## EASTERN MEDITERRANEAN UNIVERSITY

## **FACULTY OF HEALTH SCIENCES ANESTHESIA**



## **COURSE DESCRIPTIONS**

ANES121 Anesthesiology- I Therminology of Anesthesiology, the definition and history of anesthesia, the description and working principles of the operating room, the description and presentation of the recovery room, teamwork in the operating room, the ethical and legal rules, the introduction of anesthesia machines and anesthesia circuits, the protection of anesthesia machines, premedication and the importance of record keeping in anesthesia. Credits: (3/3/0)4 Prerequisites: None ECTS: 7 Abbreviated Title: Ánesthesiology-I Category: Area Core Teaching Language: Turkish Keywords: anesthesia, reanimation, intensive care ANES122 Anesthesiology-II Issues of preoperative evaluation, preoperative assessment of fluid and electrolyte balance, Premedication, Monitorization, Intubation, Extubation, Position and complications, Recovery room, approach to postoperative pain, Anesthesia and drugs (Dopamine-Dobutrex), Anesthesia and drugs (Nitroglycerin-Niprus), Anesthesia and Medications (Digital), Anesthesia and Drugs (H2 receptors-Antiemetics), Anesthesia and Drugs (Esmolol-Propranolol). Credits: (3/3/0)4 Prerequisites: None ECTS: 6 Abbreviated Title: Anesthesiology - II Category: Area Core Teaching Language: Turkish Keywords: anesthesia, reanimation, intensive care ANES104 **Anesthesia Technical Special Care and Treatment** This course involves the issues of possible malfunctions with anesthesia machines and systems, maintenance and repair of equipments used in anesthesia, sterilization, liquids and their preparation, maintenance of monitors and catheters in the operating room and maintenance and repair of anesthesia circuits. Credits: (3/2/0)4 Prerequisites: None ECTS: 6 Abbreviated Title: Anesthesia Technics Teaching Language: Category: Area Core Turkish Keywords: anesthesia, maintenance, machine Pharmacology in Anesthesia Introduction to pharmacology, drug administration routes, pharmaceutical forms, drug pharmacokinetics, passage of drugs from membranes, pharmacokinetic of drugs (absorption, distribution), pharmacokinetic of drugs (metabolism and excretion), factors that altering the effects of drugs, drug interactions, the toxic effects of drugs, drug allergies, drug action mechanisms, concepts related with pharmacodynamics, treatment of fluid-electrolyte and acid-base disorders, oxygen treatment, preanaesthetic medication, introduction to general anesthetics, the pharmacokinetics of inhalation and intravenous anesthetics. Credits: (2/0/0)2 Prerequisites: None ECTS: 5 Abbreviated Title:Pharmacology in Anesthesia Category: Area Core Teaching Language: Turkish Keywords: medicine, pharmacokinetics, anaesthetics

## **Summer Training**

Practical reinforcement of theoretical knowledge acquired in I. and II. Semester, in Anesthesiology and Reanimation Departments of public hospitals and private hospitals and intensive care units located in the TRNC and Turkey for 4 weeks.

Credits: (0/0/0) 0

Abbreviated Title: Summer Training

Turkish

Keywords: hospital, internship

Prerequisites: None Category: Area Core

ECTS: 5 Teaching Language: ANES221 Anesthesiology-III

Liver disease anesthesia, the endocrine system and anesthesia, anesthesia in cardiovascular surgery, anesthesia in multiple trauma, anesthesia in ENT surgery, pediatric anesthesia, anesthesia in organ transplantation, anesthesia in kidney diseases.

Credits: (3/3/0)4 Prerequisites: None ECTS: 7 Abbreviated Title: Anesthesiology - III Teaching Language: Category: Area Core

Keywords: anesthesia, reanimation, intensive care

ANES227 Anesthesiology -IV 7.

