

ANESTHESIA

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE101	Anesthesia Pharmacology I	(2,0,2)	2	3	Compulsory Course

General Pharmacology: Introduction to pharmacology, pharmaceutical forms of drugs, routes of administration, absorption, distribution, metabolism and excretion of drugs. Chemotherapeutic drugs. Factors changing drug effect and drug interactions, sympathetic system, parasympathetic system. Central Nervous System Drugs: General anesthetics; inhalation general anesthetics, intravenous general anesthetics. Drugs effective on the Autonomic Nervous System. Drugs acting on the endocrine system. Local anesthetics, narcotic analgesics, hypnotics, neuroleptics, anxiolytics, neuromuscular blockers, CNS stimulants.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE102	Anesthesia Pharmacology II	(2,0,2)	2	3	Compulsory Course

General Pharmacology, Chemotherapeutic drugs, Central nervous system effective drugs, autonomic nervous system effective drugs, CVS effective drugs, Autocoids, Endocrine system effective drugs. Drugs Used for Sedation, Anticholinergic and Antihistaminic Drugs, Drugs That Reduce Stomach Acid And Volume, Gas Anesthetics, Evaporable Liquid Anesthetics, Intravenous Anesthetics, Antagonist Drugs of Intravenous Anesthetics, Local Anesthetic Drugs, Ester Type, Amide Type Local Anesthetics, Muscle Anesthetics, Depository Nondepolarizing Brow Relaxants, Brow Relaxants, Antagonists of Drugs, Adrenergic agonist and antagonist Drugs, Hypotensive Drugs, Anesthesia supplement drugs.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE104	Anesthesia Devices	(2,2,3)	3	3	Compulsory Course

Introduction to anesthesia and historical development, anesthesia circuits, anesthesia devices, anesthesia systems, laryngoscopy and laryngoscopes, mask used in anesthesia, airway, ambu, materials, endotracheal tubes and intubation, intravenous administration techniques, spinal anesthesia equipment, epidural anesthesia equipment, blood pressure measurement and blood pressure monitors. General anesthesia circuits, neuromuscular junction monitoring, aspirators, cautery, fire and explosions, oxygen therapy, hypoxia and CO₂, depth of anesthesia, hemodynamic monitoring, controlled hypotension, hypothermia and anesthesia, hypothermia and maling hyperthermia, ventilators used in anesthesia, respiratory therapy.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE106	Anesthesia Practises I	(0,8,4)	4	5	Compulsory Course
<p>Endotracheal intubation, difficult airway inspections, intravenous interventions, intraarterial cannulation, central venous catheter application, invasive and noninvasive pressure monitoring, mechanical ventilation applications, all monitoring applications, postoperative patient analgesia applications and PCA devices monitoring, patient positions and follow-up at the time of operation.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE108	Anesthesia Reanimation I	(4,0,4)	4	4	Compulsory Course
<p>Operating room and its principles, legal responsibility of anesthesia technician, concept of general anesthesia, history of anesthesia, pre-anesthesia evaluation, routine laboratory tests, ASA classification, documentation, time-out, preparation of the room, anesthesia circuits and anesthesia device, monitoring, surgical position and complications, patient positions, airway and intubation, inhalation, intravenous anesthetics and opioids, muscle relaxants, local anesthetics, vasoactive agents, fluid-electrolyte balance, acid-base balance, blood and blood products transfusion, muscle relaxants. Pediatric anesthesia, anesthesia in respiratory system diseases and basic principles in anesthesia in cardiovascular system diseases, postoperative lung complications, cardiopulmonary resuscitation, liquid electrolyte therapy, hypoxia oxygen therapy, definition of shock, its types and basic principles in treatment.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE203	Anesthesia Pharmacology III	(2,0,2)	2	3	Compulsory Course
<p>Cardiotonic Glycosides, Antiarrhythmic Drugs, Antianginal Drugs, Adrenergic Agonist and Antagonist Drugs, Administration of Hypotensive Drugs, Central Nervous System Drugs, Autonomic Nervous System Drugs, Respiratory System Effective Drugs, Endocrine System Effective Drugs, Cardiovascular System Effective System, Gastrointestinal drugs, Drug Use in Pregnancy, Intravenous Anesthetics, Inhalation Anesthetics, Urinary System Drugs, Hemolytic, chemotherapeutic drugs, diuretics and drugs that regulate fluid-electrolyte balance, antibiotic-derived drugs.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE207	Anesthesia Practises II	(0,8,4)	4	12	Compulsory Course

