING ORGANISING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**4**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

LEARNING OUTCOMES
Expected Learning Outcomes
The course aims on the study of health Services organizing through the analysis of the Health System into its component parts and the understanding of the transition process in an organized system. After the successful completion of this course the students will be able to: • acquire the knowledge of the importance of social policy and its impact on the health sector, • define the financial environment of the health sector and the importance of the private and public health sector, • describe health services at primary, secondary and tertiary level and recognize the importance of their existence, • identify the reasons of medical inflation and nursing shortage, • to define the importance of the pharmaceuticals, biotechnology and technology for health care, • define the funding sources as well as expenses for the health sector, and • define the various health systems.
General abilities

When students have completed successfully this course will be able to:

- calculate health indexes (mortality, fatality etc) and compare (benchmark) accordingly,
- calculate simple and complex indexes of health services utilization (coverage, average length of stay, turn over internal, throughput),
- estimate hospitals' needs in personnel and beds,
- distinguish various health systems and assess their effectiveness,
- work independently and/or as members of a team, and
- generate new research ideas.

COURSE CONTENTS

Theoretical part

1. The Social Policy and Health Sector
2. The definition of Health
3. Health Services Management and the Economic Environment for Health Sector
4. Production of Health Care
5. Hospital health care and other types of institutional care
6. Outpatient health care - Pharmaceutical Care - Public Health & Prevention
7. Human Resources for Health Sector - Health Technology
8. Demand for health services - Health Expenditure
9. Financing of Health Services System - Social and Private Health Insurance
10. The concept of the Health System - Convergence supply, demand and real needs
11. Equity
12. Quality and Evaluation of Health Services
13. Health Technology Assessment
14. Conclusions and course evaluation

Tutorial Part

During the tutorial part take place case studies and problem solving according to the theoretical part of the unit.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support of the learning process through the use of: • the OECD data base • e-class • web-class
Students Assessment	

Teaching Activities	**Hours workload**
Lectures	39
Tutorials	13
Study and literature review	48
Total contact hours and	100 hours (4 ECTS)

	training	
STUDENTS EVALUATION	Final written exam (100%) containing multiple choice questions and questions of short answers.	

RECOMMENDED READING
1. Λιαρόπουλος Λ., Οργάνωση Υπηρεσιών και Συστημάτων Υγείας, Ιατρικές Εκδόσεις ΒΗΤΑ, Αθήνα, 2007 (in Greek). 2. Οικονόμου Χ.,Πολιτικές Υγείας στην Ελλάδα και Ευρωπαϊκές Κοινωνίες, Εκδόσεις Διόνικος, Αθήνα, 2004 (in Greek).

PSYCHOLOGY OF HEALTH

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF STUDIES	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO069**	**SEMESTER**	**2rd**
COURSE TITLE	**PSYCHOLOGY OF HEALTH**		
TEACHING ACTIVITIES	**HOURS PER WEEK**		**ECTS**
Lectures	**4**		**4**
COURSE TYPE:	Of Specific Background - Compulsory		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS:	Yes		
URL:	http://eclass.uop.gr/courses/		

Learning outcomes	
Expected Learning Outcomes	
The course aims at: • Acquiring the basic knowledge in psychology as a human science • Familiarity with the theories of humanistic, cognitive and social psychology • Examination of the Models in health psychology • Examination of the relationship between nursing care and psychology • The role of psychology in pain, stress and their effective management • The discussion of the bad health habits as smoking, alcohol consumption, bad eating habits and not exercising • Being more familiar with the concepts of terminal illness, death and grief	
General abilities	

- Respect on diversity and multiculturalism
- Demonstration of social, professional and ethical responsibility and sensitivity to gender issues
- Adaptation to new situations
- Work in a multidisciplinary environment
- Criticism and self-criticism
- Teamwork
- Decision making

COURSE CONTENTS
1. About psychology – Humanistic psychology 2. Behavioral psychology 3. Cognitive psychology 4. Social psychology 5. Models in health psychology 6. Psychology and nursing care 7. The meeting of nurse and patient 8. Pain 9. Stress 10. Dealing with pain - Stress management 11. Dangerous health habits (smoking, alcohol consumption, bad eating habits and exercising) 12. Terminally illness, loss and grief 13. Applying psychology in specific situations

TEACHING AND LEARNING METHODS – ASSESSMENT		
Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	• Power point presentations (PPT) • Support of learning and teaching through the electronic platform e-class	
Students Assessment	**Teaching Activities**	**Hours Workload**
	Lectures	52
	Study and literature review	48
	Total contact hours and training	100 hours (4 ECTS)
STUDENTS EVALUATION	Final written exam (100%) containing questions of short answers and/ or multiple choice questions. Oral presentation (30%) and final written exam (70%) containing questions of short answers and/ or multiple	

	choice questions.

RECOMMENDED READING
1. Rana, D, Upton, D. Psychology for Nurses, PASCHALIDIS, Athens, 2010 (Eudoxus: 13256768) (in Greek) 2. Walker, J., Payne, S., Smith, P., Jarrett, N. Psychology for Nurses and the Caring Professions, PASCHALIDIS, Athens, 2011 (Eudoxus: 13256552) (In Greek) 3. DiMatteo, M.R., Martin, L.R. Health Psychology, PEDIO, Athens, 2011 (Eudoxus: 12724512) (in Greek) 4. Health Psychology Review (Journal, in English) 5. Journal of Health Psychology (Journal, in English) 6. Psychology, Health and Medicine (Journal, in English).

BIOPHYSICS – BIOMEDICAL ENGINEERING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL076**	**SEMESTER**	**2nd**
COURSE TITLE	**BIOPHYSICS – BIOMEDICAL ENGINEERING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and laboratory exercises		**3**	**3**
COURSE TYPE:		Of General Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS172/	

Learning Outcomes
The aim of this course is to understand natural phenomena, properties and parameters that describe the basic functions of the human body, the principles that describe these physical phenomena, principles of operation of medical devices, by means of which it is possible to "read" and interpret phenomena thereof. Completing the course successfully, students will be able to • know and understand natural phenomena and properties that describe key functions of the human body • be familiar with the basic operating principles of the main medical devices used in everyday clinical practice.

General abilities

The course is designed to provide students with skills related to:

- Critical thinking
- Search and information processing
- Decision-making
- Promotion of free, creative and inductive thinking
- Generating new research ideas

COURSE CONTENTS

Lectures' content

1. Introduction to Biophysics - Biomedical Engineering. Fundamentals of collection and processing of biological signals. Sampling and quantization of the analog signal. Biosignal Processing and scopes
2. Medical imaging and medical image processing. Basic medical imaging systems. Items medical imaging and imaging technologies. Basic procedures of digital medical image processing
3. Bioelectricity. Films, electrical properties of the cells. Bioelectric potentials. Receiving and processing of EMG
4. Physics of the cardiovascular system
5. Reception, processing and interpretation of ECG
6. Operation of the brain and electroencephalogram. Reception, processing and EEG characteristics. Physiological and evoked action potentials
7. Fluid Mechanics. Hemodynamics. Blood. Blood pressure and blood flow. Bloodstream characteristics. Normotensive. Invasive and non-invasive blood pressure measurement
8. Defibrillation and defibrillators
9. Sterilization and sterilization methods
10. Electrosurgical devices
11. Mechanics of the respiratory system, lung function tests. Lung volumes and capacities. Methods of measurement of changes in lung volume. Spirometry and Plethysmography. Pulse oximetry and capnography.
12. Vision Physics. Lenses. Image formation procedure. Refractive eye abnormalities
13. Ultrasound theory. Production and propagation of sound waves through biological tissues. Interaction of sound waves - living matter. Doppler effect. Blood flow study. Ultrasonic imaging reconstruction methods
14. Interaction of ionizing radiation with matter. Medical physics and radiology instrumentation. Classical X-ray imaging systems. Principles of digital X-ray systems

Laboratory exercises content

1. Medical equipment classification
2. Electrocardiogram
3. Blood pressure
4. Defibrillation
5. Pulse oximetry
6. Sterilization
7. Electrosurgical devices

8. Patient's Electrical Safety.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	Lectures and laboratory exercises
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class and laboratory exercises on specific medical equipment
Students Assessment	**Teaching Activities** / **Hours workload** Lectures: 26 Laboratory exercises: 13 Study and literature review: 36 **Total contact hours and training**: 75 hours (3 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 80%) containing: • Multiple choice questions • Questions of critical thinking Oral or written laboratory exam (it counts 20%)

RECOMMENDED READING

1. Herman I. Human Body Medical Physics 1st edition. Broken Hill Publishers LTD, 2009 (in Greek)
2. Cameron J, Skofronick J, Grant R. Human Body Physics 1st edition. Parisianos S.A Publications, Athens, 2002 (in Greek)
3. Clark John W Jr, Neuman Michael R, Olson Walter H. Medical Instrumentation: Application and Design 1st edition. Parikos G. Publications, Athens, 2004 (in Greek).

NURSING CARE PLAN DEVELOPMENT

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL079**	**SEMESTER**	**2nd**
COURSE TITLE	**NURSING CARE PLAN DEVELOPMENT**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Seminars		**3**	**3**
COURSE TYPE:		Specific Background (Elective)	

PREREQUISITES:	No
TEACHING LANGUAGE:	Greek
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	No
URL:	https://eclass.uop.gr/courses/NRS.....

Learning Outcomes

Expected Learning Outcomes

The module's aim is the development of students' knowledge and skills to design and implement an individualized nursing care plan for the management of persons', families' and communities' problems. Additional objectives include knowledge and skills regarding standardized nursing care.

Upon completion of this module, student should be able to:

- describe the importance of a resident's nursing care plan
- describe nursing taxonomies and develop skills to choose the appropriate regarding persons', families' and communities' problems
- describe nursing process and its components
- identify systematic methods for data collection and determine the documentation of nursing care
- choose and formulate Nursing Diagnosis, Expected Outcome and Nursing Intervention
- design and implement an individualized nursing care plan to a client situation
- review the nursing care plan according to care outcomes

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Critical thinking
- Promotion of free, creative and inductive thinking
- Work in an interdisciplinary context

COURSE CONTENTS

Theoretical Part

- The Nursing care. The importance of a resident's nursing care plan
- The Nursing Process – Nursing Classification
- The Standards of Nursing Care
- Nursing assessment
- The Documentation of assessment data
- Nursing Diagnosis – Classification – Types of problems
- Writing Nursing Diagnosis
- Planning of Nursing Care: Prioritizing the identified nursing diagnoses – Developing goals/outcome statements.
- Planning of Nursing Care: Planning nursing actions – Nursing Interventions
- Implementation of Nursing Care Plan – Nursing Orders – Discharge plan
- Evaluation of Nursing Care Plan – Judge the effectiveness of the nursing orders, strategies, and care plan
- Documentation of the Nursing Care Plan.
- Quality Assurance

Seminars

Interactive teaching, reflective practice, and case studies. Students work individually or at small groups according to seminar content. At the end of each seminar responses will be presented.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face).</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Seminars</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>36</td></tr>
<tr><td>Total contact hours and training</td><td>75 hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written examination (100%) including: multiple choices questions, case study analysis, short open ended questions.</td></tr>
</table>

RECOMMENDED READING

1. Doenges M. E., Moorhouse M.F, Murr A.C. Οδηγός Ανάπτυξης Σχεδίου Νοσηλευτικής Φροντίδας. 1η έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2009 (in Greek).

HISTORY AND PHILOSOPHY OF SCIENCE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL078**	**SEMESTER**	**2nd**
COURSE TITLE	**HISTORY AND PHILOSOPHY OF SCIENCE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:		Elective course	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes

Expected Learning Outcomes

The course focuses on the characteristics, methods, issues and products of science.

Students are acquainted with:

- an introduction to the history of science
- the key points of philosophical traditions on interpreting the scientific method
- deduction reduction, observation, experiment, hypothesis theory,
- rationalism, relativism and realism.
- several theories of philosophy of science
- philosophy of biomedical sciences

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Scientific thought before the Renaissance
2. From Renaissance to 20th century
3. Rational and non rational models of Science
4. Rational models of scientific change. Principles of rationality
5. Positivism and anti realism
6. Theories of Thomas Kuhn and Paul Feyerabend
7. Sociology of Knowledge
8. The problem of induction and the aim of Science
9. Karl Popper, induction and empirical falsification
10. Models and scientific theories
11. Models and Scientific realism
12. Unobservable entities and scientific theories
13. Unobservable entities and natural laws.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Study and literature review: 36 Total contact hours and training: 75 hours (3 ECTS)
STUDENTS EVALUATION	Written final exam:100% Short answer questions. Optional essay open presentation in classroom: 20% in such case written exam 80%

RECOMMENDED READING

1. Philosophy of science. Sfendoni –Metzou D. Ziti Thessaloniki
2. Introduction to Philosophy of science Salmon et al. ITE. PEK Heraklion Crete.

3rd SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO016	EPIDEMIOLOGY	CO	3		1		4	52	NO	5
2	CO076	PHARMACOLOGY I	CO	3				3	39	NO	3
3	CO045	SOCIOLOGY OF HEALTH	CO	4				4	52	ELECTIVE	4
4	CO018	FUNDAMENTALS OF NURSING II	CO	2	1		2	5	65	YES	7
5	CO014	MICROBIOLOGY	CO	3	1			4	52	NO	4
6	CO015	COMMUNITY NURSING I	CO	2			4	6	78	YES	7
		TOTAL						**26**			**30**

EPIDEMIOLOGY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**C0 016**	**SEMESTER**	**3rd**
COURSE TITLE	**EPIDEMIOLOGY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**5**
COURSE TYPE:		Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/ courses/	

Learning Outcomes

Expected Learning Outcomes

Aim of the course is the introduction to epidemiology.
The students learn how to

- understand the distribution and evolution of diseases and population characteristics
- the methods to identify the factors that form and affect such distributions.
- They learn the epidemiological studies and tools of research so that
- they can understand correlations and causative relations of biomedical phenomena.

The course covers both basic and advanced epidemiological aspects.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

- Introduction Causation, Sources of Data for Use in Epidemiology
- Descriptive Epidemiology, Observational studies
- Measures of Morbidity and Mortality Used in Epidemiology
- Descriptive epidemiology Person Time place
- Cohort studies
- Case control studies
- Evaluation of preventive measures
- Clinical epidemiology
- Experimental studies
- Measures of effect
- Screening
- Epidemiology and public health
- Epidemiology of infectious diseases & outbreaks

Tutorial part

Tutorial exercises for the discussion of epidemiological papers and problem solving

Practice of students in the search and evaluation of data in international bases of data (MEDLINE, PubMed, Cochrane Library).

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures / 39 Tutoring Lab's Content / 13 Study and literature review / 73 **Total contact hours and training** / 125 Hours (5 ECTS)
STUDENTS ASSESSMENT	Written final exam: 80% Short answer questions, problem solving Tutorials 20%

RECOMMENDED READING

3. Epidemiology and public health, Friis Robert H., Sellers Thomas A. Paschalides, Athens
4. Basic Epidemiology, Bonita R.,Beaglehole R.,Kjellstrom Tord. Paschalides Athens
5. General and clinical Epidemiology. D Trichopoulos, P Lagiou. Athens Parisianos.

PHARMACOLOGY I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**C0076**	**SEMESTER**	**3rd**
COURSE TITLE	**PHARMACOLOGY I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of the course is teaching the general principles of pharmacokinetics and pharmacodynamics, therapeutics, prescriptive medicine focusing on the nursing responsibility and intervention. What follows is the presentation of pharmaceutical substances into groups, analyzing their action, their therapeutic use, the undesirable effects and the interaction with other drugs.

After successful completion of this course, the student will be able to:

- be familiar with the basic principles of pharmacokinetics and pharmacodynamics
- be aware of the action, absorption, distribution and excretion of drugs for each system of the human body
- know the therapeutic and adverse effects of the drugs and their interactions with other drugs.
- understand how drugs are prescribed.

General abilities

- Critical thinking
- Finding and processing information
- Decision-making process
- Promotion of free, creative and inductive thinking
- Generating new research ideas

COURSE CONTENTS

- Introduction to pharmacology. Definition of 'drug'. Clinical trials of drugs.
- Pharmacokinetics. Administration and drug absorption, distribution and elimination of drugs from the human body.
- Distribution of drugs, Drug metabolism.
- Excretion and clearance of drugs. Pharmacodynamics.
- Drug receptors, drug doses, Therapeutic index. Dose-response curves, Safety and drug effectiveness.
- Drugs and Infections I: Principles of antimicrobial function. Antibacterials (cell wall synthesis inhibitors, protein synthesis inhibitors)
- Drugs and Infections II: Antibacterials (nucleic acid synthesis inhibitors, inhibitors of plasma membrane function)
- Drugs and Infections III: Antimycoplasmals, antichlamydial, antireketsiaka, antifungal, antiprotozoal.
- Drugs and Infections VI: Antiviral. Drugs for skin diseases.
- Medicines and endocrine glands (pituitary and thyroid hormones, insulin and hypoglycaemic drugs, steroid hormones)
- Medicines and respiratory system.
- Vitamins.
- Antineoplastic agents.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>39</td></tr>
<tr><td>Study and literature review</td><td>51</td></tr>
<tr><td>Total contact hours and training</td><td>90 Hours (3ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (85%) containing Multiple choice questions and questions of short answers or essay writing. Written essay (15%).</td></tr>
</table>

RECOMMENDED READING

1) Φαρμακολογία, Rang, Dale, Ritter, Moore. Έκδοση 7η, 2014. Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εταιρεία Επιστημονικών Βιβλίων (in Greek)
2) Νοσηλευτική Φαρμακολογία, Simonsen T, Kay I, Aarbakke J. Broken Hill Publishers LTD (in Greek)
3) Φαρμακολογία, Page Chive, Sutter M, Walker M, Hoffman B. Broken Hill Publishers LT (in Greek)
4) Φαρμακολογία, Harvey RA, Champe PC. Έκδοση 3η, 2007. Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εταιρεία Επιστημονικών Βιβλίων (in Greek).

SOCIOLOGY OF HEALTH

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF STUDIES	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO045**	**SEMESTER**	**3rd**
COURSE TITLE	**SOCIOLOGY OF HEALTH**		

TEACHING ACTIVITIES	**HOURS PER WEEK**	**ECTS**
Lectures	**4**	**4**
COURSE TYPE:	Of Specific Background - Compulsory	
PREREQUISITES:	No	
TEACHING LANGUAGE:	Greek	
COURSE CAN BE ATTENDED BY ERASMUS:	Yes	
URL:	http://eclass.uop.gr/courses/...	