Endotracheal intubation, classification of ventilators and the principles adjustment, types of artificial respiration and their classification, setting the ventilator, standard artificial respiration modes, alternative artificial respiratory modes, rare respiratory support modes, application of artificial respiration, effects and complications of artificial respiratory, monitorization, lungs' care, Anatomy and physiology of the circulatory system, heart lung machine and materials (Oxygenators, autotransfusion), infusion pumps and materials, feeding pumps and materials, resuscitation in the delivery room, apnea, hypotension and shock, fluid - electrolyte treatment in newborn period, newborn convulsions, respiratory distress, perinatal asphyxia

Prerequisites: None Credits: (3/3/0)4 ECTS: 8 Abbreviated Title: Anesthesiology - IV Category: Area Core Teaching Language:

Turkish

Keywords: anesthesia, reanimation, intensive care

ANES223 Monitorization 8. The importance of monitorization in the operating room and intensive care unit, respiratory system monitorization, monitorization of the circulatory system, urinary system monitorization, monitorization of the nervous system, monitorization of body temperature.

Credits: (2/3/0)3 Prerequisites: None ECTS: 5 Abbreviated Title: Monitorization Category: Area Core Teaching Language:

Turkish

Keywords:intensive care, monitorization

ANES222 Infection Diseases 9.

Description and composition of infection, asepsis, antisepsis, definition of sterilization, types of sterilization, definition of disinfection, disinfection types, hand-washing practices of health personnel, wearing gloves-shirt, overview and organization of the hospital check services, infection control committees, definition of Isolation, category-specific isolation practices, frequent hospital infections, intensive care infections, blood-borne infectious diseases and precautions for protection, correct disposal of medical waste and making them harmless, wrong practices and recommendations in infection control, whether hospital-patient syndrome is a hospital infection or not.

Credits: (3/0/0)3 ECTS: 5 Prerequisites: None Abbreviated Title:Infectious Diseases Teaching Language: Category: Area Core

Keywords: infection, hospital, medical waste

ANES205 First Aid 10. Structure and functioning of the human body, basic life functions, basic concepts of first aid, scene, emergency case assessment, basic life support, injuries, wound care, bleedings, fractures, dislocations, sprains and strains, heat-related problems, poisoning, disorders of

consciousness, strangulations, foreign bodies, transport techniques, wrapping techniques, first aid kit.

Credits: (2/1/0)2 Prerequisites: None ECTS:2 Abbreviated Title: First Aid Category: Area Core Teaching Language:

Turkish

Keywords: emergency intervention, injury, first aid

**Professional Practice** ANES228 11. The actualization of practical training in anesthesiology and reanimation departments of government and private hospitals and intensive

care services.

ECTS: 11

Teaching Language:

Credits: (0/12/0)6 Prerequisites: None Category: Area Core Abbreviated Title: Profesional Practice - II

