

TOKAT GAZİOSMANPAŞA UNIVERSITY

TOKAT HEALTH CARE SERVICES VOCATIONAL SCHOOL

DEPARTMENT OF MEDICAL SERVICES AND TECHNIQUES

OPERATING ROOM SERVICES PROGRAM

(4-SEMESTER COURSE PLAN)

1st Semester (Fall Semester) Course Plan

Course Code	Course Title	C/E	Theory	Practice	ECTS
AHZ119	Operating Room Technologies	Compulsory	3	0	4
AHZ103	Surgical Diseases I	Compulsory	4	0	6
AlİT101	Atatürk's Principles and History of Turkish Revolution I	Compulsory	2	0	2
TD101	Turkish Language I	Compulsory	2	0	2
İNG101	Elective Foreign Language I	Compulsory	2	0	2
SEÇ101	Elective Courses	Compulsory	2	0	2
ANA101	Anatomy	Compulsory	2	0	3
FLZ101	Physiology	Compulsory	2	0	3
TRM101	Medical Terminology	Compulsory	2	0	3
MLK101	Microbiology	Elective	2	0	3
	TOTAL		23	0	30

Elective Courses

Course Code	Course Title	C/E	Theory	Practice	ECTS
AKY101	Disaster and Crisis Management	Elective	2	0	2
KHB101	Chronic Diseases	Elective	2	0	2
ARŞ101	Scientific Research Techniques	Elective	2	0	2
ÇEV101	Environmental Health	Elective	2	0	2
DAV101	Behavioral Sciences	Elective	2	0	2
DKM101	Medical Documentation	Elective	2	0	2
HUK101	Health Law	Elective	2	0	2
İLT101	Communication	Elective	2	0	2
İMH101	Immunohistochemistry	Elective	2	0	2
İSG101	Occupational Health and Safety	Elective	2	0	2
KMY101	Current Chemicals and Drugs	Elective	2	0	2
PSK101	Healthcare Worker and Patient Psychology	Elective	2	0	2
RDY101	Radiation Protection	Elective	2	0	2
SSH101	Systemic Diseases	Elective	2	0	2
STT101	Special Cytotechnology	Elective	2	0	2
TAY101	Medical Waste Management	Elective	2	0	2

2nd Semester (Spring Semester) Course Plan

Course Code	Course Title	C/E	Theory	Practice	ECTS
AHZ122	Fundamentals of Operating Room Practice	Compulsory	2	4	7
AlİT102	Atatürk's Principles and History of Turkish Revolution II	Compulsory	2	0	2
TD102	Turkish Language II	Compulsory	2	0	2
İNG102	Elective Foreign Language II	Elective	2	0	2
SEÇ104	Elective Courses	Elective	2	0	2
ENF100	Information Technologies and Office Software	Compulsory	2	0	3

AHZ116	Surgical Diseases II	Compulsory	4	0	6
KRY102	Career Planning	Compulsory	1	0	2
AHZ126	Sterilization and Disinfection	Compulsory	2	0	2
AHZ124	Communication in Health Services	Compulsory	2	0	2
	TOTAL (as stated in source)		21	4	7

3rd Semester (Fall Semester) Course Plan

Course Code	Course Title	C/E	Theory	Practice	ECTS
AHZ211	Operating Room Practice I	Compulsory	0	16	18
ILK213	First Aid	Compulsory	2	0	3
ENF201	Infectious Diseases	Compulsory	2	0	3
AHZ203	Surgical Diseases III	Compulsory	4	0	6
	TOTAL		8	16	30

4th Semester (Spring Semester) Course Plan

Course Code	Course Title	C/E	Theory	Practice	ECTS
AHZ212	Operating Room Practice II	Compulsory	0	16	18
AHZ204	Basic Anesthesia	Compulsory	2	0	6
MES202	Professional Ethics	Compulsory	2	0	3
FAR201	Pharmacology	Compulsory	2	0	3
	TOTAL		6	16	30

COURSE CONTENTS

AlİT101	ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	Compulsory	2	0	2
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Basic concepts related to the course and the Principle of Reformism: reform, revolution, evolution, improvement/reform, rebellion and coup. Internal causes of the decline of the Ottoman Empire: problems in state administration, education, economy and general morality. External causes: colonialism, Industrial Revolution and imperialism; ambitions of Western states regarding the Ottoman Empire, the Eastern Question and partition projects. Basic concepts of the modern world: Enlightenment, democracy, secularism, nationalism, liberalism and socialism. Modernization movements in the Ottoman Empire: Tulip Era; reforms of Selim III and Mahmud II; Tanzimat and Reform Era; Young Ottomans and constitutional movements. Intellectual movements in the late Ottoman period: Westernism, Ottomanism, Islamism and Turkism. Collapse of the Ottoman Empire: Tripolitanian and Balkan Wars, World War I and the Armenian issue; Armistice of Mudros and subsequent occupations. National Struggle: proposed solutions, peaceful and mandate views, regional resistance, national associations and National Forces; Atatürk's arrival in Anatolia, congresses and organization; Chamber of Deputies, National Pact and occupation of Istanbul; opening and characteristics of the Grand National Assembly of Türkiye.