Learning outcomes

Expected Learning Outcomes

The course aims at:

- Acquiring the basic knowledge of sociology as a society science
- Familiarity with the sociological approaches to health and illness, especially the chronic illness
- Examination of the health services in the modern era and of the inequalities to the provision of these services
- The knowledge of the concept of the role, especially to the professional one and the relationship between professionals and the public
- An introduction to the basic concepts of bioethics

General abilities

- Respect on diversity and multiculturalism
- Sensitivity to gender issues
- Demonstration of social, professional and ethical responsibility
- Promotion of free, creative and inductive thinking
- Adaptation to new situations
- Work in a multidisciplinary environment
- Criticism and self-criticism
- Teamwork

COURSE CONTENTS
1. Sociology as a society science 2. The sociology of health and illness 3. Health and illness, conceptual and interpretative approaches 4. The beliefs of the population on health and illness 5. Theory of quality of life 6. Social inequalities and health - The health services 7. Sociological approach of roles 8. Sociology of interaction between public and professionals 9. Weber and professional entrenchment 10. Feminism, feminine care and knowledge 11. The experience of chronic illness in sociological terms 12. Quality of life, cultural and chronic diseases 13. The importance of sociology and bioethics in the therapeutic relationship

TEACHING AND LEARNING METHODS – ASSESSMENT		
Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	• Power point presentations (PPT) • Support of learning and teaching through the electronic platform e-class	
Students Assessment	**Teaching Activities**	**Hours Workload**
	Lectures	52
	Study and literature review	48
	Total contact hours and training	100 Hours (4 ECTS)
STUDENTS ASSESSMENT	• Final written exam (100%) containing questions of short answers and/ or multiple choice questions. • Oral presentation (30%) and final written exam (70%) containing questions of short answers and/ or multiple choice questions.	

RECOMMENDED READING
1. Porter, S. Sociology for Health Professionals (*Social theory and nursing practice*),BROKEN, Athens, 2009 (Eudoxus: 13256478) (in Greek) 2. Sarris, M. Sociology of Health and Quality of Life, PAPAZISIS, Athens, 2001 (Eudoxus: 30184) (in Greek) 3. Nettleton, S. Sociology of Health and Illness, DARDANOS, Athens, 2002 (Eudoxus: 31717) (in Greek) 4. Journal of Health and Social Behavior (Journal, in English) 5. Social Science and Medicine (Journal, in English) 6. Sociology of Health and Illness (Journal, in English)

FUNDAMENTALS OF NURSING II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO018**	**SEMESTER**	**3rd**
COURSE TITLE	**FUNDAMENTALS OF NURSING II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Practical application on dummies, Clinical practice		**5**	**7**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes
The purpose of this course is the familiarity of students with the basic scientific knowledge which is necessary in order to deliver qualitative nursing care for the individual, family and community, understanding of the principles that underline, interpret and document the nursing applications and the development of the fundamental techniques and skills required in daily clinical practice. After successful completion of this course, the student will be able to: • describe the basic concepts that are required in order to provide effective and qualitative nursing care to the individual, family and community, • understand the principles of support, interpretation and documentation of nursing applications and • develop basic skills for providing nursing care in various conditions of health or disease.

General abilities
• Decision-making process • Independent work • Teamwork • Promotion of free, creative and inductive thinking • Work in an international environment • Work in multicultural environment • Generating new research ideas • Adapting to new situations

COURSE CONTENTS
Theoretical Part 1. Taking and recording of clinical history and health assessment 2. Recording and documentation of nursing care. 3. Basic principles of peri-operative nursing care 4. The experience of pain :assessment and implementation of care plan 5. Promoting Healthy and Physiological Responses: Activity 6. Promoting Healthy and Physiological Responses: Rest and Sleep 7. Promoting Healthy and Physiological Responses :Self-concept and self-esteem 8. Promoting Healthy and Physiological Responses :Stress management 9. Promoting Healthy and Physiological Responses : Loss – bereavement – death 10. Promoting Healthy and Physiological Responses : Sexuality 11. Nursing Care of Patients with Sensory Disorders: Vision and Hearing 12. End of Life Care 13. Ethical Issues in Daily Healthcare **Practical application and Clinical Practice Part** • The objective is to provide opportunities to consolidate theoretical knowledge and develop basic techniques and skills required in clinical practice. Each nursing procedure (basic, higher and specific) is demonstrated to small groups of students and then followed by practical application on dummies. And also, each nursing procedure is applied in selected Hospital clinics which are always under the supervision of a clinical instructor. • Description, analysis and recording of the nursing process. • Effective communication in the therapeutic relationship.

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	Lectures , Practical application on dummies, Clinical Practice	
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class	
Students Assessment	**Teaching Activities**	**Hours workload**
	Lectures	26
	Tutoring Lab's Content	13

	Clinical Practice	26
	Study and literature review	90
	Diary during clinical placements	20
	Total contact hours and training	175 Hours (7 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 80%) containing Multiple choice questions and questions of critical thinking & Assessment of written diary during clinical placements (it counts 20%).	

RECOMMENDED READING
1. Mosby 's. Βασικές Ανώτερες και Ειδικές Νοσηλευτικές Διεργασίες. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2011 (in Greek). 2. Lynn P. Κλινικές Νοσηλευτικές Δεξιότητες και Νοσηλευτική Διεργασία. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011(in Greek). 3. Berman, Snyder, Jackson. Η νοσηλευτική στην κλινική πράξη. Εκδόσεις Δημήτριος Λαγός, Αθήνα, 2011(in Greek). 4. Παπαγεωργίου, Κελέση- Σταυροπούλου, Φασόη- Μπάρκα. Βασική Νοσηλευτική. Εκδόσεις ΙΩΑΝΝΗΣ ΚΩΝΤΑΝΤΑΡΑΣ, Αθήνα, 2013(in Greek).

MICROBIOLOGY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO014**	**SEMESTER**	**3rd**
COURSE TITLE	**MICROBIOLOGY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Laboratorial course		**4**	**4**
COURSE TYPE:	Of General Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes		
URL:	https://eclass.uop.gr/courses/NRS137/		

Learning Outcomes
Expected Learning Outcomes

The course provides the principles of general microbiology, bacteriology, parasitology and mycology with particular emphasis on problems relevant to human health and disease.
The main purpose is to facilitate the understanding of infectious diseases of the various body systems based on the current data and the internationally established methodologies and assessment schemes.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Work in a multidisciplinary environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Introduction to Bacteriology. Taxonomy of bacteria. Morphology, properties and metabolism of bacteria.
2. Culture of clinical specimen. Detection of infections.
3. Gram (+) bacteria.
4. Gram (-) bacteria.
5. Infections of urogenital system.
6. Infections of Central Nervous system.
7. Infections of Gastrointestinal system.
8. Zoonosis. Infections and invasive devices.
9. Mycobacterial infections
10. Infections and leucopenia.
11. Fungal infections.
12. Viral infections.
13. Parasitology.

Laboratorial course

The laboratorial courses aim to make students familiar with :

1. the microbiology laboratory and the methodology commonly used.
2. standard microbiological techniques, stains, cultures and the operation of the optical microscope.
3. methods for the estimation of the sensitivity of bacteria to antibiotics.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and	Support the learning process through the

telecommunications equipment	electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures / 39 Tutoring Lab's Content / 13 Study and literature review / 68 **Total contact hours and training** / 120 Hours (4 ECTS)
STUDENTS EVALUATION	Final written exam (100%) containing multiple choice questions and questions of short answers. Laboratory exercises (20%)

RECOMMENDED READING

1. Microbiology an introduction (I, II), TORTORA-FUNKE-CASE, Ed. PASCALIDIS, Athens 2008
2. Case in Medical Microbiology and Infectious Diseases, Gilligan –Smiley –Shapiro, , Ed PASCALIDIS, Athens 2008
3. Medical Microbiology and Infectious at a Glance, Gillespie – Bamford, Ed. PARISIANOU, Athens 2002

COMMUNITY NURSING I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO015**	**SEMESTER**	**3rd**
COURSE TITLE	**COMMUNITY NURSING I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial (exercises, case studies, use of the Greek Statistics data base, Eurostat, Ministry of Health, KEELPNO, relative European and International agencies etc)		**6**	**7**
COURSE TYPE:	Of Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek (Possibility in English, as well)		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes
Expected Learning Outcomes

The course aims at understanding of the importance of tracking health needs of the community, of the family, of people, of the effects on health from social, ecological problems, environmental risks, of the importance of programming and provision of services of health promotion and surveillance of health behavior, in order to deal with problems effectively, in healthy and sick population.
When students have completed the course will be able to:
Evaluate and be sensitive in needs assessment of the population in the Community, in health promotion and in provision of holistic nursing services, in Primary Health Care settings, in outside hospital environment, in preventing health problems, promoting its health level in each age group, and in each special group (for ex. School population. Workers, pregnant/ confined women & baby, moving population, elderly etc) in any Community sector (Day clinic/center, workplace, home, school etc).

General abilities

When students have completed their course will be able to:

- promote health population in the Community
- offer health education in general, and of special groups, population
- offer care services in healthy and ill population
- evaluate the application of theories and nursing designs of community nursing in their workplace
- assess, predict and contribute to management of Public health Community problems, wherever they work
- assess and archive epidemiological profile of community population, taking into consideration environment and life conditions
- measure the quality of nursing care services and health level of community population
- act in multi-disciplinary team work climate being responsible and autonomous of nursing actions at national, European and international level

COURSE CONTENTS

Theoretical Part

- Introduction in Community Nursing and Historical Perspective
- Community Nursing Elaboration, methods of evaluation of a person, a family, a community
- Theories on Community Nursing, Betty Neuman, OMAHA system
- Principles and practice criteria of Community Nursing on quality and safety during implication
- Primary Health Care, roles and activities of nurses
- Health centers, objectives of their operation
- Environment and health. Role of community nurse.
- Trans-cultural approximation of community health
- Health promotion- Health education. Methodology, Health Education models.
- School Nursing
- Occupational Health Nursing
- Law in Community Nursing Practice

Practice of students

Emphasis on nursing practices In Primary Health Care facilities: community services (at Department of Greek Red Cross, epidemiological study and health needs assessment of community population, statistics of Public health of the prefecture: visit at the the department of Greek statistics service), Health Centers, (participation in its services), Emergency services and outpatient clinics of general hospital, services of institutionalization, prevention and rehabilitation, schools (health education lectures and immunization) , working areas(lectures and occupational health nursing), Gerontology nursing (visiting elderly home place), Community Mental health nursing (Asylum of incurable diseases, institution of chronically ill patients, Mental health hospice, center of prevention of addictions and psychosocial health promotion, mobile unit of mental health services), Home care services. Presentation of case studies in community nursing and use of school' s library. Circuit alternation of students. Compulsory written assignment per student, based on the visits at PHC settings in the Community.

Founding Community Nursing's laboratory will allow the upgrade of practice and work of students as it will ease daily operation and achievement of educational aims in under (and post) graduate level, in order to organize and start working following special units of: Public health, occupational health, Environmental health, primary Health Care, management of health services systems in the Community, Bioethics and Deontology in the Community, Health promotion and care in Home, School nursing (special education and classical), Studying of special groups of population- Transcultural nursing, Studying of diseases and caring of health needs of Community populations(for ex. Children- teenagers, workers, elderly etc).

<table>
<tr><th colspan="3">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td colspan="2">In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td colspan="2">• Use of the E/C, slide projector, websites relative to the courses, of Greek statistics Service's data base, of Eurostat etc
• E-class
Web-class</td></tr>
<tr><td>Students Assessment</td><td>Teaching Activities</td><td>Hours workload</td></tr>
<tr><td></td><td>Lectures</td><td>26</td></tr>
<tr><td></td><td>Tutoring Lab's Content practice in small groups in PHC settings or activities in co-operation with local, regional, national social, cultural and productive bodies</td><td>52</td></tr>
<tr><td></td><td>Study and literature review and written exercise</td><td>97</td></tr>
<tr><td></td><td>Total contact hours and training</td><td>175 Hours
(7 ECTS)</td></tr>
</table>

STUDENTS EVALUATION	Final written exam (70%) Person compulsory writing assignment (30%)

RECOMMENDED READING
1. Kalokairinou- Anagnostopoulou A., Sourtzi P. (2005) “COMMUNITY NURSING” Ed. BETA MEDICAL EDITIONS (In Greek) 2. Stanhope M., Lancaster J. (2009) “Community Nursing” Ed. Paschalidis P.CH. (In Greek)

4th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO020	INTERNAL MEDICINE I	CO	4			1	5	65	NO	6
2	CO026	MEDICAL NURSING I	CO	2			3	5	65	YES	7
3	CO028	SURGICAL NURSING I	CO	2	1		1	4	52	NO	4
4	CO075	SURGERY	CO	4			1	5	65	NO	5
5	CO077	PHARMACOLOGY II	CO	3				3	39	NO	3
6	CO078	COMMUNITY NURSING II	CO	2	2			4	52	YES	5
		TOTAL						**27**			**30**

INTERNAL MEDICINE I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate(1st cycle of studies)		
COURSE CODE	**CO020**	**SEMESTER**	**4th**
COURSE TITLE	**INTERNAL MEDICINE I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Practice		**5**	**6**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
(URL):			

Learning Outcomes

The aim of the course is to gain knowledge of specific nosology as well as to learn and apply methods of clinical assessment of the patient and of therapeutic process. The purpose of clinical practice is the practice in physical examination of the patient and to gain experience in performing interventional techniques.

After successful completion of this course, the student will be able to:

- describe and evaluate the diagnostic procedure, differential diagnosis and individualized treatment approach,
- evaluate and to document the subjective and objective data related to the diagnosis and care plan of the pathological patient
- develop clinical skills in providing health care
- apply the theoretical knowledge gained so far, in the design and implementation of nursing care being aware of the nosology,
- judge clinical decision-making in health care provision and be able to suggest care plan oriented to patient and disease, incorporating the principles of morality and ethics and,
- Identify and analyze issues related to research, evidence based practice and the improvement of the quality of provided nursing care.

General abilities

- Search, analysis and synthesis of data and information using essential technologies
- Adaptation to new situations
- Decision-making
- Independent work
- Teamwork
- Respect to diversity and multiculturalism
- Work in international environment
- Production of new research ideas

COURSE CONTENTS

1. Clinical examination of patient. Disease, symptom, physical sign, Diagnosis, Diagnostic access
2. Dyspnea, Coma, Fever, Pain
3. Peptic System: Main symptoms and signs, paraclinical tests. Diseases of esophagus. Peptic ulcer - gastritis. Bleeding of peptic system.
4. Peptic System: Jaundice. Viral hepatitis. Biliary Diseases. Diseases of the pancreas. Hepatic insufficiency. Cirrhosis, ascites collection.
5. Peptic system: Gastroenteritis. Inflammatory bowel diseases. Malabsorption syndrome. Diarrhea. Constipation. Cancer of digestive
6. Respiratory System: Elements of Physiology. Functional Testing. Paraclinical tests. Clinical presentations of respiratory diseases.
7. Respiratory System: Bronchiectasis. Bronchitis. Chronic obstructive pulmonary disease, emphysema, bronchial asthma
8. Respiratory System: Pulmonary embolism. Pleural effusion, pneumothorax.
9. Respiratory System: Infections of Upper-Lower Respiratory System
10. Endocrine System: Structure and action of hormones. Syndromes of hyperfunction and hypofunction of pituitary. Diabetes Mellitus.
11. Endocrine System: Diseases of the thyroid gland and parathyroid. Reproductive system. Diseases of the adrenal.
12. Immune System: Elements of physiology. Autoimmune diseases, immunodeficiencies, allergic reactions. Systemic Lupus Erythematosus.
13. Immune System: Rheumatoid Arthritis and other arthropathies. Vasculitis. Rheumatic fever.

Tutorial part

Activities:

- Taking of history of pathological patient
- Physical examination by systems
- Monitoring of the progress and update of patient care sheet
- Active participation and gaining of experience in blood sampling and venipuncture.
- Monitoring and provision of nursing care in the performance of interventional and diagnostic techniques ((bladder catheterization, puncture thoracic, lumbar puncture, ECG)
- Participation in visiting patients in wards

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In class (face to face)
Information technology and telecommunications equipment	Support of the learning process through the electronic platform e-class
Students Assessment	***Teaching activities*** / ***Hours Workload***
	Lectures: 52
	Clinical practice: 13
	Autonomous Study: 115

	Total contact hours and training	180 Hours (6 ECTS)
STUDENTS EVALUATION	Final written exam (70%) containing multiple choice questions and questions of short answers in Greek language. Clinical examination of patient: 30%	

RECOMMENDED READING
1. Runge M., Greganti M.A. Netter Παθολογία 1η έκδοση. Broken Hill Publishers LTD, 2011. 2. Classen Meinhard, Diehl Volker, Koch Karl–Martin. Διαφορική Διαγνωστική στην Εσωτερική Παθολογία. Broken Hill Publishers LTD, 2004. 3. Bickley Lynn S., Szilagyi Peter G. Bates' Οδηγός για την κλινική εξέταση και τη λήψη ιστορικού. 1η έκδοση. Broken Hill Publishers LTD, 2006. 4. Haist S., Robbins J. Εσωτερική Παθολογία "On Call". Broken Hill Publishers LTD, 2009. 5. ΔΕΠ Τομέα Παθολογίας Πανεπιστημίου Αθηνών. Εσωτερική Παθολογία 2η έκδοση. Broken Hill Publishers LTD, 2010.