Endotracheal intubation, difficult airway controls, intravenous interventions, intraarterial cannulation, central venous catheter application, invasive and noninvasive pressure monitoring, mechanical ventilation applications, all monitoring applications, central and peripheral blocks, patient positions and follow-up at the time of operation. Postoperative pain and control methods and monitoring of PCA devices, non-operating room anesthesia applications.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE208	Anesthesia Practises III	(0,16,8)	8	9	Compulsory Course

Endotracheal intubation, difficult airway controls, intravenous interventions, intraarterial cannulation, central venous catheter application, invasive and noninvasive pressure monitoring, mechanical ventilation applications, all monitoring applications, central and peripheral blocks, patient positions and follow-up at the time of operation. Postoperative pain and control methods and monitoring of PCA devices, non-operating room anesthesia applications.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE209	Anesthesia Reanimation II	(15,0,15)	15	15	Compulsory Course

Anesthesia and system diseases, Anesthesia and cardiovascular surgery, Anesthesia and neurosurgery, Anesthesia in patients with neurological and psychiatric diseases, Anesthesia in patients with kidney disease, Anesthesia in genitourinary surgeries, Anesthesia in liver diseases, and basic principles in anesthesia in patients with endocrine diseases. Anesthesia and Trauma, non-operating room anesthesia applications, postoperative pain and control methods, central and peripheral blocks, Intravenous anesthesia, dissociative anesthesia, acid-base balance, arterial blood gases, blood transfusions, preoperative fluid therapy, ECG analysis, anesthesia in non-operating room applications, intoxications basic information about first aid, pain, intensive care and mechanical ventilation

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ANE210	Anesthesia Reanimation III	(10,0,10)	10	10	Compulsory Course

Anesthesia in ophthalmology, anesthesia in ear and nose surgery, ARDS, ECG analysis, anesthesia equipment, device, technical specifications, routine preoperative examination, premedication, anesthetics, inhalation anesthetics, narcotic analgesics, neuromuscular transmission, autonomic nervous system drugs,

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
					birth anesthesia, newborn and their properties , neonatal resuscitations, recovery room and patient follow-up, aspiration and protection, Thermoregulation and temperature changes under anesthesia. Hypothermia, malignant hyperthermia, intensive care, mechanical ventilation, embolism, anesthesia complications, controlled hypotension during and after anesthesia, anesthesia in cesarean section, anesthesia in bronchoscopy, hyperbaric oxygen therapy, pheochromocytomy, anesthesia, postoperative pain management, invasive procedures, regional anesthesia and patient preparation, nerve blocks, RIVA, pregnancy and anesthesia. Anesthesia and its toxic effects, coagulation, immunity, infection and prevention, TIVA, spinal anesthesia, epidural anesthesia, anesthesia of the newborn, electrolyte disorders, anesthesia in the elderly, difficult intubation, myasthenia gravis, anemia, hypertension and anesthesia , myocardial infarction, ECG, arrhythmias, arrhythmia treatment, physical and anesthesia, EEG, depth of anesthesia - MAC, endocrine diseases and anesthesia, hyperthyroidism, anesthesia in trauma surgery, emergency surgery conditions, emergency surgery and anesthesia, patient transport, aspiration pneumonia, pulmonary function tests, pulmonary edema diagnosis and treatment approach, total par enteral nutrition, tumor surgery and approach in anesthesia.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
MAT151	Basic Mathematics	(3,0,3)	3	3	Compulsory Course
					Numbers and Number systems; Natural Numbers, Integers, Rational Numbers and Decimals, Exponents, Radical Numbers. Algebraic Expressions, Identities, Factorization and Rational Expressions, Functions, Equations, Polynomials, Functions, Inequalities, Trigonometry, Complex Numbers, Systems of Linear Equations, Matrix and Determinants. Introduction to Statistics, Measures of Central Tendency, Measures of Distribution