İNG101	ENGLISH I	Compulsory	2	0	2
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Verb to be; subject pronouns; possessive adjectives; possessive 's; personal information, introducing yourself and family words; greetings and expressions for short everyday conversations; Simple Present Tense; adverbs of frequency; object pronouns; noun plurals; telling the time; have got/has got; linking words (and, so, but, because); there is/there are; prepositions (in, on, under, next to); adjectives of quantity (some, any, a lot of, lots of, many, much); demonstrative adjectives and pronouns; adjectives for good and bad; adverb + adjective; numbers and prices; can/can't; was/were/could; Simple Past Tense.

TD101	TURKISH LANGUAGE I	Compulsory	2	0	2
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Introduction to the content and resources of Turkish Language. Definition and characteristics of language; language-culture relationship and language as a carrier of culture; spoken and written language; world languages, language families and the place and characteristics of Turkish among them; historical development of Turkish and alphabets used by Turks; term research topic; Atatürk's views on language, the Sun Language Theory and his ideas on Turkish; spelling rules, spelling of certain suffixes and particles, proper nouns, numbers and loanwords, capitalization; punctuation and its importance; sentence meaning and interpretation; declarative, interrogative and exclamatory sentences; paragraph, main idea, paragraph types, content and supporting ideas; official correspondence including petitions, minutes, reports, business letters and notices; sentence elements and their correct use; expression errors at word and sentence level and examples; communication problems caused by language errors.

ANA101	ANATOMY	Compulsory	2	0	3
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Introduction to anatomy: general concepts and terms. Introduction to the locomotor system; osteology, arthrology and myology. Cardiovascular system. Respiratory system. Nervous system. Digestive system. Urogenital system. Endocrine system. Sense organs. General evaluation.

FİZ101	PHYSIOLOGY	Compulsory	2	0	3
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Physiological concepts and homeostasis. Cell membrane and membrane transport. Muscle physiology I-II. Nervous-system physiology I-IV. Blood physiology I-II. Circulatory-system physiology I-III. Pain physiology.

AHZ103	SURGICAL DISEASES I	Compulsory	4	0	6
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Definition and history of surgery. Basic concepts used in surgery: homeostasis, stress and pain. Classification of surgery. Fluid-electrolyte and acid-base imbalances in surgery. Tissue injury and types of wounds. Wound healing. Surgical techniques and instruments. Preoperative and postoperative processes. Complications encountered in surgery. Surgical-site infections. Infection control in the operating room. Radiation safety for operating-room personnel and safe surgery.

AHZ119	OPERATING ROOM TECHNOLOGIES	Compulsory	3	0	4
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Physical structure of the operating room and safety precautions. Sutures used in the operating room. Gases used in the operating room. Operating-room textiles and consumable materials. Surgical instruments. Clean-air technology. Operating table and positions. Electrocautery devices, vacuum systems and aspirators. Monitors and endoscopic imaging systems. Sterilization methods used in the operating room. Records and documentation.

TRM101	MEDICAL TERMINOLOGY	Compulsory	2	0	3
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Introduction to medical terminology. Pronunciation rules. Basic word structure and roots. Prefixes and suffixes. Eponyms and acronyms. Basic terms related to movement and circulation. Basic terminology related to the respiratory, nervous, digestive and endocrine systems. Basic terminology related to sense organs. General health terminology in pharmacology, radiology and public health.

MİK101	MICROBIOLOGY	Compulsory	2	0	3
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Introduction to and history of microbiology. Taxonomy and nomenclature of microorganisms. Bacteria and their characteristics I-III. Nutrition and cultivation of microorganisms. Microbial genetics. Effects of the external environment on microorganisms. Viruses, fungi and parasites: characteristics and control methods. Relationships among microorganisms, environment and organisms. Chemotherapeutic agents.

AlİT102	ATATÜRK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	Compulsory	2	0	2
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The source document presents the same detailed content as AlİT101: basic concepts related to reformism; internal and external causes of Ottoman decline; modern-world concepts; Ottoman modernization movements; late Ottoman intellectual movements; collapse of the Ottoman Empire; and the National Struggle through the opening and characteristics of the Grand National Assembly of Türkiye.

