

## FIRST AND EMERGENCY AID

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY102	Emergency Assistance Recovery Studies I	(2,2,3)	3	3	Compulsory Course

Emergency rescue course is one of the professional main courses of the program. The paramedic student will be explained the principles of rescue and transportation for the sick and injured that he will encounter in his professional life. Appropriate positioning of the patient and the injured, rescue and removal techniques, intervention techniques to the aggressive patient and crime scene management will be explained theoretically and practically. The evaluation of the course will be determined according to the student's attendance status together with the theoretical and practical midterm and final exam grades.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY103	Emergency Health Services	(2,0,2)	2	4	Compulsory Course

Evaluation of Health Services, Evaluation of Emergency Health Services, Evaluation of Ambulance and Emergency Medical Vehicles, Distinguishing Ambulance Equipment in Turkey, Evaluation of Emergency Service Structure and Operation in Turkey, Use of Forms in Turkey and TRNC Emergency Health Services, Paramedic Authorization Evaluation of duties and responsibilities, Organizing the task, Ensuring own safety, Ensuring patient/injured safety, Providing communication in ambulance and emergency health services

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY104	Ambulance Service Training I	(2,2,3)	3	3	Compulsory Course

Modern First Aid Vehicles and Ambulances, Patient or Injured Transport and Transport, Using Stretcher and Other Equipment, Records, Reports and Records Used in Ambulance, Approach and Communication to Patients in Ambulances, Call Reception and Call Forwarding, Command Control Center, Triage Applications, Air and Sea Ambulances, Protective Equipment Used in Ambulances, Infection Control, Ambulance Equipment and Disinfection, Approach to Forensic Cases

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY105	Emergency Patient Care I	(4,4,6)	6	8	Compulsory Course

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
<p>Basic concepts in emergency health care. Making the first evaluation of the patient or injured, Evaluating vital signs, Opening vascular access and blood collection, Gaining basic interventional skills, Making the second evaluation of the patient or injured, Applying the secondary evaluation techniques, Basic life support in children and adults, measurement of vital signs, patient monitoring , airway techniques, ventilation and oxygen support, vascular access, intraosseous access and blood collection techniques and drug administration techniques, triage, field management, basic ECG concepts Evaluating respiratory system diseases, Applying emergency care in respiratory distress, Evaluating cardiovascular system diseases, Chest Applying emergency care to patients with pain, Evaluating nervous system diseases, Applying emergency care in nervous system diseases.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY106	Emergency Patient Care II	(4,4,6)	6	6	Compulsory Course
<p>Triage, diagnosis, determination of treatment priorities and application principles. Recognition of rhythm disorders in EKG, child and advanced life support, approach and treatment of patients with chest pain, management of heart diseases, electrical treatments, approach to patients with abdominal pain, emergency interventional procedures, digestive system diseases, digestive system emergencies, urogenital system diseases, urogenital system diseases system emergencies, approach to intoxications, emergency approach to burn patients, management of diabetes-related diseases and neurological emergencies, monitoring and evaluating patient vitals, approach to fluid and electrolyte balance, emergency approach to acid-base imbalance, frequently used drugs in emergency patients.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY107	Physical education	(0,2,1)			Compulsory Course
<p>Movement training, tools and exercises in the vehicle, activities, practices; games. exercises and practices suitable for movement development; games. Special teaching methods of swimming education, steps in motor learning (methodical ways); ways to gain motor skills; ways to be followed in movement training; What are the fundamentals of teaching? Things to consider when preparing the annual plan of movement training (physical education) activity.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY108	Pharmacology	(4,0,4)	4	4	Compulsory Course

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
					General definition of pharmacology, branches of pharmacology, drug development stages, sources of drugs, drug administration routes, pharmaceutical forms, information about absorption, distribution, metabolism, elimination, what is the receptor and receptor types, mechanisms of action of drugs, dose-response relationship, factors that change drug effect, Undesirable effects of drugs, Drugs acting on the central nervous system, drugs acting on the autonomic nervous system, Drugs effective on CVS, Drugs acting on the endocrine system, autocooids and chemotherapeutic drugs.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY109	Physical Education	(0,2,1)			Compulsory- elective Course
					Movement training, tools and exercises in the vehicle, activities, practices; games. exercises and practices suitable for movement development; games. Special teaching methods of swimming education, steps in motor learning (methodical ways); ways to gain motor skills; ways to be followed in movement training; What are the fundamentals of teaching? Things to consider when preparing the annual plan of movement training (physical education) activity.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY109	Swimming	(0,2,1)			Compulsory- elective Course
					Swimming techniques, Discussing the effects of swimming sport on physical fitness parameters, Explaining the rules of personal hygiene and hygiene, Determining the beginning levels of the students, Doing water adaptation studies