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO101	Medical Terminology	(2,0,2)	2	3	Compulsory Course
					Introduction to terminology, Prefixes that make up medical terms, Stems, Suffixes. Movement system terms, Nervous system terms, Blood terms, Cardiovascular terms, Respiratory system terms, Endocrine system terms, Sense organ terms, Urinary system terms, Genital system terms. Giving information about the standard terminology of surgery and diseases.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO102	Diseases Information	(3,0,3)	3	3	Compulsory Course
					General structure of the human body. Cell and its functions, Metabolism, Body fluids, electrolytes and tissue types. Organs and systems, Musculoskeletal, Nervous, Respiratory, Circulatory, Digestive, Excretory systems, reproductive organs and their functions. Concepts of health and disease, symptoms, Findings, Etiology, Examination of diseases, Examination forms and diagnostic procedures. Congenital anomalies,

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
Eye-ENT Diseases, Urogenital System Diseases, Infectious and parasitic diseases, Cancer, Endocrine system diseases, Blood diseases, Mental health and disorders, Nervous system and sensory organs diseases.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO104	Physiology	(3,0,3)	3	3	Compulsory Course
Basic concepts of physiology, cell, tissue, organ and system organization and working mechanisms and functions of body systems, cell physiology, Muscle physiology, Circulatory system, Blood physiology, Respiratory system physiology, digestive system physiology, excretory system physiology, central nervous system physiology , endocrine system physiology.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO109	Basic First Aid	(2,2,3)	3	3	Compulsory Course
Importance and rules of first aid, crime scene management, disaster situations in society, causes, emerging problems and civil defense. Evaluation of the patient/injured, basic life support, first aid in injuries, first aid in bleeding, first aid in respiratory and circulatory system and first aid in shock extremity fractures and bleeding, first aid in vertebra, head, sternum fractures and bleeding, rescue and transportation methods. First aid in burns, electric shock, frostbite, heat stroke, food and chemical poisoning, animal bites, and other situations that require first aid.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO111	Basic Anatomy	(3,0,3)	3	4	Compulsory Course
Introduction to anatomy. Skeletal and muscular system anatomy: bone, muscle, joint and general information, upper and lower extremities. Respiratory system anatomy: thorax wall anatomy and diaphragm, nose and larynx trachea, lungs and pleura. Circulatory system: heart (atria and ventricles), pericardium, vessels. Digestive, excretory and reproductive systems: pharynx, esophagus and stomach, small and large intestines, liver, pancreas, spleen, kidneys, ureters-bladder and urethra-female and male genital organs. Nervous system: central nervous system-diencephalon and telencephalon-medulla spinalis morphology, brain sac- cerebellum and cranial nerves-autonomic nervous system. endocrine system. Sense organs: eye and visual pathways, ear, hearing and balance pathways.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO202	Public Health	(2,0,2)	2	3	Compulsory Course

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
Historical development of medicine, Basic health services, Health manpower, Health organization in Turkey and TRNC, Immune services, Basic nutrition, Health education, Worker and workplace health, Family planning, Medical ethics.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO204	Occupation Ethics	(3,0,3)	3	4	Compulsory Course

In this course, it is aimed to gain the competencies related to professional ethics. Examining the concepts of ethics and morality, Examining the ethical systems, examining the factors that play a role in the formation of morality, examining professional ethics, examining the consequences of professional corruption and unethical behaviors in professional life, examining the concept of social responsibility, Examining the concepts of ethics and health, Examining the concepts of ethics and culture.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO206	Health Services Administration	(2,0,2)	2	3	Compulsory Course

Management concept and processes. Turkish health system and its subsystems, aims, organizational structure, historical development, current situation, functioning, management and examination of the institutions and organizations that make up the system are examined.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SMO208	Rational Drug Use	(1,0,1)	1	1	Compulsory Course

Basic concepts of rational drug use, stakeholders in rational drug use, drug supply process in rational drug use, compliance, storage conditions of drugs, factors leading to irrational drug use.