İNG102	ENGLISH II	Compulsory	2	0	2
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Simple Past Tense. Conjunctions (when, however, until, although). Describing feelings and adjectives ending in -ed/-ing. Time expressions (in/on/at). Definite and indefinite articles (a/an/the). Adverbs. Countable and uncountable nouns; adjectives of quantity; how many/how much; too many/too much. Like/would like. Comparative and superlative adjectives. Directions. Verb patterns (infinitives and gerunds). Relative pronouns. Present Continuous Tense. Be going to. Present Perfect Tense.

TD102	TURKISH LANGUAGE II	Compulsory	2	0	2
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Types of written expression. How to prepare and write an article; reading sample articles; preparing an article on language awareness, language pollution and Atatürk's understanding of language. Essay, criticism, column and interview; characteristics and examples. Narrative writing: short story and novel, with examples from Turkish and world literature. Poetry and examples from Turkish literature. Travel writing, memoir and diary. Letters and electronic correspondence. Oral-expression types: conference, symposium, congress and interview. Discussion-based expression: panel, forum and open session. Scientific research methods: selecting and delimiting a topic, preparing a plan, literature review, reporting results, citation and footnotes. Introducing periodicals, books and encyclopedias about language and culture; use and social importance of libraries; accessing information electronically; media literacy.

