

## Radiation Protection

CODE	BE0311
SEMESTER	2 <sup>ND</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Tsougos Ioannis Assistant Professor Medical Physics Department Basic Sciences Tel: +302413501863 EMAIL: <a href="mailto:tsougos@med.uth.gr">tsougos@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	Constantine Kappas, Kiki Theodorou
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	<ol style="list-style-type: none"> <li>1. Introduction 5</li> <li>2. General recommendations for Training Programmes in Radiation Protection</li> <li>3. Recommendations for the credentialing process in radiation protection</li> </ol> Specific training in Radiation Protection for Interventional Radiology Outline of specific educational objectives for mammography Outline of specific educational objectives for paediatric radiology. Outline of specific educational objectives for nuclear medicine Outline of specific educational objectives for radiotherapy Training modules on radiation safety Council Directive 97/43/EURATOM of 30 June 1997
TEACHING	LECTURES    TUTORIAL    WORKSHOPS    CLINIC  OTHER:
EXAMINATION:	Multiple choice exams. Project.

## The management of trauma patients. The ATLS idea

CODE	XP0250
SEMESTER	7 <sup>TH</sup> - WINTER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Dimitris Zacharoulis, FRCS Associate Professor of Surgery Department of Surgery University Hospital of Larissa EMAIL: <a href="mailto:zachadim@yahoo.com">zachadim@yahoo.com</a>
OTHER TEACHING-ACADEMIC STAFF:	
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	<p>This is an elective course which provides a series of lectures based on the management of trauma patients. The advanced trauma life support course has been adjusted based on the basic knowledge required by the medical students.</p> <p>The initial management of the trauma patient the first golden hour, the definition and treatment of shock, the management of the airway, the evaluation of the acute bleeding abdomen, the head and extremities injury, are few of the topics. Moreover the student will learn to prioritize injuries and provide appropriate treatment.</p>
TEACHING	<p><u>LECTURES</u>    TUTORIAL    WORKSHOPS    CLINIC</p> <p>OTHER:</p>
EXAMINATION:	

## Diagnosis of Acute Abdomen

CODE	XP0601
SEMESTER	7 <sup>TH</sup> - WINTER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Poultside Antigoni Assistant Professor General Surgery Department Surgical Specialties EMAIL: <a href="mailto:apoultside@med.uth.gr">apoultside@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	NO OTHER TEACHING STAFF
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	<p>MEDICAL STUDENTS TO BECOME FAMILIAR WITH THE COMPLEXITY OF THE DIAGNOSIS OF ACUTE ABDOMEN NOT ONLY OF SURGICAL AETIOLOGY - A VERY COMMON ENTITY EVENTUALLY LIFE THREATENING IN THE EMERGENCY DEPARTMENT</p> <p>HELP THE MEDICAL STUDENTS TO EXPAND THEIR CLINICAL JUDGEMENT ACCORDING TO SYMPTOMS PRESENTED FROM PATIENTS. AID THEM WITH DIFFERENTIAL DIAGNOSIS ACCORDING TO PRESENTATION (SITE, SYMPTOMS, MEDICAL HISTORY)</p> <p>ESTABLISH ALGORITHMS THAT WILL AID THEM TO REACH THE CORRECT DIAGNOSIS, PERFORM APPROPRIATE DIAGNOSTIC TESTS AND INITIALIZE IMMEDIATE APROPPRIATE TREATMENT</p>
TEACHING (Underline or write)	LECTURES TUTORIAL WORKSHOPS CLINIC  OTHER: INTERACTIVE LECTURES, PRESENTATION AND DISCUSSION OF PTS FROM THE SURGICAL DEPARTMENT ACCORDING TO ADMISSION FROM EMERGENCIES..
EXAMINATION:	ORAL