MEDICAL NURSING I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO026**	**SEMESTER**	**4th**
COURSE TITLE	**MEDICAL NURSING I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**5**	**7**
COURSE TYPE:	Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	No		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes
Expected Learning Outcomes
The aim of the course is the provision of theoretical and clinical knowledge regarding the development and implementation, through the Nursing Process, of an individualized nursing care plan of adult patients with acute and chronic health problems in the internal care ward. Upon completion of this module, student should be able to: • identify the basic concept of quality nursing care to adults with acute and chronic health problems in the internal care ward

- assess patients' care needs
- develop and implement individualized nursing care plan for patients with acute and chronic health problems in the internal care ward
- review the individualized nursing care plan for patients with acute and chronic health problems in the internal care ward according to outcomes

General abilities
• Retrieve, analyze and synthesize data and information • Decision-making process • Independent work • Teamwork • Promotion of free, creative and inductive thinking • Generating new research ideas • Work in an interdisciplinary context • Critical thinking

COURSE CONTENTS
Theoretical Part Nursing care of patients with: 1. Pain 2. Water and electrolytic disorders 3. Infection 4. Cancer 5. Immune system function disorders 6. HIV infection – AIDS 7. Skin disorders 8. Endocrinal disorders 9. Diabetes Melitus 10. Nutrition disorders 11. Gastrointestinal system disorders 12. Liver and Pancreas disorders 13. Bowel function disorders **Clinical Placement** Clinical placement to Internal Medicine inpatients and outpatients departments.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face). Clinical placement to Internal Medicine inpatients and outpatients departments.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class

Students Assessment	Teaching Activities	Hours workload
	Lectures	26
	Clinical placement	39
	Written case study	26
	Study and literature review	84
	Total contact hours and training	175 Hours (7 ECTS)
STUDENTS EVALUATION	I. Final written examination (75%) including: multiple choices questions, case study analysis, short open ended questions. II. Written case study of clinical placement (25%)	

RECOMMENDED READING
1. Lemone P., Burke K.M., Bauldoff G. Παθολογική-Χειρουργική Νοσηλευτική Κριτική Σκέψη κατά τη Φροντίδα του Ασθενούς. Τόμος Α'. 5η Έκδοση. Λαγός Δημήτριος, Αθήνα, 2013 (in Greek). 2. Dewit S.C. Παθολογική χειρουργική νοσηλευτική. Τόμος 1. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2009 (in Greek).

SURGICAL NURSING I

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO028**	**SEMESTER**	**4th**
COURSE TITLE	**SURGICAL NURSING I**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Clinical Placement and Laboratory		**4**	**4**
COURSE TYPE:	Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	No		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes
Expected Learning Outcomes

The aim of this course is to introduce the Surgical Nursing science to the undergraduate students, in order to offer them the basic scientific theoretical and clinical knowledge for the diagnosis of the patient's health problems and their treatment options, achieving perioperatively a high level of quality nursing care, by developing fundamental nursing techniques and skills, necessary for the everyday practice.

Upon completion of this module, student should be able to:

- identify the basic concept and nursing roles for a quality nursing care to adults with surgical health problems
- assess patients' care needs
- develop and implement individualized nursing care plan for patients with surgical health problems
- review the individualized nursing care plan for patients with surgical health problems according to outcomes

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Work in an interdisciplinary context
- Critical thinking
- Promotion of free, creative and inductive thinking

COURSE CONTENTS

Theoretical Part

1. Introduction in Surgical Nursing
2. History of Surgical Nursing
3. Preoperative care of patient
4. Postoperative admission to a surgical department
5. Postoperative care of patient
6. Management of pain, nausea, vomiting
7. Surgical injury– wound dressing and drainage
8. Surgical infections
9. Nursing care of patient with gastrointestinal disorders
10. Nursing care of patient with neurological disorders
11. Nursing care of patient with urological disorders
12. Nursing care of patient with trauma
13. Nursing care of patients with burn

Clinical placement

Clinical placement to surgery, surgical inpatients and outpatients departments and acute care department.

Laboratory

Application of knowledge regarding nursing surgical technics

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face). Clinical placement to surgery, surgical inpatients and outpatients departments and acute care department.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures / 26 Clinical placement / 13 Laboratory / 13 Study and literature review / 48 **Total contact hours and training** / 100 Hours (4 ECTS)
STUDENTS EVALUATION	Final written examination (100%) including multiple choices questions, case study analysis, short open ended questions.

RECOMMENDED READING

1. Lemone P., Burke K.M., Bauldoff G. Παθολογική-Χειρουργική Νοσηλευτική Κριτική Σκέψη κατά τη Φροντίδα του Ασθενούς. Τόμος Α'. 5η Έκδοση. Λαγός Δημήτριος, Αθήνα, 2013 (in Greek).
2. Dewit S.C. Παθολογική χειρουργική νοσηλευτική. Τόμος 1. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2009 (in Greek).
3. Osborn K.S., Wraa C.E., Watson A. Παθολογική Χειρουργική Νοσηλευτική Ι. Τόμος 1. 1η Έκδοση, BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011 (in Greek).

SURGERY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO075**	**SEMESTER**	**4th**
COURSE TITLE	**SURGERY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and clinical practice		**5**	**5**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING AND EXAMINATIONS LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning outcomes

The aim of the course is to gain knowledge on the approximation of the surgical patient, focusing on epidemiology, etiology, surgical pathology and semiology. The aim of clinical practice is learning and implementing methods of clinical evaluation of the patient and the familiarity with the methods of diagnosis and interventional techniques focusing the use of new technologies.

After successful completion of this course, the student will be able to:

- describe and evaluate the diagnostic procedure, differential diagnosis and individualized treatment approach,
- evaluate and to document the subjective and objective data related to the diagnosis and care plan of the surgical patient
- develop clinical skills in providing health care
- apply the theoretical knowledge gained so far, in the design and implementation of nursing care being aware of the nosology,
- judge clinical decision-making in health care provision and be able to suggest care plan oriented to patient and disease, incorporating the principles of morality and ethics and,
- Identify and analyze issues related to research, evidence based practice and the improvement of the quality of provided nursing care.

General abilities

- Search, analysis and synthesis of data and information using essential technologies
- Adaptation to new situations
- Decision-making
- Independent work
- Teamwork
- Respect to diversity and multiculturalism
- Work in international environment
- Production of new research ideas

COURSE CONTENTS

1. Surgical diseases of esophagus
2. Surgical diseases of stomach
3. Surgical diseases duodenum
4. Surgery of Small intestine diseases
5. Surgical diseases of Colon
6. Surgical diseases of anus
7. Surgical diseases liver - biliary
8. Surgical diseases Pancreas
9. Trauma and Pathophysiology of Healing
10. Surgical Infections
11. Surgical Oncology
12. Breast diseases
13. Surgery endocrine glands

Tutorial part

Activities:

- Familiarity with the daily activities of the Surgical Clinic
- History taking
- Physical examination
- Familiarity with emergency surgical cases (Emergency Department)
- Prioritisation of tests
- Monitoring of surgical operations of various severities

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In class (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support of the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>52</td></tr>
<tr><td>Clinical practice</td><td>13</td></tr>
<tr><td>Autonomous study</td><td>60</td></tr>
<tr><td>Total contact hours and training</td><td>125 Hours (5 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written examinations (100%) containing multiple choice questions and questions of short answers</td></tr>
</table>

RECOMMENDED READING
1. Cameron John L. Σύγχρονη Χειρουργική Θεραπευτική. Broken Hill Publishers LTD, 2011 (in Greek). 2. Σέχας Μ. Ν. Χειρουργική 1η έκδοση. Broken Hill Publishers LTD, 1996 (in Greek). 3. Μπονάτσος Γ., Γολεμάτης Β. Χειρουργική Παθολογία 4η έκδοση. Broken Hill Publishers LTD, 2005 (in Greek).

PHARMACOLOGY II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO077**	**SEMESTER**	**4th**
COURSE TITLE	**PHARMACOLOGY II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures		**3**	**3**
COURSE TYPE:		Basic Infrastructure – Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes
The aim of the course is teaching the general principles of pharmacokinetics and pharmacodynamics, therapeutics, prescriptive medicine focusing on the nursing responsibility and intervention. What follows is the presentation of pharmaceutical substances into groups, analyzing their action, their therapeutic use, the undesirable effects and the interaction with other drugs. After successful completion of this course, the student will be able to: • be familiar with the basic principles of pharmacokinetics and pharmacodynamics • be aware of the action, absorption, distribution and excretion of drugs for each system of the human body • know the therapeutic and adverse effects of the drugs and their interactions with other drugs. • understand how drugs are prescribed.

General abilities

- Critical thinking
- Finding and processing information
- Decision-making process
- Promotion of free, creative and inductive thinking
- Generating new research ideas

COURSE CONTENTS

- Drugs and Central Nervous System I: drugs for Parkinson's disease, stimulant drugs.
- Drugs and Central Nervous System II: anxiolytics and hypnotics, antidepressants and neuroleptics.
- Drugs and Central Nervous System III: anasthetics, antiepileptics, opioid analgesics.
- Drugs and musculoskeletal system: anti-inflammatory.
- Drugs and Autonomic Nervous System I: Cholinergic agonists and antagonists.
- Drugs and Autonomic Nervous System I: Anrenergic agonists and antagonists.
- Drugs affecting the cardiovascular System I: antiarrhythmics, antianginal.
- Drugs affecting the cardiovascular System II: antihypertensive.
- Drugs and Hematopoietic System.
- Antihyperlipidemic drugs. Antihistamine drugs.
- Gastrointestinal drugs and antiemetic drugs.
- Poisoning and Antidotes.
- Drugs affecting the eye.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures / 39 Study and literature review / 51 **Total contact hours and training** / 90 Hours (3 ECTS)
STUDENTS EVALUATION	Final written exam (85%) containing Multiple choice questions and questions of short answers or essay writing.

RECOMMENDED READING

1) Φαρμακολογία, Rang, Dale, Ritter, Moore. Έκδοση 7η, 2014. Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εταιρεία Επιστημονικών Βιβλίων (in Greek)
2) Νοσηλευτική Φαρμακολογία, Simonsen T, Kay I, Aarbakke J. Broken Hill Publishers LTD (in Greek)
3) Φαρμακολογία, Page Chive, Sutter M, Walker M, Hoffman B. Broken Hill Publishers LTD (in Greek)

4) Φαρμακολογία, Harvey RA, Champe PC. Έκδοση 3η, 2007. Παρισιάνου Ανώνυμη Εκδοτική Εισαγωγική Εταιρεία Επιστημονικών Βιβλίων (in Greek).

COMMUNITY NURSING II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO078**	**SEMESTER**	**4th**
COURSE TITLE	**COMMUNITY NURSING II**		
TEACHING ACTIVITIES	**HOURS PER WEEK**	**ECTS**	
Lectures and Tutorial (exercises, case studies, use of the Greek Statistics data base, Eurostat, Ministry of Health, KEELPNO, relative European and International agencies etc). Practice in sectors of Primary Health Care (PHC)	**4**	**5**	
COURSE TYPE:	Of Specific Background (Compulsory)		
PREREQUISITES:	COMMUNITY NURSING I		
TEACHING LANGUAGE:	Greek (Possibility in English, as well)		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes

Expected Learning Outcomes

The course aims at sensibility and understanding the theory of development of nursing care in the community of groups with health problems. Effective and exemplary encounter of complex problems in Community Nursing especially in Services of House Nursing, in Units of short Nursing and in Nursing of patients with chronic diseases and special needs (cardio-respiratory diseases, diabetes, cancer, AIDS, elderly health problems, problems of mental health).

When students have completed the course will be able to:
Evaluate and be sensitive in special health and illness needs assessment of the population in the Community, in its health promotion and in provision of holistic nursing services, in Primary Health Care settings, mostly home care, in preventing health problems, promoting its health level in each age group, and in each special group giving third level health services and covering rehabilitation services in any Community sector to chronicle patients (for ex. Elderly) or to people facing permanent changes in their health and life style (after an accident, chronic disease etc).

General abilities

When students have completed their course will be able to:

- promote health of special population in the Community
- offer health education services in general, and of special groups, population
- offer home care services in healthy and ill population or at rehabilitation settings
- evaluate the application of theories and nursing designs of community nursing (mostly that of home nursing and family nursing) in their workplace
- assess, predict and contribute to management of Public health Community problems, wherever they work
- assess and archive epidemiological profile of community population, taking into consideration environment and life conditions
- measure the quality of nursing care services and health level of community special population
- act in multi-disciplinary team work climate being responsible and autonomous of nursing actions at national, European and international level

COURSE CONTENTS

Theoretical Part

Theoretical part

- Theories of nursing care to community groups with health problems
- Special health needs of community population
- Recognition of health needs of a person, a family of programming and provision of community nursing care complex services in Emergency units, in Home care services and in chronicle patients with special needs services.
- Roles and activities of nurses. Communication as Nursing intervention in Care of chronicle patients
- Home nursing
- Family Nursing
- Methodology of Health Education in special groups of home patients with problems of hearing, vision and restricted mobility
- Elderly with health problems in the Community – Home nursing
- Patients with cardiology and respiratory diseases
- Patients with Mellitus diabetes
- Patients with cancer
- Patients with AIDS
- Patients with problems of mental health

Practice of students

Identification of health needs of community groups during visiting Home Nursing services, units of emergency services and care services of chronicle patients, where students gather infos based on family history plan for home care services and they present their results in the classroom. Trying in having a real perception of services given to the Community in terms of inter- disciplinary home care services existing in the Community.

Founding Community Nursing's laboratory will allow the upgrade of practice and work of students as it will ease daily operation and achievement of educational aims in under (and post) graduate level, in order to organize and start working following special units of: Public health, occupational health, Environmental health, primary Health Care, management of health services systems in the Community, Bioethics and Deontology in the Community, Health promotion and care in Home, School nursing (special education and classical), Studying of special groups of population- Transcultural nursing, Studying of diseases and caring of health needs of Community populations(for ex. Children- teenagers, workers, elderly etc).

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>• Use of the E/C, slide projector, websites relative to the courses, of Greek Service's data base of Governmental and non-governmental agencies, of European, international relative websites etc
• E-class
• Web-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Tutoring Lab's Content practice in small groups in PHC settings, home visits, or activities in co-operation with local, regional, national social, cultural and productive bodies</td><td>26</td></tr>
<tr><td>Study and literature review and written project</td><td>48</td></tr>
<tr><td>Total contact hours and training</td><td>100 Hours (4 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Written exams (70%)
Team compulsory oral assignment (30%)</td></tr>
</table>

RECOMMENDED READING

1. Community Nursing- Public health nursing, Nies,Mc Ewen
2. Community Nursing, Stanhope Marsia,Lancaster Jeanette

5th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
7.	CO025	INTERNAL MEDICINE II	CO	4			2	6	78	YES	7
8.	CO031	MEDICAL NURSING II	CO	2			3	5	65	YES	7
9.	CO032	SURGICAL NURSING II	CO	2	1		2	5	65	YES	6
10.	CO079	INTRODUCTION TO PSYCHIATRY	CO	3		1		4	52	ELECTIVE	4
11.		ELECTIVE COURSE *	EL					3	39		3
12.		ELECTIVE COURSE*	EL					3	39		3
		TOTAL						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 2)											
8.	EL 080	ONCOLOGY NURSING	EL	2		1		3	39	NO	3
9.	EL 028	TRANSCULTURAL NURSING	EL	1	2			3	39	YES	3
10.	EL081	NURSING OF MATERINTY AND OF GYNECOLOGY	EL	2			1	3	39	NO	3
11.	EL082	NUTRITION AND SPECIAL DIETS	EL	2		1		3	39	YES	3
12.	EL060	COMMUNICATIONS SCILLS	EL	2		1		3	39	ELECTIVE	3
13.	EL019	ANAESTHESIA NURSING	EL	2			1	3	39	NO	3
14.	EL017	HOSPITAL INFORMATION SYSTEMS	EL	2	1			3	39	YES	3
*** Students can choose Clinical Placement which equals with two elective courses**											
		CLINICAL PLACEMENT	EL								6

INTERNAL MEDICINE II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO025**	**SEMESTER**	**5th**
COURSE TITLE	**INTERNAL MEDICINE II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and clinical practice		**6**	**7**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING AND EXAMINATIONS LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes

The aim of the course is to gain knowledge of specific nosology as well as to learn and apply methods of clinical assessment of the patient and of therapeutic process. The purpose of clinical practice is the practice in physical examination of the patient and to gain experience in performing interventional techniques.

After successful completion of this course, the student will be able to:

- describe and evaluate the diagnostic procedure, differential diagnosis and individualized treatment approach,
- evaluate and to document the subjective and objective data related to the diagnosis and care plan of the pathological patient,
- develop clinical skills in providing health care,
- apply the theoretical knowledge gained so far, in the design and implementation of nursing care being aware of the nosology,
- judge clinical decision-making in health care provision and be able to suggest care plan oriented to patient and disease, incorporating the principles of morality and ethics and,
- identify and analyze issues related to research, evidence based practice and the improvement of the quality of provided nursing care.

General abilities

- Search, analysis and synthesis of data and information using essential technologies
- Adaptation to new situations
- Decision-making
- Independent work
- Teamwork
- Respect to diversity and multiculturalism

- Work in international environment
- Production of new research ideas

COURSE CONTENTS

1. Infectious diseases: Staphylococcal and streptococcal infections, pneumonia, tuberculosis, endocarditis
2. Infectious Diseases: Viral Infections, Zoonoses, HIV infection and sexually transmitted diseases, infestations. Hospital infections. Infections of immunodeficient. Prevention
3. Nervous System: stroke, seizure disorder, Parkinson's disease and other movement disorders
4. Nervous System: Semiology of Central Nervous System. Infections of the Central Nervous System
5. Nervous System: dementia, multiple sclerosis and other demyelinating diseases, neuromuscular disorders, Coma, Headache, Vertigo
6. Circulatory System: Clinical examination and clinical tests. Main symptoms and signs. Congenital heart diseases. Valvular diseases.
7. Circulatory System: Endocarditis, Pericarditis. Myocarditis. Arrhythmias.
8. Cardiovascular System: Coronary syndromes. Myocardial infarction. Hypertension. Heart failure.
9. Hematopoietic System: Hematopoietic organs. Blood cells. Erythroid disorders. Disorders of white range.
10. Hematopoietic System: Disorders thrombocytes. Coagulation disorders..
11. Lymphadenopathy-Splenomegaly. Bone marrow transplantation
12. Urinary System: Main symptoms and signs. Urinary tract infections, glomerulonephritis. Urination disorders. Nephrolithiasis.
13. Urinary System: Acute and chronic renal failure. Dialysis.
14. Acid-base balance

Tutorial part

Activities:

- Taking of history of pathological patient
- Physical examination by systems
- Monitoring of the progress and update of patient care sheet
- Active participation and gaining of experience in blood sampling and venipuncture.
- Monitoring and provision of nursing care in the performance of interventional and diagnostic techniques ((bladder catheterization, puncture thoracic, lumbar puncture, ECG)
- Participation in visiting patients in wards

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	In class (face to face)	
Information technology and telecommunications equipment	Support of the learning process through the electronic platform e-class	
STUDENTS ASSESSMENT	**Teaching activities**	**Hours workload**
	Lectures	52
	Clinical Practice	26

	Written work	20
	Autonomous study	77
	Total contact hours and training	175 Hours (7 ECTS)
STUDENTS EVALUATION	Final written exam (60%) containing multiple choice questions and questions of short answers in Greek language Clinical examination of patient: 25% Written work: 15%	

RECOMMENDED READING

1. Runge M., Greganti M.A. Netter Παθολογία 1η έκδοση. Broken Hill Publishers LTD, 2011 (in Greek).
2. Classen Meinhard, Diehl Volker, Koch Karl–Martin. Διαφορική Διαγνωστική στην Εσωτερική Παθολογία. Broken Hill Publishers LTD, 2004 (in Greek).
3. Bickley Lynn S., Szilagyi Peter G. Bates' Οδηγός για την κλινική εξέταση και τη λήψη ιστορικού. 1η έκδοση. Broken Hill Publishers LTD, 2006 (in Greek).
4. Haist S., Robbins J. Εσωτερική Παθολογία "On Call". Broken Hill Publishers LTD, 2009(in Greek).
5. ΔΕΠ Τομέα Παθολογίας Πανεπιστημίου Αθηνών. Εσωτερική Παθολογία 2η έκδοση. Broken Hill Publishers LTD, 2010(in Greek).