AHZ116	SURGICAL DISEASES II	Compulsory	4	0	6
Surgery of nervous-system diseases. Surgery of respiratory-system diseases. Cardiac surgery. Surgery of peripheral vascular diseases. Surgery of digestive-system diseases. Musculoskeletal-system surgery. Surgery of urogenital-system diseases. Obstetric and gynecological surgery.					
AHZ122	FUNDAMENTALS OF OPERATING ROOM PRACTICE	Compulsory	2	4	7
Operating-room orientation and terminology. Physical structure of the operating room. Duties of circulating and scrub nurses I-III. Scrub duties include preparation for surgical handwashing, surgical handwashing, donning sterile gloves and gowns, preparing the sterile surgical table, gowning the surgical team, draping the patient, instrumentation, patient dressing and material counts. Circulating duties include temperature and humidity control, operating-room cleaning and device checks, and ensuring that drapes, gowns, appropriate surgical sets and required consumables are available. Risks and hazards threatening patient and healthcare-worker safety. Safe surgery, admission and preparation of the patient. Positions and positioning. Consumables, operating-room textiles, green drapes, gown folding, types of sutures and needles, suturing techniques, surgical instruments and medical devices. Case completion and recording patient specimens and the consumable-material form.					
ENF100	INFORMATION TECHNOLOGIES AND OFFICE SOFTWARE	Compulsory	2	0	3
Computer hardware structure and units. Shortcuts, general Windows operations, internet and e-mail. Word processing: File and Home; Insert, Draw, Design and Layout; References, Mailings, Review and View; scientific writing rules and general practice. Presentation software: File, Home, Insert, Draw, Design and Transitions; Animations, Slide Show, Record, Review and View; general practice. Spreadsheets: File, Home, Insert and Page Layout; Formulas; Data, Review, View and Automate; general practice.					
TOGÜ0941	OUR VALUES	Elective	2	0	2
Definition, importance and scope of values education; helpfulness, love, tolerance, sensitivity, honesty, valuing family unity, responsibility, justice, diligence, respect, thrift, patriotism and general review.					
KRY102	CAREER PLANNING	Compulsory	1	0	2
General introduction to the course and the concept of career. National and international exchange programs. Basic communication skills. Review of relevant resources. Sector days: non-governmental organizations, public sector, private sector, academia and entrepreneurship. Soft skills. Diction and body language. Preparing a CV and cover letter. Effective interview techniques. Course evaluation and project details.					
AHZ124	COMMUNICATION IN HEALTH SERVICES	Compulsory	2	0	2
Definition, models and classification of communication. Types of communication: verbal, nonverbal and written. Communication skills. Communication with patients and their relatives. Interpersonal communication barriers. Communication with individuals with disabilities. Communication in special situations. Importance of communication in health services. Healthy communication with patients. Importance of healthcare workers' communication styles and self-awareness. Recommendations for healthy communication. Rules regulating human relations.					
AHZ126	STERILIZATION AND DISINFECTION	Compulsory	2	0	2
Introduction to sterilization and disinfection. Central Sterilization Unit (CSU), CSU team, duties, responsibilities, clothing and health checks. Cleaning the CSU; delivery of contaminated instruments; precautions for extraordinary situations. Hospital infections and isolation precautions. Packaging. Asepsis. Decontamination. Selection of sterilization and disinfection. Disinfection, chemical solutions and applications. Sterilization methods and monitoring of sterilization stages. Storage and shelf life of sterile materials. Medical-waste management. Record system.					
AHZ211	OPERATING ROOM PRACTICE I	Compulsory	0	16	18
Nervous-system surgery; physical structure of the operating room; respiratory-system surgery; duties of circulating and scrub nurses, including surgical handwashing, sterile gowning and gloving, sterile-table preparation, gowning the surgical team, patient draping, instrumentation, dressing and material counts; circulating duties including temperature/humidity control, cleaning and device checks and preparation of drapes, gowns, surgical sets and consumables. Cardiac surgery. Peripheral vascular surgery. Positions and positioning. Digestive-system surgery. Musculoskeletal-system surgery. Suture and needle characteristics and suturing techniques. Urogenital-system surgery. Introduction to surgical instruments. Obstetric and gynecological surgery.					
AHZ203	SURGICAL DISEASES III	Compulsory	4	0	6
Ear, nose and throat surgery. Ophthalmic surgery. Endocrine-system surgery. Breast surgery. Pediatric surgery. Burn and reconstructive surgery. Microsurgery. Tissue and organ transplantation surgery.					
İLK213	FIRST AID	Compulsory	2	0	3
Knowledge of basic first-aid practices. Performing primary and secondary assessment of the patient/injured person. Correctly applying basic life support to infants, children and adults on a mannequin. Correctly performing techniques for airway obstruction. Applying first-aid measures for bleeding. Correctly positioning a person for shock. Providing first aid for injuries and applying first-aid interventions for fractures, dislocations and sprains on a mannequin. Distinguishing changes in level of consciousness. Providing first aid in poisoning. Knowing methods for rescuing and transporting injured persons.					
ENF201	INFECTIOUS DISEASES	Compulsory	2	0	3
Introduction to infectious diseases. Characteristics of infectious agents. Immunization for prevention of infection. Hospital infections and isolation precautions. Diseases transmitted through the digestive tract. Respiratory-transmitted diseases. Infectious diseases transmitted through the skin and mucosa. Sexually transmitted infectious diseases. Zoonotic infectious diseases.					
AHZ212	OPERATING ROOM PRACTICE II	Compulsory	0	16	18
Ear, nose and throat surgery. Physical structure of the operating room. Ophthalmic surgery. Duties of circulating and scrub nurses, including surgical handwashing, sterile gowning and gloving, sterile-table preparation, gowning the surgical team, patient draping, instrumentation, dressing and material counts; circulating duties including temperature/humidity control, cleaning and device checks, and preparation of drapes, gowns, appropriate surgical sets and consumables. Endocrine-system surgery. Breast surgery. Positions and positioning. Pediatric surgery. Burn and reconstructive surgery. Suture and needle characteristics and suturing techniques. Microsurgery. Introduction to surgical instruments. Tissue and organ transplantation surgery.					
MES202	PROFESSIONAL ETHICS	Compulsory	2	0	3
Examining the concepts of ethics and morality. Examining ethical systems. Examining factors involved in the formation of morality. Examining professional ethics. Examining					

professional degeneration and the consequences of unethical behavior in professional life. Examining the concept of social responsibility.
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AHZ204	BASIC ANESTHESIA	Compulsory	2	0	6
Introduction to anesthesiology. Operating room, intensive care and devices used. Anesthesia auxiliary equipment. Anesthesia machine and equipment. Monitoring. Anesthesia applications and monitoring. General evaluation. Anesthesia management. General anesthesia and pharmacological agents. Drug calculations. Patient positions and risks in anesthesia. Anesthesia applications outside the operating room. General evaluation.					

FAR201	PHARMACOLOGY	Compulsory	2	0	3
Introduction to pharmacology and basic concepts. Routes of drug administration. Rational drug use. Drugs used against harmful microorganisms. Antiseptics and disinfectants. Autonomic nervous system and related drugs. Cardiovascular drugs. Drugs affecting the central nervous system and anesthesia-specific topics. Analgesic and anti-inflammatory drugs. Drugs and nutritional supplements affecting striated muscles and the locomotor system. Drugs used in emergency intervention and their characteristics. Digestive-system drugs. Respiratory-system drugs. Poisoning.					

Note: The English version follows the course codes, compulsory/elective status, theory/practice hours, ECTS values and course-content associations exactly as presented in the source PDF. Apparent inconsistencies in the source were not silently corrected.