Keywords: proffesional practice, internship

| Course Descriptions – II - English : All compulsory courses offered by other academic units |   |  |                                       |
|---|---|--|---------------------------------------|
|   |   |  |                                       |
| 1.  | FZTR151 Introduction to Anatomy  Anatomy and physiology of human, body systems and their functions to students. In the content of course, bones, joints, muscles, systems, parts of the organism (cell-tissue-organ-system), their tasks and communication between these sections are covered.  |  |                                       |
|   | Credits: (2/2/0) <b>3</b> Abbreviated Title: Introduction to Anatomy Keywords: the human body, skeleton   | Prerequisites: None<br>Category: Area Core       | ECTS: 5<br>Teaching Language: Turkish |
|   | Department offering the course:Department of Ph   | nysiotherapy and Rehabilitation                  |                                       |
| 2.  | FZTR152 Introduction to Physiology  Parts of the organism (cell-tissue-organ-system), their tasks and communication between these sections are examined. In the content of course, cell physiology, nerve, muscle, blood physiology and the physiology of the central nervous system and physiology of respiratory and circulatory systems are included.  |  |                                       |
|   | Credits: (2/0/0) <b>2</b> Abbreviated Title:Introduction to Physiology Turkish Keywords: Organism, System Department offering the course: Department of Ph  | Prerequisites:None Category: Area Core           | ECTS: 3<br>Teaching Language:         |
|   | FZTR153 Introduction to Microbiolog   | nysiotherapy and Kenabilitation                  |                                       |
| 3.  | General knowledge to anesthesia students in the field of microbiology and parasitology. In the content of course the issues of the classification of microorganisms and protozoa, their general structure and characteristics, basic immunology, vaccines and serums are covered.   |  |                                       |
|   | Credits: (2/0/0) 2 Abbreviated Title: Introduction to Microbiology Turkish Keywords: microorganism, parasite  | Prerequisites: None<br>Category: Area Core       | ECTS: 4<br>Teaching Language:         |
|   | Department offering the course: Department of Pl  | hysiotherapy and Rehabilitation                  |                                       |
| 4.  | FZTR223 Terminology and Concepts Information on basic medical terms and concepts international classification, the basic elements the and disease.  Credits: (2/0/0)2 Abbreviated Title:Terminology and   | .In addition, it will be given information al    |                                       |
|   | Concepts of Health Keywords: basic medicine, disease Department offering the course: Department of Po   |  | rodomng Language. Tunton              |
| 5.  | Introduction to Computer Introduction of the computer and constituent parts of the computer, the significant basis of computer languages, information and skill of software, the presentation of computer package programs widely used in the fields of health and education and gaining the ability to use.  |  |                                       |
|   | Credits: (2/2/0)3 Abbreviated Title: Introduction to Computer Turkish Keywords: computer, program   | Prerequisites: None<br>Category: University Core | ECTS: 4<br>Teaching Language:         |
| 6.  | ENGL161 Basic English - I  ENGL161 (Basic English I) is a first semester, first year English language course. It is designed to help students improve the level of their English to halfway towards A1 level, as specified in the Common European Framework of Reference for Languages. This course introduces the students to the English language and aims to develop listening, speaking, reading and writing skills.  Credits: (3/1/0)3 Prerequisites: None ECTS:6  Abbreviated Title: Basic English I Category: UC Course Teaching Language: English Keywords: Common European Framework of References for Languages, critical thinking, A1- |  |                                       |
| 7.  | ENGL162 Basic English - II  ENGL162 is a second semester, first year English language course. It is designed to help students improve the level of their English to A1 level, as specified in the Common European Framework of Reference for Languages. This course introduces the students to the English language and aims to develop listening, speaking, reading and writing skills in academic settings.   |  |                                       |
|   | Credits: (3/1/0)3<br>Abbreviated Title: Basic English II<br>Keywords: Common European Framework of Rei  |  | ECTS:6<br>g Language: English<br>A1   |
|   |   |  |                                       |

KIMY109 **Basic Chemistry** Metric systems, conversion factors, density, specific gravity, temperature relationships, structure of atoms, isotopes, electron arrangement, orbitals, periodic table properties, compounds, bondings, mole concept, radioactivity, physical states of matter, the general principles of inorganic chemistry, physical states of substance and energy, gases, solutions, solubility, and electrolytes. Concentration and solution properties, percentage concentrations, molarities, kinds of solutions, acids and bases, pH calculations, the neutralization reaction, buffer solutions. Credits: (3/1/0)3 Prerequisites: None ECTS:5 Abbreviated Title: Basic Chemistry Category: Area Core Teaching Language: Turkish Keywords: chemistry, substance Department offering the course: Department of Chemistry Atatürk's Principles and History of Turkish Reforms The topics of the collapse of the Ottoman Empire, Tanzimat and Islahat, I. and II. Constitutional Period, World War I and the entry of the Ottoman Empire, the Armistice of Mudros. Atatürk's personality and his departure to Samsun, congresses period and the Independence War, the Abolition of the Sultanate, the Lausanne Peace Treaty, the principles and reforms of Atatürk and modern Turkey. Prerequisites: None ECTS: 3 Credits: (2/0/0)2 Abbreviated Title: Atatürk's Principle and Turkish Reforms Course Category: University Teaching Language: Turkish Keywords: History, revolution Department offering the course: Ataturk Research Center PSYC111 Introduction to Psychology 10. Definition of psychology, its history and its branches, development of behavior, personality, learning principles, behavioral disorders and their treatment, attitudes and prejudice, social influences on behavior, scientific foundations of psychology, basic concepts and the scientific method in psychology, basic processes and applications in psychology. Credits: (2/0/0)2 Prerequisites: None ECTS: 2 Abbreviated Title: Psychology Category: Area Core Teaching Language:Turkish Keywords: psychology, science Department offering the course: Department of Psychology