MEDICAL NURSING II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO031**	**SEMESTER**	**5th**
COURSE TITLE	**MEDICAL NURSING II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**5**	**7**
COURSE TYPE:		Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes

The aim of the course is the provision of theoretical and clinical knowledge regarding the development and implementation, through the Nursing Process, of an individualized nursing care plan of adult patients with acute and chronic health problems in the internal care ward.

Upon completion of this module, student should be able to:

- identify the basic concept of quality nursing care to adults with acute and chronic health problems in the internal care ward
- assess patients' care needs
- develop and implement individualized nursing care plan for patients with acute and chronic health problems in the internal care ward
- review the individualized nursing care plan for patients with acute and chronic health problems in the internal care ward according to outcomes

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Generating new research ideas
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Theoretical Part

Nursing care of patients with:

1. Urinary system disorders/ Acute renal failure
2. Chronic renal failure
3. Cardiovascular system disorders
4. Coronary artery disease
5. Hematological disorders
6. Bone narrow transplantation
7. Respiratory disorders
8. Oxygenation disorders
9. Musculoskeletal system disorders
10. Neurological system disorders/ Stroke
11. Vision and Hearing disorders
12. Male and female reproductive system disorders
13. Nursing care of patients in grief and death experience

Clinical Placement

Clinical placement at Internal Medicine inpatients and outpatients departments.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face). Clinical placement to Internal Medicine inpatients and outpatients departments.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures / 26 Clinical placement / 39 Written case study / 26 Study and literature review / 84 **Total contact hours and training** / 175 Hours (7 ECTS)
STUDENTS EVALUATION	I. Final written examination (75%) including: multiple choices questions, case study analysis, short open ended questions. II. Written case study of clinical placement (25%)

RECOMMENDED READING
1. Lemone P., Burke K.M., Bauldoff G. Παθολογική-Χειρουργική Νοσηλευτική Κριτική Σκέψη κατά τη Φροντίδα του Ασθενούς. Τόμος Β'. 5η Έκδοση. Λαγός Δημήτριος, Αθήνα, 2013 (in Greek). 2. Dewit S.C. Παθολογική χειρουργική νοσηλευτική. Τόμος 2. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2009 (in Greek).

SURGICAL NURSING II

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO032**	**SEMESTER**	**5th**
COURSE TITLE	**SURGICAL NURSING II**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Clinical Placement and Laboratory		**5**	**6**
COURSE TYPE:	Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	No		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes

Expected Learning Outcomes

The aim of this course is to offer the undergraduate students the advanced scientific knowledge (theoretical and clinical) for assessment, nursing diagnosis, planning and implementation of nursing care achieving perioperatively a high level of quality nursing care, by developing fundamental nursing techniques and skills, necessary for the everyday practice.

Upon completion of this module, student should be able to:

- identify the basic concept of quality nursing care and nursing roles for adults with surgical health problems
- assess patients' pre-, peri- and postoperative care needs
- develop and implement individualized nursing care plan for patients with surgical health problems
- review the individualized nursing care plan for patients with surgical health problems according to outcomes

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Work in an interdisciplinary context
- Critical thinking
- Promotion of free, creative and inductive thinking

COURSE CONTENTS

Theoretical Part

- Nursing care of surgical injury I
- Nursing care of surgical injury II
- Nursing care of patient with stoma – drainage
- Nutrition of patient undergoing surgery
- Nursing care of patient with musculoskeletal disorders I
- Nursing care of patient with musculoskeletal disorders II
- Nursing care of patient with gynecological – obstetrics disorders
- Nursing care of patient with cardiovascular disorders
- Nursing care of patient undergoing cardiovascular surgery
- Nursing care of patient with head and neck disorders
- Nursing care of elderly patient
- Surgical nursing care during mass disasters
- Ethical dilemmas in Surgical Nursing

Clinical placement

Clinical placement to surgery, surgical inpatients and outpatients departments and acute care department.

Laboratory

Application of knowledge regarding nursing surgical techniques

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face). Clinical placement to Internal Medicine inpatients and outpatients departments.</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Clinical placement</td><td>26</td></tr>
<tr><td>Laboratory</td><td>13</td></tr>
<tr><td>Written case study</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>72</td></tr>
<tr><td>Total contact hours and training</td><td>150 Hours (6 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>I. Final written examination (90%) including: multiple choices questions, case study analysis, short open ended questions.

II. Written case study of clinical placement (10%)</td></tr>
</table>

RECOMMENDED READING

1. Lemone P., Burke K.M., Bauldoff G. Παθολογική-Χειρουργική Νοσηλευτική Κριτική Σκέψη κατά τη Φροντίδα του Ασθενούς. Τόμος Β'. 5η Έκδοση. Λαγός Δημήτριος, Αθήνα, 2013 (in Greek).
2. Dewit S.C. Παθολογική χειρουργική νοσηλευτική. Τόμος 2. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2009 (in Greek).
3. Osborn K.S., Wraa C.E., Watson A. Παθολογική Χειρουργική Νοσηλευτική ΙΙ Τόμος 2. 1η Έκδοση, BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011 (in Greek).
4. Woodhead K., Wicker P. Περιεγχειρητική Νοσηλευτική Φροντίδα. 1η Έκδοση. Λαγός Δημήτριος, Αθήνα, 2007 (in Greek).

INTRODUCTION TO PSYCHIATRY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**C0079**	**SEMESTER**	**5th**
COURSE TITLE	**Introduction to Psychiatry**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**4**
COURSE TYPE:		Speciality course. Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/ courses/NRS232	

Learning Outcomes

Expected Learning Outcomes

The course provides the introduction to psychiatric disorders.

The students learn to

- identify the various psychiatric symptoms
- discuss treatment modalities.
- understand psychiatric principles
- how to care for such patients
- be able to work in such nursing environments

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas
- Promotion of social moral and professional responsibility and sensitivity

COURSE CONTENTS

Theoretical Part

1. Introduction – Historical Evolution
2. Psychiatric interview – Symptoms and signs,
3. Schizophrenia and related disorders
4. Affective disorders
5. Personality and its disorders,
6. Obsessions and Compulsive disorders
7. Reactions to stressful experiences
8. Organic psychiatric disorders
9. Suicide and deliberate self harm
10. The abuse of alcohol and drugs,
11. Psychiatry and medicine
12. Psychiatric aspects of obstetrics
13. Psychiatry and the elderly

Tutorial part

Tutorial exercises for the discussion of patients' histories and essays presentations

Practice of students in the search and evaluation of data in international bases of data (MEDLINE, PubMed, Cochrane Library).

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>39</td></tr>
<tr><td>Tutoring Lab's Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>48</td></tr>
<tr><td>Total contact hours and training</td><td>100 Hours (4 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Written final exam: 100%
Short answer questions
Open presentation of optional essays (in such case written exam accounts for 80% and essay for 20%).</td></tr>
</table>

RECOMMENDED READING

1. Oxfords's Psychiatry., Gelder Michael G.,Lopez Ibor Juan Jose,Andreasen Nancy C. Paschalides Athens.
2. Introduction to Psychiatry, N.C. ANDREASEN, D.W. BLACK. Parisianou Athens.

ONCOLOGY NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL080**	**SEMESTER**	**5th**
COURSE TITLE	**ONCOLOGY NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Seminars		**3**	**3**
COURSE TYPE:		Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim is the development of students' ability to recognize and implement effective nursing interventions through an individualized nursing care plan to manage multidimensional problems of patients and families due to cancer and its therapy.

Upon completion of this module, student should be able to:

- identify the basic concept and nursing roles through the journey of cancer patients from diagnosis to death
- assess cancer patients' and their families' physical, social, psychological and spiritual needs of care through journey of the disease and the end of life
- describe the antineoplasmatic therapies
- develop and implement individualized nursing care plan for cancer patients

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Theoretical Part

1. The problem of Cancer. Patients', families', and health care professionals' attitudes, believes

and myths about cancer and its treatment. Multidisciplinary approach.
2. The nursing roles in primary and secondary prevention of malignancy neoplasias.
3. The phase of diagnosis. The Disease staging and the treatment planning. The patient and family information, preparation and support during the announcement of the diagnosis of cancer.
4. The holistic nursing care of cancer patients undergoing surgery
5. The holistic nursing care of cancer patients undergoing chemotherapy – targeted therapy
6. The holistic nursing care of cancer patients undergoing radiotherapy – hormone therapy
7. The management of more significant physical symptoms of cancer patients. Management of emergency problems.
8. The management of more significant psychosocial and spiritual problems of cancer patients.
9. The nursing therapeutic approach of cancer patients and their families.
10. The special needs of certain cancer populations (elderly, minorities)
11. The rehabilitation of patients with malignant neoplasias. The long-term effects of antineoplasmatic treatment. The supportive needs of survivors and family.
12. The nursing roles in cancer clinical trials.
13. The quality improvement in oncology. The oncology clinical guidelines and standards.

Seminars

Interactive teaching, reflective practice, case studies of patients with cancer. The students work individually or at small groups according to seminar content. At the end of each seminar responses will be presented.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face).
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures: 26 Seminars: 13 Study and literature review: 36 **Total contact hours and training**: 75 Hours (3 ECTS)
STUDENTS EVALUATION	Final written examination (100%) including: multiple choices questions, case study analysis, short open ended questions.

RECOMMENDED READING

1. Corner J., Bailey Ch. Νοσηλευτική ογκολογία. Το πλαίσιο της φροντίδας. 1η έκδοση. Broken Hill Publishers LTD, Αθήνα, 2006. (in Greek).

TRANSCULTURAL NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL028**	**SEMESTER**	**5th**
COURSE TITLE	**TRANSCULTURAL NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial (exercises, case studies, use of the Greek data base of Ministry of Health, KEELPNO, relative European and International agencies etc) Practice in sectors of Primary Health Care (PHC) for immigrants, refugees etc		**3**	**3**
COURSE TYPE:		Of Specific Background (OPTIONAL)	
PREREQUISITES:		COMMUNITY NURSING I	
TEACHING LANGUAGE:		Greek (Possibility in English, as well)	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of this course is for students to acquire thorough scientific knowledge on Transcultural Nursing, nursing and abilities that will contribute to the comprehension and the acquisition of sufficiency of different health-care systems, where patients that are hospitalized come from different cultures.

When students have completed the course will be able to:
Evaluate and be sensitive in assessment of different cultural characteristics and needs of the population in the Community, in health promotion and in provision of holistic, equal, nursing services, in Primary Health Care settings, in outside hospital environment, in preventing health problems, promoting its health level in each age group with its unique culture, values, norms, behavior, religious beliefs and in each community setting (for ex. School, Workplace, home etc) following national, European and international laws and respecting human dignity

General abilities

When students have completed their course will be able to:

- promote health population in the Community
- offer health education in general, and of special groups, population with special anthropological and cultural characteristics (immigrants, refugees etc)
- offer care services in healthy and ill population without discrimination
- evaluate the application of theories and nursing designs of transcultural nursing in their workplace
- assess, predict and contribute to management of Public health issues of moving population, wherever they work
- assess and archive epidemiological profile of community population, taking into consideration environment and life conditions, based on its multi- cultural elements
- measure the quality of nursing care services and health level of community cultural population
- act in multi-disciplinary team work climate being responsible and autonomous of nursing actions at national, European and international level .

COURSE CONTENTS
Theoretical Part - Introduction in Transcultural Nursing - Definitions - Theories of transcultural nursing - Theory of Transcultural nursing of Leininger (1995) - Theory of safety of Ramsden (1995) - Theory of cultural sensitivity of Telabere (1995) - Theory of of cultural ability of Cammpinha Bacote (1994) - Transcultural approach of community health - Roles and activities of nurses in health services of migrants and refugees - Politics in European Union and influences on health care systems of traditional and western type, on laws and on national regulations and on ordinary life of a European citizen - Special services of Primary Health Care of migrants and refugees in Greece - Laws on Transcultural Nursing - Methodology PBL in special cultural issues of health care in all age groups ***Practice of students- laboratory*** Report in different methodological case studies an d examples relative to the course's subject. Assignment to student of, either a) person, compulsory written (simple literature review) after guidelines given on this research method, either, b) team, compulsory, written (qualitative research), after visiting PHC setting for immigrants etc in the Community. Founding Community Nursing's laboratory will allow the upgrade of practice and work of students as it will ease daily operation and achievement of educational aims in under (and post) graduate level, in order to organize and start working following special units of: Public health, occupational health, Environmental health, primary Health Care, management of health services systems in the Community, Bioethics and Deontology in the Community, Health promotion and care in Home, School nursing (special education and classical), Studying of special groups of population- Transcultural nursing, Studying of diseases and caring of health needs of Community populations(for ex. Children- teenagers, workers, elderly etc).

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and	• Use of the E/C, slide projector, websites

<table>
<tr><td>telecommunications equipment</td><td>relative to the courses, of Greek statistics Service's data base, of Eurostat Greek Red Cross, other relative bodies, etc
• E-class
• Web-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><td>Teaching Activities</td><td>Hours workload</td></tr>
<tr><td>Lectures</td><td>13</td></tr>
<tr><td>Tutoring Lab's Content practice in small groups in PHC settings for moving population or activities in co-operation with local, regional, national social, cultural and productive bodies</td><td>26</td></tr>
<tr><td>Study and literature review and written project</td><td>36</td></tr>
<tr><td>Total contact hours and training</td><td>75 Hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Written exams (60%)
Compulsory (person or team) writing assignment (40%)</td></tr>
</table>

RECOMMENDED READING
1. Kalokairinou- Anagnostopoulou A et al (2009) "Transcultural nursing " Ed. Paschalides P.Ch. (In Greek) 2. Porkos M., Dafermos(2010) " Qualitative research in social sciences. Scientific, methodological and ethical aspects". M. Ed. MOTIVO AC, ED. TOPOS

NURSING OF MATERNITY AND OF GYNECOLOGY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL081**	**SEMESTER**	**5th**
COURSE TITLE	**NURSING OF MATERNITY AND OF GYNECOLOGY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and clinical practice		**3**	**3**
COURSE TYPE:		Of Specific Background (Optional)	

PREREQUISITES:	No
TEACHING LANGUAGE:	Greek
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes
URL:	https://eclass.uop.gr/courses/NRS...../

Learning Outcomes

The aim of Gynecology-Nursing of Maternity is to provide students with the basic knowledge of prevention, identification, recognition, diagnosis and treatment on female reproductive system health problems, as well as with knowledge regarding to the time interval of pregnancy, delivery and puerperium.

Completing the course successfully, students will be able to:

- Identify and recognize female reproductive system health problems
- Recognize women's needs during pregnancy, delivery and puerperium
- Identify the diagnosis and clinical examination of female reproductive system
- Identify the diagnosis and clinical examination of pregnant women
- Recognize the treatment of pregnant women's various health problems

General abilities

The course is designed to provide students with skills related to:

- Decision making
- Work in an international context
- Advance free, creative and causative thinking
- Work in a multidisciplinary environment
- Generation of new research ideas

COURSE CONTENTS

Lectures' Content

1) Taking history of women with reproductive system health problems (gynecological history)
2) Basic diseases of female reproductive system. Malignancies of female reproductive system
3) Nursing care of women with surgical health problems
4) Frequent problems regarding to menses
5) End of menses. Nursing care
6) Physical and emotional changes occurring to pregnant women
7) Follow-up of pregnant woman with clinical and laboratory exams
8) Preparing pregnant women for delivery and puerperium
9) Delivery (start, symptoms, stages)
10) Methods for manage pain of delivery
11) Cesarean
12) Neonatal initial clinical examination (Apgar score)
13) Nursing care and follow-up of neonate

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	Lectures & clinical practice
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	**Teaching Activities** / **Hours workload** Lectures: 26 hours Clinical practice: 13 hours Study and literature review: 36 hours **Total contact hours and training**: 75 Hours (3 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 100%) containing: • Multiple choice questions • Questions of critical thinking

RECOMMENDED READING
1) Κρεατσάς Γ. Σύγχρονη Μαιευτική και Γυναικολογία, Εκδόσεις Π.Χ Πασχαλίδης, Αθήνα, 1998 (in Greek). 2) Lowdermilk , Perry, Cashion. Νοσηλευτική Μητρότητας, Εκδόσεις Δ. Λαγός, Αθήνα, 2011 (in Greek).

NUTRITION AND SPECIAL DIETS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL082**	**SEMESTER**	**5th**
COURSE TITLE	**NUTRITION AND SPECIAL DIETS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures		**2**	**3**
Tutorial		**1**	
COURSE TYPE:		Of Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes
Expected Learning Outcomes

The purpose of this course is to provide knowledge of basic principles of nutrition, energy and nutrient requirements. It also aims the understanding of the principles of nutrition in different physiological and pathological conditions.