## Haemodynamics of Vascular Diseases

CODE	XP0730
SEMESTER	7 <sup>TH</sup> - WINTER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	<b>Athanasios Giannoukas</b> Professor Vascular Surgery Department of Vascular Surgery, Faculty of Medicine, University of Thessaly Tel. <b>+30 2413501739</b> Email: giannouk@med.uth.gr
OTHER TEACHING-ACADEMIC STAFF:	A. Giannoukas, M. Matsagkas, S. Koutsias, A. Koutsiaris, D. Kardoulas, K. Stamoulis, Ch. Karathanos, N. Rousas, K. Spanos
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	The understanding of basic principles of haemodynamic pathophysiology of vascular diseases <ol style="list-style-type: none"> <li>1. Basic principles of fluid mechanics- Conservation of matter, energy and momentum of the flow.</li> <li>2. Fluid flow in tubes- types of flow</li> <li>3. Pulsatile flow- Flow in elastic tubes</li> <li>4. Haemodynamic evolution of atheromatous disease and stenosis</li> <li>5. Haemodynamics of lower limb ischaemia- acute and chronic ischaemia- critical ischaemia</li> <li>6. Haemodynamics of lower limb ischaemia repair - chronic and acute ischaemia- Ischaemia-reperfusion syndrome</li> <li>7. Haemodynamic performance of arterial anastomosis and grafts</li> <li>8. Haemodynamics of arterial aneurysms</li> <li>9. Haemodynamic pathophysiology of extracranial and intracranial circulation</li> <li>10. Haemodynamics of arteriovenous communications</li> <li>11. Haemodynamics of venous circulation of lower limbs- pathophysiology of chronic venous insufficiency and venous thrombosis</li> <li>12. Application of non-invasive diagnosis and the haemodynamic interpretation of the pathophysiology of vascular diseases</li> <li>13. Clinical applications</li> </ol>
TEACHING	<u>LECTURES</u> TUTORIAL <u>WORKSHOPS</u> CLINIC  OTHER:
EXAMINATION:	Examination 90%, Attendance 10%

## PAIN THERAPY

CODE	XP0301
SEMESTER	8 <sup>TH</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Arnaoutoglou Eleni Professor Anesthesiology Department Surgical Specialties, University Hospital Larissa, University of Thessaly Tel: +302413502952 EMAIL: <a href="mailto:earnaout@uth.gr">earnaout@uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	G. Vretzakis and Consultan Anesthesiologists
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	<p>With the completion of the course, the student should be able to recognize clinical syndromes of pain, to approach a patient in pain, to suggest simple treatment protocols, to know the complications of pain treatment and to be able to deal with them, to know alternative pain treatments, how to prescribe pain medications and how to offer palliative care and psychological support to the patient and his close family.</p> <p>Course Description (synopsis):</p> <ul style="list-style-type: none"> <li>- History, definition and clinical syndromes of pain</li> <li>- Anatomy and physiology of pain</li> <li>- General principles of pain evaluation and pain management</li> <li>- Pharmacology of pain</li> <li>- Invasive techniques in pain treatment</li> <li>- Treatment of acute pain</li> <li>- Treatment of chronic benign pain</li> <li>- Treatment of chronic malignant pain</li> <li>- Dealing with pain treatment complications</li> <li>- Palliative care</li> <li>- Alternative pain treatment. Acupuncture</li> <li>- Acute pain scenarios</li> <li>- Chronic pain scenarios</li> <li>- Clinical practise at the pain clinic</li> </ul> <p>Suggested reading material:</p> <ol style="list-style-type: none"> <li>1. IASP Guidelines, WHO Treatment Guidelines on Pain</li> <li>2. Clinical Practice Guidelines-APS</li> </ol>
TEACHING	LECTURES    TUTORIAL    WORKSHOPS    CLINIC  OTHER: Theoretical teaching, practice at the Pain Clinic
EXAMINATION:	Lesson Attendance, Oral and Written Exams

## EMERGENCY MEDICINE

CODE	XP0311
SEMESTER	8 <sup>TH</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Arnaoutoglou Eleni Professor Anesthesiology Department Surgical Specialties, University Hospital Larissa, University of Thessaly Tel: +302413502952 EMAIL: <a href="mailto:earnaout@uth.gr">earnaout@uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	Consultant Anesthesiologists
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	<p>To learn the basic skills and principles in order to offer to the critically ill patient-regardless of the type of the injury – the necessary time until advanced life support begins</p> <p>Course Description (summary):</p> <ul style="list-style-type: none"> <li>• Introduction to Emergency Situations</li> <li>• Basic Principles in emergency care – first aid</li> <li>• Cardiopulmonary resuscitation</li> <li>• Circulatory system emergency situations, acute chest pain, anaphylaxis, chest trauma</li> <li>• Acute Respiratory distress, airway obstruction, mechanical ventilation, toxic gas inspiration</li> <li>• Acute CNS disorders, epilepsy, poisoning, drug addiction, head injuries</li> <li>• Acute body temperature disorders, burns, near drowning</li> <li>• Massive accident – triage</li> <li>• Taking care and transporting a critically ill patient</li> <li>• Cervical spine injuries</li> <li>• Basic principles of trauma patient treatment during the “Golden first hour” of the accident</li> </ul>
TEACHING	LECTURES    TUTORIAL    WORKSHOPS    CLINIC  OTHER: Theoretical test, Cardio Pulmonary Resuscitation Laboratory
EXAMINATION:	Oral and Written Exams, Lesson attendance