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY110	Trauma	(2,0,2)	2	2	Compulsory Course
					Trauma mechanism, initial evaluation, primary and secondary examination, review of system traumas, wound repair principles. Emergency approach to multiple trauma patient, emergency approach to head trauma patient, emergency approach to cervical trauma patient, emergency approach to patient with thoracic trauma, emergency approach to patient with abdominal trauma, emergency approach to upper extremity traumas, emergency approach to lower extremity traumas, emergency approach to upper extremity artery and nerve injuries , approach to pediatric trauma patient, approach to burn patient, child abuse, elder abuse and forensic aspects of trauma, emergency approach to patients with vertebral trauma, emergency approach to penetrating injuries.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY201	Emergency Patient Care III	(4,4,6)	6	8	Compulsory Course

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
Pre-hospital emergency care, emotional stress in emergency caregivers, vital signs, primary and secondary evaluation of the patient, cardiopulmonary resuscitation, foreign body aspiration, respiratory emergencies, chest traumas, abdominal and genital injuries. Geriatric diseases and emergencies, Oncological emergencies, Approach to the patient with multi trauma, Approach to the patient with head trauma, Approach to the patient with vertebra trauma, Approach to the patient with thoracic trauma, Approach to the patient with abdominal trauma, Approach to the patient with extremity trauma, Emergency approach to the patient with vascular and nerve injury, Vascular access practice practice, vital signs, approach to the aggressive patient and psychiatric emergencies.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY203	Emergency Assistance Recovery Studies II	(2,2,3)	3	3	Compulsory Course
Rescue and transport principles for patients and rescuers. Positioning the patient and the injured appropriately, rescue and removal intervention, aggressive response intervention and crime scene management					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY205	Ambulance Service Training II	(2,2,3)	3	3	Compulsory Course
Clinical scenarios and ambulance usage application of ambulance and its equipment. Modern First Aid Vehicles and Ambulances, Patient or Injured Transport and Transport, Using Stretcher and Other Equipment, Records, Reports and Records Used in Ambulance, Approach and Communication to Patients in Ambulances, Call Reception and Call Forwarding, Command Control Center, Triage Applications, Air and Sea Ambulances, Protective Equipment Used in Ambulances, Infection Control, Ambulance Equipment and Disinfection, Approach to Forensic Cases.					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY207	Resuscitation	(4,2,5)	5	5	Compulsory Course
Giving the diagnosis, treatment priorities and application principles in the critical patient group. Bleeding control, shock, poisoning, acid-base balance, burns, resuscitation principles in special cases will be explained. All algorithms paramedic student should know AHA 2015 basic life support algorithm, AHA					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
					2015 basic life support in special situations, ECG, Acute Coronary Syndromes, AHA 2015 advanced cardiac life support algorithm, Defibrillation, Cardiac Pacemaker Application, Airway Opening and Ventilation, Cardiac Monitorization, AHA 2015 advanced cardiac life support algorithm in special cases, Post-Resuscitation Care.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY211	Advanced Life Support Practice I	(2,8,6)	6	7	Compulsory Course
					What is advanced life support applications, expansion opening, evaluation, materials used, endotracheal intubation, ECG, rhythm definition in cardiac arrest, overview of rate rhythms, AHA 2015 guideline hysteresis explanations, AHA 2015 guideline tachycardia, AHA 2015 guideline bradycardia, AHA 2015 guideline pediatric hysteresis application, AHA 2015 guideline special chapters iKYD applications, the use of other material equipment in ikyd applications, what is defibrillation, its applications.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
İAY212	Advanced Life Support Practice II	(0,10,5)	5	7	Compulsory Course
					By rotating between the emergency service, intensive care unit, delivery room, triage and ambulance service, in cases where first intervention is required in the field, resuscitation and airway opening are required to the patient or injured, providing the necessary intervention, selection of the right drug and interventional procedure, and team understanding, accompanied by up-to-date information and guidelines. .

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, 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
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
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

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					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.