After successful completion of this course, the student will be able to:

- Understand the basic principles of nutrition, functions of digestion, absorption and metabolism of nutrients in the human body.
- Identify the nutritional needs of the body at different stages of life.
- Understand the nutritional therapeutic applications in the prevention and treatment of common diseases and disorders.
- Meet the dietary recommendations for health problems in different age groups.
- Recognize the signs and symptoms of dietary deficiency.
- Analyze and develop special diets for special situations.

General abilities

- Search for data organization and analysis with the use of essential technologies.
- Individual work.
- Group laboratory work.
- Respect the natural environment.
- Design and management of new research ideas and their application in nursing practice.
- Exercise criticism and self-criticism.

COURSE CONTENTS

Theoretical Part

1. Digestion: absorption, transportation and excretion of nutrients.
2. Energy requirements and factors determining them.
3. Carbohydrates, proteins, lipids, vitamins, minerals and water.
4. Nutrition in pregnancy and lactation.
5. Nutrition in childhood and adolescence.
6. Nutrition in adulthood and elderly.
7. Fundamentals of Clinical Nutrition (detection of nutritional risk assessment and patient).
8. Obesity in adulthood and Childhood Obesity.
9. Nutritional Care in Diabetes mellitus type I and type II.
10. Nutritional support in specific pathologies (cardiovascular disease, chronic renal disease, liver disease).
11. Nutritional support in specific pathologies (cachexia, eating disorders, anorexia).
12. Nutritional support in specific pathologies (critically ill patients).
13. Nutritional support in hospital settings.

Content tutorial part

1. Anthropometric measurements in adults and children.
2. Detection of the dietary risk and patient assessment.
3. Calculation of energy and nutritional needs.
4. Creating diet in normal situations.
5. Creating diet in specific pathological situations (case analysis)

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	Presentations with Power Point program Use of electronic databases for literature search and simulation of biological models	
Students Assessment	**Teaching Activities**	**Hours workload**
	Lectures with personal presentation	26
	Tutorial activities with physical presence 1. Tutoring 2 .Using electronic databases for literature search 3 .Presentation of	13 Of which : 7 3 3

	work by students and discussion		
	Study and analysis of books and articles (independent)	25	
	coursework (independent)	11	
	Total contact hours and training	75 Hours (3 ECTS)	
STUDENTS EVALUATION	1. The tutorial work counts for the 20% of the final grade. The delivery of reports is prerequisite to participate in the final written evaluation of the course. 2. An individual work is presented and evaluated orally and comprises 20% of the total grade. 3. The final exam is obligatory for all students, counting for 60% of the final grade.		

RECOMMENDED READING
1. Biesalski Hans - Konrad,Grimm Peter Εγχειρίδιο διατροφής, BROKEN HILL PUBLISHERS LTD, Αθήνα 2008 (in Greek). 2. Ζαμπέλας Α. Κλινική Διαιτολογία και Διατροφή με Στοιχεία Παθολογίας, BROKEN HILL PUBLISHERS LTD, Αθήνα 2007(in Greek).

COMMUNICATIONS SKILLS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF STUDIES	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL060**	**SEMESTER**	**5th**
COURSE TITLE	**COMMUNICATIONS SKILLS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:		Skills development - Optional	

PREREQUISITES:	No
TEACHING LANGUAGE:	Greek
COURSE CAN BE ATTENDED BY ERASMUS:	Yes
URL:	http://eclass.uop.gr/courses/

Learning outcomes

Expected Learning Outcomes

The course aims at:

- Acquiring the basic knowledge in community theory
- Understanding the concepts server and receiver, communication channels
- Examination of the concepts of verbal and nonverbal communication and body language
- Recognition of the value of quality of speech and humor in communication
- Appreciating the concept of trading in communication
- Examination the icon of the nurse through the communication theories
- Consideration of nurse communication with different age and social groups
- Strategies for successful communication with other health professionals

General abilities

- Appreciate diversity and multiculturalism
- Demonstration of social, professional and ethical responsibility and sensitivity to gender issues
- Advance free, creative and causative thinking
- Adapt to new situations
- Be critical and self-critical
- Teamwork
- Make decisions

COURSE CONTENTS

Theoretical Part

1. Basic concepts and principles in communication theory
2. The message in communication process
3. Server and receiver in communication process
4. Blocking and non-blocking in communication process
5. Initial consolidation of the structure of the therapeutic relationship
6. Taking a nursing history
7. Improving the nurse icon
8. The concept of trading
9. Verbal and non verbal messages, the body language

10. Speech communication
11. Communication and humor - Humor improves communication
12. Interpersonal Communication with people of different age
13. Communication among health care professionals

Tutorial Part

Tutorial exercises for the application of basic concepts and principles of the communication theory in the therapeutic relationship.

TEACHING AND LEARNING METHODS – ASSESSMENT		
Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	• Power point presentations (PPT) • Support of learning and teaching through the electronic platform e-class	
Students Assessment	Teaching Activities	Hours Workload
	Lectures	26
	Tutoring Lab's Content	13
	Study and literature review	36
	Total contact hours and training	75 Hours (3 ECTS)
STUDENTS ASSESSMENT	1. Final written exam (100%) containing multiple choice questions and/ or questions of short answers 2. Oral presentation (30%) and final written exam (70%) containing multiple choice questions and/ or questions of short answers.	

RECOMMENDED READING

1. Kennedy Sheldon, L. Communication for Nurses, PASCHALIDIS, Athens, 2010 (Eudoxus: 13256282) (in Greek)
2. Vederber, R., Verderber, K. Interpersonal Communication Skills, ELLIN, Athens, 2006 (Eudoxus:16239) (in Greek)
3. Tierney, E. 101 Ways to Better Communication, KRITIKI, Athens, 2002 (Eudoxus:11842) (in Greek)
4. Journal of Health Communication (Journal, in English)
5. Health Communication (Journal, in English)

ANAESTHESIA NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL019**	**SEMESTER**	**5th**
COURSE TITLE	**ANAESTHESIA NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**3**	**3**
COURSE TYPE:		Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The Aim of the course is to offer to the undergraduate students, the basic scientific knowledge in anaesthesia nursing, in order to be in position to practice, to be an equal member of the anaesthesiology scientific team and to be involved in all of the teams actions, including PACU, palliative care, and especially pain management.

Upon completion of this module, student should be able to:

- identify the basic concept of quality nursing care for patients in the OR and OR. PACU.
- identify nursing roles for the patients in the OR and OR. PACU.
- assess patients' care needs
- develop and implement individualized nursing care plan for patients in the OR and OR. PACU.

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Promotion of free, creative and inductive thinking
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Theoretical Part

1. History and Fundamentals of Anaesthesia Nursing
2. Anaesthesia machines. Anaesthesiology equipment and new technologies in anaesthesia nursing
3. Preoperative monitoring, evaluation of preoperative laboratory tests, nursing interview.
4. Peripheral central vein and arterial lines in the OR.
5. Basic principles on ventilation. Ventilation mask, ambu, LMA, ETT, MEMA
6. Full anesthesia monitoring
7. Preoperative sedation. Intravenous anaesthesia drugs. Perioperative and Postoperative analgesia.
8. Local anaesthetic agents and peripheral neural blockers. Regional anaesthesia.
9. CPR in the OR. PACU

Clinical Placement

Clinical placement to OR and OR. PACU

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face). Clinical placement .
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures / 26 Clinical placement / 13 Study and literature review / 36 **Total contact hours and training** / 75 Hours (3 ECTS)
STUDENTS EVALUATION	Final written examination (100%)

RECOMMENDED READING

1. Αναισθησιολογία, Φασουλάκη Αργυρώ, BROKEN HILL PUBLISHERS LTD, 2005 (in Greek).
2. Εισαγωγή στην Αναισθησιολογία, Κανιάρης Π.,Γερελουκά - Κωστοπαναγιώτου, BROKEN HILL PUBLISHERS LTD ,1993 (in Greek).

HOSPITAL INFORMATION SYSTEMS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL017**	**SEMESTER**	**5th**
COURSE TITLE	**HOSPITAL INFORMATION SYSTEMS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:			
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The course "Hospital Information Systems" concerns those students who interest in getting familiarized with the ICTs applications and benefits into the Health Care Sector. Special emphasis will be given to the clarification of particular concepts that are used to describe information systems in the field of health. The students who will attend this course will be able to use the related terms and make effective and essential contacts with the cooperated systems.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Within the context of this subject, emphasis will be placed on topics such as:

- Introduction to the Information Systems (Basic Concepts & Definitions)
- Information Systems for the Hospitals (HIS - Hospital Information Systems)
- Information Systems for Departments/Wards (CIS - Clinical Information Systems)
- Information Systems for Medical Laboratories (LIS – Laboratory Information Systems)
- Information Systems for Radiology Departments (RIS – Radiology Information Systems)
- Description of Software Development Phases (Software Lifecycle)
- Design and Analysis of Information Systems
- Classification of Medical Terms & Medical Information Coding Systems (ICD-9, ICD-10, SNOMED, ICPM, ICNP)
- Medical Data Bases
- Digital Imaging and Communications in Medicine (DICOM)
- Picture Archiving and Communication Systems (PACS)
- Security of Medical Images Transfer
- Healthcare Information Systems applied in Greece and other Countries

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Tutoring Lab’s Content</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>36</td></tr>
<tr><td>Total contact hours and training (13 hours workload / credit unit</td><td>75 Hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS ASSESSMENT</td><td>Final written exam (60%), Participation in Project Work (40%).</td></tr>
</table>

RECOMMENDED READING

1. Η Υγεία στην Ψηφιακή Εποχή: Πληροφοριακά Συστήματα Νοσοκομείων, Αθηνά Λαζακίδου, Κωδικός Βιβλίου στον Εύδοξο: 33153823, Έκδοση 1η/2013, ISBN: 978-960-92645-3-2(in Greek).
2. Πληροφοριακά συστήματα υγείας, Αποστολάκης Ιωάννης. Κωδικός Βιβλίου στον Εύδοξο: 22770884, Έκδοση 2η/2007, Εκδόσεις Παπαζήση, ISBN: 978-960-02-2091-9(in Greek).

6th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
8.	CO080	RESEARCH METHOLOGY	CO	2		2		4	52	YES	4
9.	CO081	ETHICS AND LAW IN HEALTH SCIENCES	CO	3				3	39	YES	4
10.	CO072	MENTAL HEALTH NURSING	CO	3			2	5	65	YES	7
11.	CO019	PREVENTIVE POLICIES AND PRACTICES	CO	3		1		4	52	NO	4
12.	CO082	NURSING THEORIES	CO	2		1		3	39	NO	3
13.	CO083	HEALTH ECONOMICS	CO	3		1		4	52	ELECTIVE	5
14.		ELECTIVE COURSE	EL					3	39		3
		TOTAL						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											
1	EL083	GENETICS	EL	2	1			3	39	YES/ELECTIVE	3
3	EL057	NURSING OF CARDIOVASCULAR DISEASES	EL	2			1	3	39	NO	3
4	EL020	HEALTH OF WORKPLACE	EL	2	1			3	39	NO	3

RESEARCH METHODOLOGY

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO080**	**SEMESTER**	**6th**
COURSE TITLE	**RESEARCH METHODOLOGY**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and tutorials		**4**	**4**
COURSE TYPE:		Of General Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes

The aim of this course is to bring students into contact with the research conducted in health sciences. During the course, students will learn about the types of research, how the pose research questions, how to organize a research, the research tools, data analysis and how to write scientific texts.

Completing the course successfully, students will be able to

- recognize the importance of research
- identify and distinguish research questions
- pose research questions
- seek for solutions for daily nursing problems
- plan, organize and implement a survey themselves
- write scientific papers

General abilities

The course is designed to provide students with skills related to:

- Retrieve, analyse and synthesize data and information, with the use of necessary technologies
- Decision making
- Advance free, creative and causative thinking
- Work in a multidisciplinary environment
- Work in an international context
- Generation of new research ideas

COURSE CONTENTS

Lectures' content

1. Introduction to Research Methodology
    a. Definition of research and science
    b. Importance of nursing research
2. Research Phases
    a. Conceptual phase

    b. Design phase
    c. Empirical phase
    d. Analytical phase
    e. Dissemination phase
3. Types of Research and Research Process
    a. Types of research
    b. Research process
4. Organizing a Research
    a. Selection of a research question
    b. Literature review
    c. Research framework
    d. Research objectives
5. Selecting a Research Design
    a. Types of research designs
    b. Ethical aspects
6. Protocol
    a. Rules for writing a protocol
7. Sampling
    a. The concepts of population and sample
    b. Sampling techniques
8. Research tools
    a. Selection of a research methodology
    b. Construction of a questionnaire
    c. Pilot study
9. Research tools
    a. Reliability of a questionnaire
    b. Validity of a questionnaire
10. Selection and Coding of Data
    a. How to select data
    b. How to code a questionnaire
11. Data Analysis
    a. Descriptive analysis
    b. Results interpretation
12. Data Analysis
    a. Inferential analysis
    b. Results interpretation
13. Dissemination of the results
    a. How to write a scientific text
    b. How to select a scientific conference
    c. How to select a scientific journal

Practical Application Part

Computer-based, real-time, individual and group practice in searching, finding, and reviewing of scientific information requested.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	Lectures
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 26 Tutorials: 26 Study and literature review: 48 Project: 20 **Total contact hours and training**: 120 Hour (4 ECTS)
STUDENTS EVALUATION	Final written exam (it counts 80%) containing: • Multiple choice questions • Questions of critical thinking Written assignment (it counts 20%)

RECOMMENDED READING
1) Μερκούρης, Α. (2010). *Μεθοδολογία Νοσηλευτικής Έρευνας*, Αθήνα, Εκδόσεις Έλλην (in Greek). 2) Παναγιωτάκος, Δ. (2011). *Μεθοδολογία της Έρευνας και της Ανάλυσης Δεδομένων για τις Επιστήμες της Υγείας*, Αθήνα, Εκδόσεις Διόνικος (in Greek). 3) Σαχίνη – Καρδάση, Α. (2004). *Μεθοδολογία Έρευνας*, Αθήνα, Εκδόσεις Βήτα (in Greek).

ETHICS AND LAW IN HEALTH SCIENCES

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF STUDIES	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO081**	**SEMESTER**	**6th**
COURSE TITLE	**ETHICS AND LAW IN HEALTH SCIENCES**		

TEACHING ACTIVITIES	**HOURS PER WEEK**	**ECTS**
Lectures	**3**	**4**
COURSE TYPE:	Of Specific Background - Compulsory	
PREREQUISITES:	No	
TEACHING LANGUAGE:	Greek	
COURSE CAN BE ATTENDED BY ERASMUS:	Yes	

URL:	http://eclass.uop.gr/courses/

Learning outcomes

Expected Learning Outcomes

The course aims at:

- Understanding the concepts ethics, deontology and law
- Acquiring the basic knowledge in concepts as civil, criminal and disciplinary liability in the public and private sector
- Assessment of the Code of Ethics for nurses
- Introduce to the basic principles of Bioethics
- To approach the relationship between bioethics and nursing practice
- To consider the application of the principles of bioethics in clinical research

General abilities

- Appreciate diversity and multiculturalism
- Demonstration of social, professional and ethical responsibility and sensitivity to gender issues
- Advance free, creative and causative thinking
- Adapt to new situations
- Work in a inter-scientific environment
- Be critical and self-critical
- Make decisions

COURSE CONTENTS

1. Ethics and law
2. Civil liability
3. Criminal liability
4. Disciplinary liability
5. Nurses and criminal liability in the public and private sector
6. Nurses and disciplinary liability in the public and private sector
7. Code of ethics for nurses
8. Ethics and bioethics
9. Principles of bioethics
10. Bioethics: A nursing perspective
11. Evidence - informed decision making in nursing practice
12. Staff nurse participation in a clinical research
13. A specific topic: Clinical research nursing

TEACHING AND LEARNING METHODS – ASSESSMENT

Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	• Power point presentations (PPT) • Support of learning and teaching through the electronic platform e-class	
Students Assessment	*Teaching Activities*	*Hours Workload*
	Lectures	39
	Project	30
	Study and literature review	31
	Total contact hours and training	100 Hours (4 ECTS)
STUDENTS ASSESSMENT	1. Final written exam (100%) containing multiple choice questions and/ or questions of short answers. 2. Oral presentation (30%) and final written exam (70%) containing multiple choice questions and/ or questions of short answers.	

RECOMMENDED READING

1. Fry, S.T., Johnstone, M.J. Ethics in Nursing Practice. BROKEN, Αθήνα, 1990 (Eudoxus:13257054) (in Greek)
2. Obesi, F. Legal Liabilities in Nursing. BITA, Αθήνα, 2005 (Eudoxus 311) (in Greek)
3. Nursing Ethics (Journal, in English)
4. Journal of Medical Ethics (Journal, in English)
5. Hastings Center Report (Journal, in English)

PREVENTIVE POLICIES AND PRACTICES

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO019**	**SEMESTER**	**6th**
COURSE TITLE	**PREVENTIVE POLICIES AND PRACTICES**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**4**
COURSE TYPE:		Compulsory	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	

COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes
URL:	https://eclass.uop.gr/ courses/

Learning Outcomes

Expected Learning Outcomes

Aim of the course is the introduction to preventive policies and measures.

The students learn

- about primary, secondary and tertiary prevention in order to
- about the goal of health maintenance.
- about the appliance of preventive policies in general and special populations,
- how to organize preventive measures
- how to evaluate the efficacy of such practices

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Principles of prevention
2. Preventive measures and their evaluation
3. Hereditary disorders
4. Cardiovascular disorders
5. Cancer prevention
6. Accidents
7. Vaccinations
8. Viral illnesses
9. Food born illnesses
10. Zoonoses
11. Sexually transmitted diseases
12. Nutrition and health
13. Preconception, gestation and postpartum care

Tutorial part

Tutorial exercises for the discussion of policies and papers evaluating the efficacy of preventive measures

Practice of students in the search and evaluation of data in international bases of data (MEDLINE, PubMed, Cochrane Library)

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutoring Lab's Content: 13 Study and literature review: 48 **Total contact hours and training**: 100 Hours (4 ECTS)
STUDENTS ASSESSMENT	Written final exam: 80% Short answer questions, problem solving Tutorials 20%

RECOMMENDED READING

1. Preventive medicine and public health. Trichopoulos, Petridou & Kalapothaki. Zerbinis Athens
2. Preventive medicine and Health education. Kaklamani % Koumantaki. Paschalides Athens

NURSING THEORIES

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO082**	**SEMESTER**	**6th**
COURSE TITLE	**NURSING THEORIES**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of course is the critical presentation of modern nursing theories and the theoretical position of Greek Nursing.