## Principles of Surgical Oncology

CODE	XP0260
SEMESTER	8 <sup>TH</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Tepetes Konstantinos Professor General Surgery Department Surgical Specialties, University Hospital of Larissa Email: <a href="mailto:ktepetes@med.uth.gr">ktepetes@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	Exposure in General Principles regarding Surgical Oncology through lectures and group discussions. Active involvement in Cancer patients treatment in the wards and in the OR. Voluntary involvement in clinical research regarding projects in Cancer Surgery
TEACHING	<u>LECTURES</u> <u>TUTORIAL</u> <u>WORKSHOPS</u> <u>CLINIC</u>  <u>OTHER:</u>
EXAMINATION:	Oral evaluation

## Radiotherapy

CODE	AA0501
SEMESTER	8 <sup>TH</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Kyrgias George Associate Professor Radiation Oncology Department Clinical and Laboratory Research, EMAIL: <a href="mailto:gkyrgias@med.uth.gr">gkyrgias@med.uth.gr</a> Tolia Maria Assistant Professor Radiation Oncology Department Clinical and Laboratory Research, EMAIL: <a href="mailto:mariatolia@med.uth.gr">mariatolia@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	NO
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	Treatment of the most frequent cancers and some benign clinical entities with the delivery of irradiation.
TEACHING (Underline or write)	Lectures, Workshops
EXAMINATION:	Exams 60%, Participation 40%.



## Selected Topics in Hematology

CODE	Π00900
SEMESTER	8 <sup>TH</sup> – SUMMER
TYPE	ELECTIVE
COURSE RESPONSIBLE	George Vassilopoulos Professor, Hematology – Internal Medicine Department of Hematology, Larissa University Hospital Tel: +30 241350 1034 Tel: +30 241350 1625 Email: <a href="mailto:gvasilop@med.uth.gr">gvasilop@med.uth.gr</a>
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	Understand (i) the basic concepts of hematopoiesis, both normal and malignant., (ii) the tools/tests required for the analysis, (iii) the different disease entities with an emphasis on pathophysiology and molecular biology and (iv) the basic concepts of immuno and chemotherapy
TEACHING	Lectures along with problem based learning on real patient cases
EXAMINATION:	MCQs

## Epidemiology and prevention of infectious diseases – Global public health threats

CODE	KI0950
SEMESTER	8 <sup>TH</sup> - SUMMER
TYPE	COMPULSORY COURSE – <u>SELECTION COURSE</u>
COURSE RESPONSIBLE	Hadjichristodoulou Christos Professor of Hygiene and Epidemiology Department Clinical and Laboratory Research Laboratory of Hygiene and Epidemiology Tel: +302410565006 Fax: +302410565051 Tel: +302410565007 EMAIL: <a href="mailto:xhatzi@med.uth.gr">xhatzi@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	Varvara Mouchtouri Teaching & Research Fellow Laboratory of Hygiene and Epidemiology Tel: +302410565009 Fax: +302410565051 Tel: +302410565007 EMAIL: <a href="mailto:mouchtourib@med.uth.gr">mouchtourib@med.uth.gr</a>
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	The purpose of the module is to provide students the fundamental knowledge about epidemiology and prevention of infectious disease with emphasis to global public health threats: pathogen, endemicity, mortality, morbidity, reservoir, mode of transmission, incubation period, period of communicability, risk groups, prevention and control measures, international measures. Moreover, the role of International Health Regulations to global health security will be analysed.
TEACHING	LECTURES    TUTORIAL    SITE VISITS
EXAMINATION:	One assessed assignment, contributing 100% to the overall grade for the module

## Genitourinary Oncology

CODE	XP0511
SEMESTER	10 <sup>TH</sup> – SUMMER
TYPE	COMPULSORY COURSE – <u>ELECTIVE COURSE</u>
COURSE RESPONSIBLE	Gravas Stavros Associate Professor Urology Department Surgical Specialties EMAIL: <a href="mailto:sgravas@med.uth.gr">sgravas@med.uth.gr</a>
OTHER TEACHING-ACADEMIC STAFF:	G. Koukoulis, V. Tzortzis, E. Kapsalaki, A. Karatzas, I. Zachos
ECTS:	2,00
COURSE OBJECTIVES/ DESCRIPTION:	Students will: a) learn the pathophysiology, and the molecular mechanisms of development and progress of genitourinary neoplasms b) understand the primary and secondary prevention methods c) be familiar with the contemporary diagnostic and therapeutic approach for the management of genitourinary neoplasms according to the latest evidence
TEACHING (Underline or write)	<u>LECTURES</u> TUTORIAL    WORKSHOPS    CLINIC OTHER: Case studies
EXAMINATION:	Written