After successful completion of this course, the student will be able to:

- describe the basic concepts of philosophy of Nursing Science, how Nursing was evolved over time as well as the philosophical currents from which Nursing was influenced and is affected
- to develop the basic principles of analysis of the concepts that compose a theory
- understand and combines the key concepts that compose the metaparadigma of "nursing care"
- to determine the characteristics, the concepts and relationships of nursing theories as well as their implementation in various nursing fields
- to understand the relationship of philosophy and Nursing theory with Nursing practice, administration, education and research, and the way in which this is affected.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Philosophy , Science and Nursing
2. Analysis and development of concepts
3. Development of theories: Structure of conceptual relations in Nursing. Analysis and evaluation of theories
4. The great Nursing theories based on human needs and the great Nursing theories based on the interaction process.
5. The great Nursing theories based on the integration process
6. Middle field nursing theories
7. Theories from the social sciences
8. Theories from the behavioral sciences.
9. Theories of biomedical sciences
10. Theories, models and frameworks from the Sciences of management and administration.
11. Theories of learning
12. Applications of Theory in nursing practice, research, education and administration.
13. Future Issues in Nursing Theory.

Tutorial part

Tutorial exercises for the application of particular nursing theories and models aiming at the comprehension of their usefulness in the sectors of education, practice and administration. Practice of students in the search and evaluation of data in international bases of data (MEDLINE, PubMed, Cochrane Library)

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 26 Tutoring Lab's Content: 13 Study and literature review: 51 **Total contact hours and training**: 90 Hours (3 ECTS)
STUDENTS EVALUATION	Final written exam (100%) containing Multiple choice questions and questions of short answers.

RECOMMENDED READING

1. McEwen M., Wills E. Νοσηλευτικές Θεωρίες. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2012 (in Greek).
2. Αποστολοπούλου Ε. Θεωρίες της Νοσηλευτικής. Αθήνα, 1999 ((in Greek).

HEALTH ECONOMICS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO083**	**SEMESTER**	**6th**
COURSE TITLE	**HEALTH ECONOMICS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**5**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of course is the critical presentation of modern nursing theories and the theoretical position of Greek Nursing.

After successful completion of this course, is expected, the students will be able to:

- describe the basic concepts of philosophy of Nursing Science, how Nursing was evolved over time as well as the philosophical currents from which Nursing was influenced and is affected
- to develop the basic principles of analysis of the concepts that compose a theory
- understand and combines the key concepts that compose the metaparadigma of "nursing care"
- to determine the characteristics, the concepts and relationships of nursing theories as well as their implementation in various nursing fields
- to understand the relationship of philosophy and Nursing theory with Nursing practice, administration, education and research, and the way in which this is affected.

General abilities

Upon successful completion of the course students will be able to:

- analyze the factors that lead to changes in price and the quantity equilibrium,
- analyze key issues for Health Economics in the estimation of production functions,
- solve problems concerning utility and efficiency,
- conduct simple financial analyses, and
- work independently or/and as team members.

COURSE CONTENTS

Theoretical part

1. Definition and evolution of Economics
2. Meaning and purpose of Health Economics
3. Good "Health"
4. Demand for Health Services
5. Demand for Health Services - Induced demand
6. Theory of production
7. Theory of production costs for Health Care
8. Theory of distribution of health care
9. Productivity and Efficiency - Methods for measuring the efficiency
10. Economic evaluation of interventions in the health sector
11. The Hospital and its economic objectives
12. Labor market and programming of the health sector personnel
13. The labor market and the programming of the nursing staff
14. Conclusions and course evaluation

Tutorial Part

- Case studies according to the theoretical part of the unit.
- Problem solving according to the theoretical part of the unit.
- Presentation (on a voluntary basis) of students' teamworks and discussion (critical analysis) about them.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support of the learning process through the use of: • the OECD database • platform e-class, and • web-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutorials: 13 Study and literature review: 73 **Total contact hours and training**: 125 Hours (5 ECTS)
STUDENTS EVALUATION	Written exams (100%) (*in the case which students have developed individual work on a voluntary basis is estimated to be 20% of the total score, while the remaining 80% is for the written exams*)

RECOMMENDED READING

1. Υφαντόπουλος Γ. Ν., Οικονομικά της Υγείας, Γ Δαρδάνος, Κ Δαρδάνος ΟΕ, Αθήνα, 2006 (in Greek)
2. Rice, Τ. Τα Οικονομικά της Υγείας σε επανεξέταση, Μετάφραση και Επιστημονική Επιμέλεια Μάνος Ματσαγγάνης, Εκδόσεις Κριτική, Αθήνα, 2006 (in Greek)

GENETICS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL 083**	**SEMESTER**	**6th**
COURSE TITLE	**GENETICS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures		**2**	**3**
Laboratory exercises		**1**	
COURSE TYPE:		Of Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes

Expected Learning Outcomes

The purpose of this course is to introduce students into the way that human genetic features are transferred to their offspring and to help them examine the role of the nurse in genetic programs.

After successful completion of this course, the student will be able to:

• Understand the etiology of genetic based diseases and the methodology of detection of these disorders.
• Describe the application of prenatal diagnostic programs.
• Understand the role of the nurse in prenatal diagnosis and genetic counseling
• Understand the importance of early diagnosis of hereditary diseases as well as their prevention and treatment strategies
• Analyze the advantages and disadvantages of eugenics, the legal framework and the impact of its applications in population`s health and social issues.
• Analyze bioethical issues of eugenics and genetic prevention

General abilities

• Browse, organize and analyze data using the necessary technologies.
• Individual work.
• Group laboratory work.
• Adapting to new situations and make decisions.
• Production of new research ideas.
• Respect for diversity.
• Demonstrate social, professional and ethical responsibility.

COURSE CONTENTS

Theoretical Part

1. Molecular basis of genetics: gene mutations, polymorphisms, genetic recombination, DNA repair mechanisms.
2. Basic principles of classical genetics I: Mendelian characters and laws, phenotype and genotype, monogenic characters.
3. Basic principles of classical genetics II: polygenic characters, distribution of genes in a population, geographic distribution of genes.
4. Basic principles of classical genetics III: autosomal inheritance, sex-linked inheritance.
5. Chromosomes : karyotype, sex determination, and cytogenetic methodology, structural and numerical chromosomal abnormalities
6. Genetics of mitochondria: mitochondrial genome, mitochondrial diseases.
7. Genetic diagnosis I: genealogical trees, methodology for detection of chromosomal abnormalities
8. Genetic diagnosis II: detection of gene mutations by molecular methods.
9. Genetic diagnosis III: prenatal care, assisted reproduction.
10. Analysis DNA, RNA and proteins and their clinical application in detecting disease.
11. Molecular diagnosis and gene therapy of cancer.
12. Clinical cases of hereditary diseases: analysis of causes, diagnostics and treatment
13. Bioethics and eugenics.

Laboratory practice

1. Identification of gene mutations and interpretation using gene bank databases (BLAST), introduction to genetic databases OMIM to PUBMED.
2. Barr Particles: creating preparations and observation of Barr particles in epithelial cells of the mouth.
3. Observation of chromosomes in permanent preparations and construction karyotype. Identification and characterization of chromosomal mutations.
4. Debate in bioethics issues.
5. Presentation by students of clinical cases of hereditary diseases: analysis of causes, diagnostics, treatment and genetic counseling.

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	In the classroom (face to face)	
Information technology and telecommunications equipment	Presentations with Power Point program Use of electronic databases for literature search and simulation of biological and genetics models	
Students Assessment	***Teaching Activities***	***Hours workload***
	Lectures with personal presentation	26
	Laboratory Exercises with physical presence 1. Laboratory	13 Of which : 5

	Exercises in 2. Use of electronic databases for literature search 3. Debate on bioethics 4. Watching a movie about eugenics and discussion 5 Presentation of work by students and discussion	 2 2 2 2
	Study and analysis of books and articles (independent)	25
	coursework (independent)	11
	Total contact hours and training	75 Hours (3 ECTS)
STUDENTS ASSESSMENT	1. The tutorial work counts for the 20% of the final grade. The delivery of reports is prerequisite to participate in the final written evaluation of the course. 2. An individual work is presented and evaluated orally and comprises 20% of the total grade. 3. The final exam is obligatory for all students, counting for 60% of the final grade.	

RECOMMENDED READING

1. Passarge Eberhard. Εγχειρίδιο γενετικής, Κ. & Ν. ΛΙΤΣΑΣ Ο.Ε. Αθήνα 2005 (in Greek)
2. Nussbaum R., McInnes R.R., Willard H.F. Thompson & Thompson ιατρική γενετική BROKEN HILL PUBLISHERS LTD Αθήνα 2011 (In Greek)
3. James D. Watson κ.ά. Ανασυνδυασμένο DNA. ΑΚΑΔΗΜΑΪΚΕΣ ΕΚΔΟΣΕΙΣ Ι. ΜΠΑΣΔΡΑ & ΣΙΑ Ο.Ε. Αλεξανδρούπολη 2007 (In Greek)

NURSING OF CARDIOVASCULAR DISEASES

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL057**	**SEMESTER**	**6th**
COURSE TITLE	**NURSING OF CARDIOVASCULAR DISEASE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**3**	**3**
COURSE TYPE:		Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of the course is the acquisition of theoretical and clinical knowledge for the provision of individual nursing care to adult patients with acute or chronic heart diseases, having as a goal the rehabilitation of health and promotion of well being.

Upon completion of this module, student should be able to:

- identify the basic concept of quality nursing care and nursing roles for adults with acute and chronic heart diseases
- assess patients' care needs with acute and chronic heart diseases
- develop and implement individualized nursing care plan for patients with acute and chronic heart diseases
- review the individualized nursing care plan for patients with acute and chronic heart diseases according to outcomes

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Work in an interdisciplinary context
- Critical thinking
- Promotion of free, creative and inductive thinking

COURSE CONTENTS

Theoretical Part

1. Circulatory - Cardiovascular System (Anatomy - Physiology).
2. Electrocardiogram [ECG] (Method - Pathophysiology).
3. Clinical examination [review, hearing] / Laboratory Control. – Diagnostic methods [exercise tolerance test, Holter devise, cardiac ultrasound].
4. Coronary heart disease [ischemia, angina, myocardial infarction, Thrombolysis].
5. Structural heart disorders [Valvular heart disease, Cardiomyopathies].
6. Cardiac Arrhythmias / Electrical cardioversion.
7. Heart failure / Nursing care of chronic heart disease.
8. Cardiorespiratory arrest - CPR / cardiogenic shock.
9. Interventional Cardiology [Coronary Angiography, Percutaneous transluminal coronary, angioplasty, Intraaortic balloon pump, Pacing (temporary - permanent)].
10. Cardiac surgery [Heart transplantation, aneurysms, coronary artery bypass (CABG)].
11. Inflammatory heart disorders [endocarditis, pericarditis, myocarditis].
12. Cardiopulmonary diseases [Pulmonary embolism, acute pulmonary edema].
13. Heart disease Medication / Circulatory system drugs.

Clinical placement
Clinical placement at nursing departments and acute care units for patients with acute or chronic heart diseases.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face). Clinical placement at nursing departments and acute care units for patients with acute or chronic heart diseases.</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Clinical placement</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>36</td></tr>
<tr><td>Total contact hours and training</td><td>75 Hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written examination (100%) including: multiple choices questions and short open ended questions.</td></tr>
</table>

RECOMMENDED READING

1. Μπροκαλάκη-Πανανουδάκη Ηρ. Νόσοι της Καρδιάς και νοσηλευτική φροντίδα, Ολιστική Προσέγγιση. 2η έκδοση. ΛΑΓΟΣ ΔΗΜΗΤΡΙΟΣ, Αθήνα, 2013 (in Greek).
2. Ανθόπουλος Λ.Π., Ανθόπουλος Π.Λ., Φεστερίδου Χ. Εγχειρίδιο καρδιολογίας του νοσηλευτή. 1η έκδοση. ΠΑΡΙΣΙΑΝΟΥ ΑΝΩΝΥΜΗ ΕΚΔΟΤΙΚΗ ΕΙΣΑΓΩΓΙΚΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΒΙΒΛΙΩΝ, Αθήνα, 2009 (in Greek).

HEALTH IN THE WORKPLACE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL020**	**SEMESTER**	**6th**
COURSE TITLE	**HEALTH IN THE WORKPLACE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial(exercises, case studies, use of the Greek ministry of labor data base, relative European (FOHNEU, EU-OSHA) and International agencies (ILO, ICOH) etc Practice in WORKPLACE SETTINGS		**3**	**3**
COURSE TYPE:		Of Specific Background (OPTIONAL)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek (Possibility in English, as well)	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aims of the course are: the acquisition of knowledge of contemporary theory in health and safety (H&S) in workplace based on law, of interaction of health and work and of the study of hazards that affect it; the development of practical abilities through practice in holistic preventive worker's examination and visits in workplaces.

When students have completed the course will be able to:
Evaluate and be sensitive in needs assessment of the special population (workforce) in the Community, in evaluation of working conditions and risk assessment, taking into consideration environmental factors and conditions, in health promotion and in provision of holistic nursing services in workplaces, in Primary Health Care settings, in outside hospital environment, in preventing health problems, promoting its health level in each age group, and in each special group (for ex. People with special needs, pregnant/ confined women & baby, moving population, elderly etc).

General abilities

When students have completed their course will be able to:

- promote health of workers in the Community through occupational history and archive of biological measurements of workforce
- offer health education in special groups of working population
- offer care services in healthy and ill population in the workplace
- evaluate risk of environment (natural and working) in workplaces
- evaluate the application of theories and nursing designs of community nursing in their workplace
- assess, predict and contribute to management of Public health Community problems, wherever they work
- assess and archive epidemiological profile of working population, taking into consideration environment and life conditions
- measure the quality of nursing care services and health level of working population
- act in multi-disciplinary team work climate being responsible and autonomous of nursing actions at national, European and international level

COURSE CONTENTS

Theoretical Part

- Definition and purposes of Health in the workplace. Historical perspective, Work and health relationship
- Law on health in the workplace. Team of health in the workplace
- Occupational health nursing, definition, activities. First aid in the workplace.
- Worker's health- Files and surveillance
- Health education, health promotion in the workplace
- Identification and observation of working hazards. Data files in the workplace.
- Accession and rehabilitation of workers with special needs, Work accident, law, statistics
- Accident hazards, principles of safe work and prevention of accidents
- Occupational disease, law, statistics
- Systematic occupational diseases, occupational cancer
- Toxicology, Exposure limits
- Ergonomics, Work Psychology
- Epidemiology, application on the health in the workplace, Multifactor analysis of work position

Laboratory/Practice

- Study of virtual cases using multiple methods to examining in depth issues on H&S
- Occupational files and practice on spirometry, audiometry, optometrisis, etc, in terms of preventive examination of workers in school's laboratory and in visiting services of health in the workplace
- Multifactor analysis of work position, using questionnaires and examples from services of H&S

Founding Community Nursing's laboratory will allow the upgrade of practice and work of students as it will ease daily operation and achievement of educational aims in under (and

post) graduate level, in order to organize and start working following special units of: Public health, Occupational Health, Environmental health, primary Health Care, management of health services systems in the Community, Bioethics and Deontology in the Community, Health promotion and care in Home, School nursing (special education and classical), Studying of special groups of population- Transcultural nursing, Studying of diseases and caring of health needs of Community populations(for ex. Children- teenagers, workers, elderly etc).

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>In the classroom (face to face)</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>• Use of the E/C, slide projector, websites relative to the courses, of Greek statistics Service's data base, of Eurostat etc
• E-class
• Web-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Tutoring Lab's Content practice in small groups in workplace settings or activities in co-operation with local, regional, national social, cultural and productive bodies</td><td>13</td></tr>
<tr><td>Study and literature review</td><td>36</td></tr>
<tr><td>Total contact hours and training</td><td>75 Hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (100%).</td></tr>
</table>

RECOMMENDED READING

1. Velonakis Em., Sourtzi P. (2009) "HEALTH AND WORK" Ed. BETA MEDICAL EDITIONS (In Greek)
2. Linou A. (2009)"Occupational Medicine" Ed. BETA MEDICAL EDITIONS (In Greek)

7th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
1	CO 053	NURSING SERVICES MANAGEMENT-NURSING CARE DELIVERY SYSTEMS	CO	3		1	2	6	78	YES	7
2	CO030	PEDIATRICS	CO	3	1			4	52	ELECTIVE	4
3	CO034	PEDIATRIC NURSING	CO	3	1		2	6	78	YES	7
4	CO060	FIRST AID	CO	2	1			3	52	NO	3
5		FINAL PROJECT OR 3 ELECTIVE COURSES									9
		TOTAL						**19**			**30**

NURSING SERVICES MANAGEMENT-NURSING CARE DELIVERY SYSTEMS

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO053**	**SEMESTER**	**7th**
COURSE TITLE	**NURSING SERVICES MANAGEMENT - NURSING CARE DELIVERY SYSTEMS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**6**	**7**
COURSE TYPE:	Of Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes

Expected Learning Outcomes

The course aims at providing students with a systematic set of knowledge which includes the concepts, principles and theories applicable to all functions of the Nursing Services Management, in order to have the knowledge and skills to respond adequately when taking administrative and leadership roles.

After the successful completion of this course the students will be able to:
• identify the importance of the synergistic relationship between management and leadership and be able to distinguish administrative and leadership skills both their personal and their subordinates,
• employ specific theories of management and leadership,
• apply the strategic and operational planning according to the needs and use the specific tools of planning,
• examine new ideas generated by their subordinates,
• measure the culture of their organization, trace its configuration and avoid bureaucratic processes,
• classify patients according to the severity/complexity of their disease and apply the most appropriate nursing care delivery system according to the available human and other resources,
• determine with accuracy the needs of the nursing personnel,
• implement the most suitable techniques to attract and select the appropriate candidates,
• trace the subordinates' individual incentives,
• identify the informal communication networks that exist in their organization,
• identify the causes of conflicts and apply techniques for their management.

General abilities

When students have completed successfully the course will be able to:

- evaluate and appraise the implementation of leadership and management theories,
- evaluate the effects of the implemented changes,
- manage time effectively,
- appraise the productivity improvement due to the appropriate motivation,
- measure the quality of delivered nursing care and appraise staff performance,
- work independently and/or as members of a team,
- work in an international environment, and
- generate new research ideas.

COURSE CONTENTS

Theoretical part

- Decision making, problems solving and critical way of thinking.
- Classic and contemporary perceptions about Management and Leadership
- Roles and procedures of planning (a)
  - Planned change
- Roles and procedures of planning (b)
  - Time management
  - Budgeting
- Roles and procedures of organizing (a)
  - Structure of nursing services
- Roles and procedures of organizing (b)
  - Nursing care delivery systems
- Roles and procedures of staffing (a)
  - Recruitment, selection, placement, indoctrination
- Roles and procedures of staffing (b)
  - Team work
  - Policies and methods of staffing planning
- Roles and procedures of directing (a)
  - Motivation
  - Communication
- Roles and procedures of directing (b)
  - Delegation
  - Conflict management
- Roles and procedures of assessment (a)
  - Quality control of provided nursing care
  - Performance appraisal
- Conclusions and evaluation of the course

Tutorial Part

During the tutorial part take place: 91

- Case studies according to the theoretical part of the unit,
- Problem solving according to the theoretical part of the unit,
- Use of OECD data base,
- Presentation of students' teamwork and discussion (critical analysis) about them.

Clinical Practice

The clinical practice is conducted in the nursing units of the General Hospital of Sparta, where groups of students are going to attend the operation of each unit recording (namelessly) data on staffing in nursing resources, the available equipment and the case mix resulting to the drafting of relevant teamwork, where:

- Compare the applicable staffing of nursing units comparably resulting from the application of methods of staffing (including GRASP method), and
- Recommend the most appropriate nursing care delivery system based on available nursing personnel and the complexity/severity of cases.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the use of: • the OECD data base • E-class Web-class the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutorials: 13 Study and literature review: 97 Clinical Practice: 26 **Total contact hours and training**: 175 Hours (7 ECTS)
STUDENTS EVALUATION	▪ Written exams (80%) ▪ Team writing assignment (20%)

RECOMMENDED READING

1. Bessie Marquis, Carol Huston (6η έκδοση), Διοίκηση & Ηγεσία: Θεωρία και εφαρμογή στις νοσηλευτικές υπηρεσίες, Επιστημονική Επιμέλεια Δ Καϊτελίδου & Π Πρεζεράκος, Εκδόσεις ΛΑΓΟΣ ΔΗΜΗΤΡΙΟΣ, 2010 (in Greek).
2. Μερκούρης Αναστάσιος, Διοίκηση Νοσηλευτικών Υπηρεσιών, Εκδόσεις Γ. ΠΑΡΙΚΟΣ & ΣΙΑ ΕΕ, 2008 (in Greek).

PEDIATRICS

SCHOOL	of Human Movement and Quality of Life Sciences		
FACULTY	of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO030**	**SEMESTER**	**7th**
COURSE TITLE	**PEDIATRICS**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**4**	**4**
COURSE TYPE:		Specialty course. Compulsory	

PREREQUISITES:	No
TEACHING LANGUAGE:	Greek
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	Yes
URL:	https://eclass.uop.gr/ courses/NRS

Learning Outcomes

Expected Learning Outcomes

Aim of the course is the introduction to pediatrics,
Students will be able to

- take history and perform clinical examination of the newborn, child and adolescent.
- will learn to approach the child and family.
- become familiar with pediatric nosology and diagnostics in order to
- evaluate and make a plan on dealing with such problems
- be acquainted with inductive and diagnostic thinking to understand the various problems of childhood

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. History and clinical examination, Child growth
2. Child and environment, Genetics,
3. Neonatal development
4. Nutrition and failure to thrive,
5. Immune system and vaccinations
6. Hereditary disorders
7. Anemia and oncology,
8. Respiratory disorders
9. Common infection of childhood
10. Urinary tract diseases
11. Skin diseases,
12. Seizures, and rheumatology
13. Accidents, poisoning and emergency pediatrics

Tutorial part

Tutorial exercises for the discussion of patients' histories and case reports

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)

Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutoring Lab's Content: 13 Study and literature review: 48 **Total contact hours and training**: 100 Hours (4 ECTS)
STUDENTS ASSESSMENT	Written final exam: 100% Short answer questions, multiple choice questions

RECOMMENDED READING
1. Nelson pediatrics, Behrman Richard E.,Kliegman Robert M.,Arvin Ann M. Mendor. Athens 2. Pediatrics Clinical examination and diagnosis. Zitelli B., Davis H. Paschalides Athens

FIRST AID

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO060**	**SEMESTER**	**7th**
COURSE TITLE	**FIRST AID**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Laboratories		**3**	**3**
COURSE TYPE:		Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes
The aim of the course is the acquisition of theoretical and practical knowledge, which will allow for accurate assessment and proper therapeutic and nursing intervention for dealing with patients' emergency situations, before the specialist's intervention.

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Generating new research ideas
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Lectures Part

- Primary assessment and CPR
- Legal aspects of first aid, including negligence and consent
- Circulatory emergencies, such as bleeding, heart attack and stroke
- Respiratory emergencies, such as asthma and anaphylactic shock
- Internal injuries, such as broken bones, chest injuries, and internal bleeding
- Burns, seizures and other medical conditions.

Practical Application Part

The objective is to provide opportunities to consolidate theoretical knowledge and develop basic techniques and skills required in clinical practice. Each procedure is demonstrated to small groups of students and then followed by practical application on dummies.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face). Practical application on dummies.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 26 Laboratories: 13 Study and literature review: 40 **Total contact hours and training**: 79 Hours (3 ECTS)
STUDENTS ASSESSMENT	I. Final written examination (80%) including: multiple choices questions, case study analysis, short open ended questions. II. Assessment of performance of procedures in

	the laboratory (it counts 20%).

RECOMMENDED READING
6. Πρώτες βοήθειες και πρακτική θεραπευτική συνήθων καταστάσεων, Μπαλτόπουλος Γεώργιος I. BROKEN HILL PUBLISHERS LTD (in Greek). 7. NMS Επείγουσας Ιατρικής, Biddinger Paul D.,Adler Jonathan N.,Plantz Scott H.,Stearns Dana A.,Gossman William BROKEN HILL PUBLISHERS LTD (in Greek).

PEDIATRIC NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO034**	**SEMESTER**	**7th**
COURSE TITLE	**PEDIATRIC NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Tutorials, Practical application on dummies, Clinical Practice		**6**	**7**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes

The aim of Pediatric nursing is the accession of scientific knowledge and clinical dexterities for giving completed individualized care to the ill child.
Furthermore, this course will provide students the necessary skills in order to understand and handle the health problem of the ill child and his/her family with success.
Completing the course successfully, students will be able to:

- identify and describe the children's health problems,
- identify the normal physical, emotional and mental development of the child, as well as the factors that may influence the process of development positively or negatively,
- know the diagnosis and clinical examination of pediatric patient,
- describe the health problems of the individual from the neonatal period to puberty, as well as to define the nursing interventions and treatments.

General abilities

The course is designed to provide students with skills related to:

- Decision making
- Individual work
- Team work
- Advance free, creative and causative thinking
- Work in a multidisciplinary environment
- Generation of new research ideas

COURSE CONTENTS

Lectures' Content

1. The child in the hospital. The role of the pediatric nurse. Consequences of the hospital treatment into child's emotional development.
2. Nursing care of pediatric pain.
3. Nursing care of neonates.
4. Nursing care of children with health problems from respiratory system.
5. Nursing care of children with cardiac diseases.
6. Nursing care of children with acute – chronic renal failure.
7. Nursing care of children with gastrointestinal health problems.
8. Nursing care of children with craniocerebral injuries.
9. Diabetes in childhood – Nursing procedures.
10. Nursing care of children with cancer.
11. Nursing care of children with meningitis - AIDS.
12. Orthopedic disorders in childhood. Nursing procedures.
13. Nursing care of children with burns .

Tutoring Lab's and Clinical Practice's Content

1. Nursing assessment of pediatric patient. Informing child about painful procedures.
2. Taking vital signs.
3. Giving drugs to the pediatric patient. Ways, routes and medical errors.
4. Methods of vein puncture.
5. Taking various cultures from pediatric patients (blood culture, urine culture etc).
6. IV fluids.
7. Taking samples for laboratory exams. Catheterization of bladder.
8. Oxygen therapy in pediatric patients.
9. Basic cardiopulmonary resuscitation in children and adolescents.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	Lectures, Tutorials, Practical application on dummies, Clinical Practice
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	

Teaching Activities	*Hours workload*
Lectures	39
Tutoring Lab's Content	13
Clinical practice	26
Written exercise	13
Study and literature review	84
Total contact hours and training	175 Hours (7 ECTS)

STUDENTS EVALUATION	Final written exam (it counts 80%) containing:

	• Multiple choice questions • Presentation on pediatric nursing issues (it counts 20%)

RECOMMENDED READING
1) Μάτζιου Β. Παιδιατρική Νοσηλευτική. Βασικές. Αρχές στη Φροντίδα Παιδιών. Εκδόσεις Δ. Λαγός, Αθήνα, 2013 (in Greek). 2) Binder R & Ball J. Κλινικές Δεξιότητες Στην Παιδιατρική Νοσηλευτική. Επιμέλεια έκδοσης Β. Μάτζιου, Εκδόσεις Δ. Λαγός. Αθήνα, 2008 (in Greek). 3) Hockenberry M & Wilson D. Παιδιατρική Νοσηλευτική. Θεμελιώδεις γνώσεις για τη φροντίδα του παιδιού σε όλα τα στάδια της ανάπτυξης. Επιμέλεια έκδοσης Ε. Κυρίτση. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2011 (in Greek).

8th SEMESTER											
A/A	**COURSE CODE**	**COURSE TITLE**	**CT**	**T**	**LAB**	**TUT**	**CP**	**TOTAL**	**H/SEM**	**PROJECT**	**ECTS**
7.	CO084	CLINICAL NURSING	CO				10	10	130	YES	9
8.	CO061	THERAPEUTIC-CLINICAL NURSING ASSESSMENT	CO	3		1		4	52	NO	4
9.	CO085	PALLIATIVE CARE	CO	2			1	3	39	YES	4
10.	CO086	CRITICAL CARE NURSING-MEDICINE	CO	3	1		2	6	78	NO	7
11.	CO087	GERIATRIC NURSING	CO	2			1	3	39	NO	3
12.		ELECTIVE COURSE	EL					3			3
		ΣΥΝΟΛΟ						**26**			**30**
LIST OF ELECTIVE COURSES (CHOOSE ONLY 1)											
4.	EL084	SURVEILLANCE OF HOSPITAL INFECTION	EL	2		1		3	39	ELECTIVE	3
5.	EL029	INTERDICHIPLINARY APPROCHE TO HEALTH CARE	EL	1		2		3	39	NO	3
6.	EL085	NURSING CARE OF CHILDREN WITH CHRONIC DISEASES	EL	2			1	3	39	NO	3

CLINICAL NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO084**	**SEMESTER**	**8th**
COURSE TITLE	**CLINICAL NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Clinical Practice		**10**	**9**
COURSE TYPE:		Compulsory	
PREREQUISITES:		-	
TEACHING LANGUAGE:		In Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS...	

Learning Outcomes

The objective of this course is the familiarization of the students with the clinical setting and the enrichment of the knowledge they have already acquired during their studies, as they are given the opportunity to apply them in everyday clinical practice.

By the end of the course, the students should be able to:

- clarify nurses' roles and responsibilities in clinical practice,
- develop clinical skills in the provision of healthcare aimed at meeting patients needs and their families,
- apply the theoretical knowledge acquired during their studies, at the planning and the implementation of the nursing care based on the nursing process,
- use critical thinking and clinical decision making in providing patient-centered plan of care by integrating the principles of ethics,
- identify and analyze issues related to nursing research, evidence-based practice and the quality improvement of the nursing care provided.

General abilities

- Work autonomously
- Work in teams
- Work in a multidisciplinary environment
- Decision-making
- Critical thinking
- Developing of new research ideas

COURSE CONTENTS

Content

- Practice in nursing procedures and techniques learned in previous courses.
- Communication with the patient and his/her supportive environment.
- Preparation of the patient and participation in diagnostic tests.
- Nursing care of medical patients.
- Nursing care of surgical patients/Perioperative nursing care.
- Nursing care of patients with gynecological disorders.
- Nursing care of pregnant women, new mothers and the new-born.
- Nursing care of children with common pediatric problems.
- Continuous patient monitoring and nursing care of patients in specialized units.
- Communication and collaboration with other health care professionals.
- Participation in the treatment of patients with emergency problems.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	Clinical Practice
Information technology and telecommunications equipment	E-class
Students Assessment	

Teaching Activities	***Hours workload***
Clinical Practice	130
Study and analysis of bibliography	55
Written assignment	40
Total contact hours and training	225 Hours (9 ECTS)

STUDENTS EVALUATION	Written assignment based on clinical practice (100%).

RECOMMENDED READING

1. Berman A., Snyder S., Jackson C. The Nursing in Clinical Practice. Lagos D. Publications Athens, 2010. (in Greek).
2. Mosby's Elsevier. Basic, Intermediate & Advanced Nursing Skills. Baltopoulos G. (Ed.). BETA Medical Editions, Athens, 2013 (in Greek).

THERAPEUTIC CLINICAL NURSING ASSESSMENT

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO061**	**SEMESTER**	**8th**
COURSE TITLE	**THERAPEUTIC CLINICAL NURSING ASSESSMENT**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and tutorial		**4**	**4**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

The purpose of the course Therapeutic Clinical Nursing Assessment is to familiarize students with already acquired theoretical knowledge and skills in order to evaluate and document the subjective and objective data related to the diagnosis and planning of integrated patient care.

After successful completion of this course, the student will be able to

- to evaluate and document the subjective and objective data related to diagnosis and planning of integrated patient care,
- to describe and explain the use of drugs by disease entity
- to describe and evaluate the therapeutic approach individually.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Patient approach. Patient records.
2. Collection of subjective data. The interview with patient and his family.
3. Methods of collecting objective data. Clinical nursing evaluation.
4. Assessment of skin.
5. Assessment of patient mental status.
6. Assessment of nutrition.
7. Assessment of cardiovascular function.
8. Assessment of respiratory function.
9. Assessment of patient mobility.
10. Evaluation of patient excretory function.
11. Assessment of wound.
12. Peculiarities in the evaluation of specific patient groups (elderly, people with disabilitie chronic diseases).
13. Clinical decisions. Assessment, planning, evaluation.

Tutorial content

Case studies and clinical scenarios are selected so students can plan and schedule documented individualized patient nursing care plan based on clinical indications**.**

TEACHING METHODS & STUDENTS EVALUATION	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures: 39 Tutorial - Interactive teaching: 13 Study and literature review: 48 **Total**: 100 Hours (4 ECTS)
STUDENTS EVALUATION	Final written exam Γραπτή containing questions of short answers and multiple choice (100%)

RECOMMENDED READING
1. Rakel R.E., Bope E. T. Σύγχρονη Θεραπευτική. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2008. 2. Eisenberg-Copass & Mengert. Εγχειρίδιο Επείγουσας Θεραπευτικής. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2005 (in Greek). 3. Mosby 's. Βασικές Ανώτερες και Ειδικές Νοσηλευτικές Διεργασίες. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2011(in Greek). 4.Lynn P. Κλινικές Νοσηλευτικές Δεξιότητες και Νοσηλευτική Διεργασία. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011(in Greek).

5. Berman, Snyder, Jackson .Η νοσηλευτική στην κλινική πράξη. Εκδόσεις Δημήτριος Λαγός, Αθήνα, 2011(in Greek).

PALLIATIVE CARE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO085**	**SEMESTER**	**8th**
COURSE TITLE	**PALLIATIVE CARE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**3**	**4**
COURSE TYPE:		Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim is the development of students' knowledge, skills and beliefs in order to provide a therapeutic nursing care to patients/ families with cancer and other life threatening diseases. Additional objectives are the development of students' ability to recognize, assess and implement effective interventions through Nursing Process, to adult patients with cancer or other life threatening diseases

Upon completion of this module, student should be able to:

- identify the basic concept and the philosophy of palliative care and the different services of care
- assess patients' and their families' physical, social, psychological and spiritual needs of care through journey of the disease and the end of life
- develop and implement individualized nursing care plan for patients with life threatening diseases
- review the individualized nursing care plan for patients according to their palliative care needs

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Generating new research ideas
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Theoretical Part

1. Philosophy, organization and palliative care services
2. Communication with patient, family, health care team members, voluntaries, community settings. Problems and solutions. Patient – family support through out palliative treatment and terminal care.
3. Support of patients – families receiving palliative antineoplasmatic therapies
4. Holistic assessment of problems and needs of patient and family/ caregiver
5. Principles of symptom management. Holistic management of chronic pain
6. Nursing management of patients with gastrointestinal problems
7. Nursing management of patients experiencing fatigue and dyspnea
8. Principles of assessment and management of psychosocial and spiritual patients and family needs.
9. Palliative care of patients with non malignant diseases
10. Clinical decisions making. Ethical issues in palliative care practicing, education and research.
11. Caring of patients in the last days of life. Patient and family grief support. Caregiver support during patient's terminal phase of life.
12. Supporting patient and family in grief
13. Improvement of quality of palliative care. Clinical quality indicators. Quality of life

Clinical placement

Clinical placement to inpatients and outpatients departments.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face). Clinical placement to inpatients and outpatients departments.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	

Teaching Activities	***Hours workload***
Lectures	26
Clinical placement	13
Written case study	13
Study and literature review	48

	Total contact hours and training	100 Hours (4 ECTS)
STUDENTS ASSESSMENT	I. Final written examination (75%) including: multiple choices questions, case study analysis, short open ended questions. II. Written case study of clinical placement (25%)	

RECOMMENDED READING
1. Kinghorn S., Gamlin R. Ανακουφιστική νοσηλευτική. 1η Έκδοση. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2004 (in Greek). 2. Μυστακίδου Κ. Ολιστική Αγωγή Ασθενών με Χρόνιες Παθήσεις. Μονάδα Ανακούφισης Πόνου & Παρηγορητικής Αγωγής «Τζένη Καρέζη», Εργαστηρίου Ακτινολογίας Πανεπιστημίου Αθηνών, Αθήνα, 2005 (in Greek).

CRITICAL CARE NURSING – MEDICINE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO086**	**SEMESTER**	**8th**
COURSE TITLE	**CRITICAL CARE NURSING – MEDICINE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures, Laboratory and Clinical Placement		**6**	**7**
COURSE TYPE:	Specific Background (Compulsory)		
PREREQUISITES:	No		
TEACHING LANGUAGE:	Greek		
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:	No		
URL:	https://eclass.uop.gr/courses/NRS.....		

Learning Outcomes
Expected Learning Outcomes
The Aim of the course is to present the most important clinical problems in the intensive care unit (ICU). Definition of the basic principles of resuscitation independently of the underlying disease that led to the admission to the ICU but also presentation of the various differential diagnostic patterns, the treatment modalities and the prevention of complications in the ICU environment. Upon completion of this module, student should be able to: • identify the basic concept of quality nursing care for patients in the ICU • identify nursing roles for the patients in the ICU • assess patients' care needs • develop and implement individualized nursing care plan for patients in the ICU

General abilities
• Retrieve, analyze and synthesize data and information • Decision-making process • Promotion of free, creative and inductive thinking • Work in an interdisciplinary context • Critical thinking

COURSE CONTENTS
Theoretical Part 1. Philosophy and main principles of intensive (critical) care. 2. Ethical / legal issues. Psychological problems. 3. Balance of liquids – electrolytes. Acid-Base equilibria / Blood gas test. 4. Feeding [Enteric/Parenteric]. Endocrinological diseases / Diabetes mellitus. 5. Hemmorraghe / Transfusions. 6. Infectious diseases / Sepsis [decay]. 7. Pulmonary diseases / Respiratory failure. Mechanically assisted breathing / Ventilators 8. Renal diseases / Kidney failure. Cardiovascular diseases / Arrhythmias. 9. Cardiopulmonary arrest / CPR 10. Monitoring / Patient electronic follow-up. 11. Neurological diseases / Brain death. 12. Poisoning / Toxicology. 13. Pharmaceutical support / Basic drugs in ICU **Clinical Placement** Clinical placement to Intensive Care Units. **Laboratory** Application of knowledge regarding nursing skills.

TEACHING AND LEARNING METHODS - ASSESSMENT		
Teaching methods	In the classroom (face to face). Clinical placement to Intensive Care Units.	
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class	
Students Assessment	***Teaching Activities***	***Hours workload***
	Lectures	39
	Clinical placement	26
	Laboratory	13
	Study and literature review	97
	Total contact hours and training	175 Hours (7 ECTS)

STUDENTS EVALUATION	Final written examination (100%)

RECOMMENDED READING
1. Saunorus Baird M. Hicks Keen J., Swearingen P.L. Επείγουσα Νοσηλευτική – ΜΕΘ. 5η Έκδοση. ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ, Αθήνα, 2010 (in Greek). 2. Stone C.K., Humphries R.L, Μπαλτόπουλος Γ. Current Σύγχρονη Επειγοντολογία Διάγνωση και Θεραπεία. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011 (in Greek). 3. Proehl J.A. Επείγουσες Νοσηλευτικές Διαδικασίες. 4η Έκδοση. ΛΑΓΟΣ ΔΗΜΗΤΡΙΟΣ, Αθήνα, 2012 (in Greek). 4. Marino P.L. Μονάδα Εντατικής Θεραπείας. 3η Έκδοση. ΛΑΓΟΣ ΔΗΜΗΤΡΙΟΣ, Αθήνα, 2009 (in Greek). 5. Bongard F., Sue Darryl Y. Σύγχρονη εντατικολογία. 1η Έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2005 (in Greek).

GERIATRIC NURSING

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**CO087**	**SEMESTER**	**8th**
COURSE TITLE	**GERIATRIC NURSING**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Clinical Placement		**3**	**3**
COURSE TYPE:		Specific Background (Compulsory)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes
Expected Learning Outcomes
An aging population and increasing number of elderly people is a challenge for the nursing science. The best response to the various needs of this population requires comprehensive knowledge of the biological changes and the pathological events that often occur and this knowledge is the aim of this course. Upon completion of this module, student should be able to: • identify the basic concept of quality nursing care and nursing roles for elderly with acute and chronic health problems • assess elderly patients' care needs • develop and implement individualized nursing care plan for elderly patients with acute and chronic health problems • review the individualized nursing care plan for elderly patients with acute and chronic health problems

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Work in an interdisciplinary context
- Promotion of free, creative and inductive thinking
- Critical thinking

COURSE CONTENTS

Theoretical Part

1. Demographic and statistics of elderly population
2. Biological changes of the human body due to age
3. Biological changes of the human body due to age
4. Assessment of the elderly
5. Common elderly health problems and nursing interventions (pain, sleep, hygiene etc.)
6. Common elderly health problems and nursing interventions (falls, bedsore, etc.)
7. Nutrition problems of the elderly
8. Musculoskeletal problems
9. Osteoporosis
10. Special health problems (dehydration, infections of the lungs – unitary system)
11. Cancer of the elderly
12. Psychological problems of the elderly (depression, confusion, loneliness)
13. Psychological problems of the elderly (dementia, Alzheimer)

Clinical placement

Students visit elderly patients and learn to assess their problems. Additionally students participate into the care of elderly patients.

TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching methods	In the classroom (face to face). Clinical placement to inpatients nursing homes.
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	

Teaching Activities	***Hours workload***
Lectures	26
Clinical placement	13
Study and literature review	36
Total contact hours and training	75 Hours (3 ECTS)

STUDENTS EVALUATION	Final written examination (100%)

RECOMMENDED READING

1. Wold G. H. Βασική Γηριατρική – Νοσηλευτική. 4η έκδοση. ΠΑΡΙΣΙΑΝΟΥ ΑΝΩΝΥΜΗ ΕΚΔΟΤΙΚΗ ΕΙΣΑΓΩΓΙΚΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΒΙΒΛΙΩΝ, Αθήνα, 2010 (in Greek).
2. Χρυσάνθη Π. Γεροντολογική Νοσηλευτική. 8η έκδοση. ΙΩΑΝΝΗΣ Β. ΠΑΡΙΣΙΑΝΟΣ, Αθήνα, 2008 (in Greek).
3. Redfern S. J., Ross F. M. Νοσηλευτική φροντίδα ηλικιωμένων. 1η έκδοση. BROKEN HILL PUBLISHERS LTD, Αθήνα, 2011 (in Greek).

SURVEILLANCE OF HOSPITAL INFECTION

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL084**	**SEMESTER**	**8th**
COURSE TITLE	**SURVEILLANCE OF HOSPITAL INFECTION**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Tutorial exercises		**3**	**3**
COURSE TYPE:		Of General Background (Optional)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		Yes	
URL:		https://eclass.uop.gr/courses/	

Learning Outcomes

Expected Learning Outcomes

The course aims to train students in disease control and prevention issues. There is a great need to update students on hospital surveillance, antimicrobial treatment as well as disinfection and sterilization procedures. Ultimately, students will be provided with knowledge and skills necessary for infection control in order to function effectively in a hospital setting.

General abilities

- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an international environment
- Work in a multidisciplinary environment
- Generating new research ideas

COURSE CONTENTS

Theoretical Part

1. Nosocomial Infection (epidemiology, transmission and predisposition to infection).
2. Hospital Infection Control. Antimicrobial agents and nosocomial multi-resistant isolates.
3. Hospital Hygiene.
4. Protection of Healthcare Workers.
5. Antiseptics and disinfectants.
6. Hospital-acquired pneumonia.
7. Nosocomial urinary tract infection.
8. Nosocomial surgical infection.
9. Gastroenteritis.
10. Infection Surveillance and Control Programs.
11. Incidence and prevalence of the occurrence of nosocomial infections.
12. Hand Hygiene, Management of infectious waste.
13. Central services linens and laundry.

Tutorial part

During the tutorial part the student will be able to :

1. Understand the components of an infection control program.
2. Identify common nosocomial resistant organisms.
3. Meet regulations and international standards.
4. Discuss of methods of surveillance, infection rates and data analysis.
5. Implement of hospital infection control policies and monitoring programs.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face)
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	

Teaching Activities	***Hours workload***
Lectures	26
Tutoring Lab's Content	13
Study and literature review	51
Total contact hours and training	90 Hours (3 ECTS)

STUDENTS EVALUATION	Final written exam (100%) containing multiple choice questions and questions of short answers.

RECOMMENDED READING

1. NOSOCOMIAL INFECTIONS, AYLIFFE G. Ed. PASCALIDIS, Athens 2004
2. NOSOCOMIAL INFECTIONS, BENNETT J., Ed. PASCALIDIS, Athens 2004

INTERDICHIPLINARY APPROCHE TO HEALTH CARE

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL029**	**SEMESTER**	**8th**
COURSE TITLE	**INTERDICHIPLINARY APPROCHE TO HEALTH CARE**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and Seminars		**3**	**3**
COURSE TYPE:		Specific Background (Elective)	
PREREQUISITES:		No	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS.....	

Learning Outcomes

Expected Learning Outcomes

The aim of the course is double: first to investigate methodological issues, such as observation, recording and commenting in respect to matters that are raised within the framework of interdisciplinary cooperation in health services and secondly, to highlight the framework in which health and education officers/professionals cooperate. Consequently, the emphasis is going to be given in group communication and cooperation processes as well as in the identification of methods and intervention that will support health professional and trainers.

Upon completion of this module, student should be able to:

- define an interdisciplinary team
- describe the need for interdisciplinary teamwork in health care.
- identify the various roles of interdisciplinary team member
- assess benefits and problems of interdisciplinary team working

General abilities

- Retrieve, analyze and synthesize data and information
- Decision-making process
- Independent work
- Teamwork
- Promotion of free, creative and inductive thinking
- Work in an interdisciplinary context
- Critical thinking

COURSE CONTENTS

Theoretical Part

1. Principles of team-work
2. Health as the ability to adjust
3. The disease/illness as a transmitter of new messages,
4. The relationship between medical and nursing staff with patients
5. The relationship between patients and hospitals as organizations
6. Negotiation techniques
7. Crisis management and support of health professionals
8. Interdisciplinary cooperation for the management of patients' behavioral problems
9. Interdisciplinary management: the contribution of intervention
10. Juvenile delinquency: health management and education on intervention
11. Indicative examples-Directions/Guidelines for health and education officers/professionals
12. Different/Alternative interdisciplinary organizations of health education and promotion
13. The significance of the nursing role.

Seminars

Practice-in the form of experiential exercises-will entail students' personal experiences from their practice in other courses which will be followed by a thorough investigation. A Educational activities will be related to cooperation and active listening, management of change, decision making and problem solving etc.

TEACHING AND LEARNING METHODS - ASSESSMENT	
Teaching methods	In the classroom (face to face).
Information technology and telecommunications equipment	Support the learning process through the electronic platform e-class
Students Assessment	***Teaching Activities*** / ***Hours workload*** Lectures / 13 Seminars / 26 Study and literature review / 36 **Total contact hours and training** / 75 Hours (3 ECTS)
STUDENTS EVALUATION	Final written examination (100%) including.

RECOMMENDED READING

1. Παπαχριστόπουλος Ν., Σαμαρτζή Κ. Υγεία, ασθένεια και κοινωνικός δεσμός. 1η έκδοση. OPPORTUNA, Αθήνα, 2009 (in Greek).
2. Kushner T.K., Thomasma D.C, Τριανταφυλλίδου Σ. Δεοντολογία και ηθική στην κλινική πράξη. 1η έκδοση. ΠΑΡΙΣΙΑΝΟΥ ΑΝΩΝΥΜΗ ΕΚΔΟΤΙΚΗ ΕΙΣΑΓΩΓΙΚΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΒΙΒΛΙΩΝ, Αθήνα, 2007 (in Greek).

NURSING CARE OF CHILDREN WITH CHRONIC DISEASES

SCHOOL	School of Human Movement and Quality of Life Sciences		
FACULTY	Faculty of Nursing		
LEVEL OF COURSE	Undergraduate (1st cycle of studies)		
COURSE CODE	**EL085**	**SEMESTER**	**8th**
COURSE TITLE	**NURSING CARE OF CHILDREN WITH CHRONIC DISEASES**		
TEACHING ACTIVITIES		**HOURS PER WEEK**	**ECTS**
Lectures and clinical practice		**3**	**3**
COURSE TYPE:		Of Specific Background (Compulsory)	
PREREQUISITES:		YES (PEDIATRIC NURSING)	
TEACHING LANGUAGE:		Greek	
COURSE CAN BE ATTENDED BY ERASMUS STUDENTS:		No	
URL:		https://eclass.uop.gr/courses/NRS...../	

Learning Outcomes

The aim of Nursing Care of Children with chronic diseases is to provide students with specialized knowledge regarding to the care of children with chronic diseases by adopting the nursing process and the evidence-based nursing practice.

Completing the course successfully, students will be able to:

- recognize and describe the health problems of the child with chronic disease,
- recognize the restricts, the barriers and the influence the chronic disease results upon children's quality of life,
- define the ways of making nursing diagnosis and clinical examination of the child with chronic disease,
- analyze the ways of solving other health problems the chronic disease causes to the children.

General abilities

The course is designed to provide students with skills related to:

1) Decision making
2) Advance free, creative and causative thinking
3) Work in a multidisciplinary environment
4) Generation of new research ideas

COURSE CONTENTS

Lectures' Content

1. Basic principles on the care of children with chronic diseases
2. Parental needs regarding to the care of children with chronic diseases
3. Effects of chronic disease upon child's and family life
4. Training children and families to copy with asthma at home
5. Care of children with diabetes mellitus at home
6. Care of children with epilepsy
7. Nursing care of children with cancer
8. Nursing care of children who need hemodialysis and peritoneal dialysis
9. Nursing care of children with chronic pain
10. Nursing care of children with cystic fibrosis
11. Obesity in children

12. Oxygen therapy at home
13. Quality of life of children with chronic diseases

Clinical part

The main purpose of clinical practice is to familiarize the student with the child with chronic disease, identify the key characteristics of disease and care, either outpatient or in the hospital ward, and awareness regarding the analysis of data conferred upon it by history, physical examination and routine laboratory tests.

<table>
<tr><th colspan="2">TEACHING AND LEARNING METHODS - ASSESSMENT</th></tr>
<tr><td>Teaching methods</td><td>Lectures & clinical practice</td></tr>
<tr><td>Information technology and telecommunications equipment</td><td>Support the learning process through the electronic platform e-class</td></tr>
<tr><td>Students Assessment</td><td>
<table>
<tr><th>Teaching Activities</th><th>Hours workload</th></tr>
<tr><td>Lectures</td><td>26 hours</td></tr>
<tr><td>Clinical practice</td><td>13 hours</td></tr>
<tr><td>Study and literature review</td><td>36 hours</td></tr>
<tr><td>Total contact hours and training</td><td>75 Hours (3 ECTS)</td></tr>
</table>
</td></tr>
<tr><td>STUDENTS EVALUATION</td><td>Final written exam (it counts 100%) containing questions of critical thinking.</td></tr>
</table>

RECOMMENDED READING

1) Μάτζιου Β. Νοσηλευτική φροντίδα παιδιών με χρόνια νοσήματα. Εκδόσεις Δ. Λαγός, Αθήνα, 2007 (in Greek).

POSTGRADUATE PROGRAM OF STUDY

REGULATION OF OPERATION OF POSTGRADUATE PROGRAM IN «MANAGEMENT OF HEALTH SERVICES AND CRISIS MANAGEMENT»

Introduction

The Postgraduate Program awards: Postgraduate Specialization Diploma in «Management of Health Services and Crisis Management». This degree is equal to the international degree of MSc (Master of Science). The Postgraduate Program awards Postgraduate Specialization Diploma in «Management of Health Services and Crisis Management» in one of the following two sections:

III. *Emergency Health Care*
IV. *Organization and Management of Health Services*

The provisions of the Regulation of Postgraduate Studies, as these are analyzed below, specialize and complement the legislative framework which governs postgraduate studies and regulate, in a unified way, the operation matters of the specific Postgraduate Program which are not regulated by the legislation in force but either relevant authorization is provided by law or they are regulated by decisions made by the Coordinating Committee of the Program and the General Congress Special Construction (G.C.S.C.).

Subject matter/Aim

The subject matter of the Postgraduate Program in Management of Health Services and Crisis Management constitutes:

d) Promotion of knowledge and development of research in Management of Health Services.
e) Preparation of executives who respond to the modern needs of prevention, organization and management from a humanistic, health but also political and economic point of view, local and wider local crises, mass disasters and emergencies.
f) Promotion of Management of Health Services and understanding of the contribution of this specific science to Crisis Management, through the specialized knowledge and experience which the specific program provides.

The aim of the Postgraduate Program is the introduction and guidance of the postgraduate students to scientific education and research, so that the postgraduate degree holders can design and carry out research and educational programs, assess and implement the results with a view to promoting the subject matter and improving the desirable result of interventions in cases of crises, mass disasters and emergencies.

COURSES

SEMESTER A'

CORE COURSES (30 ECTS)

E) Principles of the Administration of Organizations and Projects (8 ECTS)
F) Research Methodology and Statistics (8 ECTS)
G) Principles of Marketing (7 ECTS)
H) Health Economics (7 ECTS)

SEMESTER B'

CORE COURSES (30 ECTS)

E) Epidemiology (8 ECTS)
F) Human Resources Management (8 ECTS)
G) Legislation of International Law & of Human Rights (7 ECTS)
H) Administration of Total Quality in Services (7 ECTS)

SEMESTER C'

- Two major courses
- One elective course

Major courses (20 ECTS)

I. Emergency Health Care
- Emergency Health Care (12 ECTS)
- Political and Institutional Factors in Crisis Management (8 ECTS)

II. Management and Administration of Health Services
- Information Systems of Management of Health Services (12 ECTS)
- Political and Institutional Factors in Crisis Management (8 ECTS)

ELECTIVE COURSES (10 ECTS)

- Organization of Training Programs of Crisis Management in the Community
- Natural and Environmental Disasters
- Mass media and Mass Disasters
- Management of Mental Health in Mass Disasters
- Child and Mass Disasters
- Management of Resources in Mass Disasters
- Health Education and Health Promotion
- Safety and Hygiene in the work environment
- Crisis Management in the Developing World
- Management of Mental Health of Health Professionals

SEMESTER D'

Postgraduate dissertation (30 ECTS)