

REPUBLIC OF TURKEY
MALTEPE UNIVERSITY FACULTY OF MEDICINE
2022 - 2023 ACADEMIC CALENDAR PHASE I PROGRAM
OUTLINE and HOURS

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks
MED 101	Basic Sciences I Subject Committee	73	7	80	7
MED 103	Basic Sciences II Subject Committee	73	8	81	6
MED 102	Basic Sciences III Subject Committee	162	32	194	12
MED 104	Basic Sciences IV Subject Committee	107	25	132	10
ENG 115	Medical English-I	42	0	42	14
ENG 116	Medical English-II	42	0	42	14
ATA 151	Principles Of Atatürk and History Of Revolution-I	28	0	28	14
ATA 152	Principles Of Atatürk and History Of Revolution-I I	28	0	28	14
TRD 151	Turkish Language-I	28	0	28	14
TRD 152	Turkish Language-II	28	0	28	14
	Elective Course-I (Fall Semester)	28	0	28	14
	Elective Course-II (Fall Semester)	28	0	28	14
	Elective Course-III (Spring Semester)	28	0	28	14

TH:Theoretical Hours; PH:Practical Hours

COMMITTEE 1

BIOCHEMISTRY

Introduction to Biochemistry
 Structure and feature of water
 Solutions and concept of concentration
 Acids and Bases and pH
 Amino acids
 Structure and Functions of Proteins
 Structure and Functions of Vitamins and Coenzymes
 Structure and Functions of Proteins
 Minerals and Trace Elements

HISTORY OF MEDICINE

The Meaning of History of Medicine, Medicine in Prehistorical Periods
 Medicine in the Ancient Ages
 Medicine in the Middle Ages
 Turkish Medicine from the Beginning to the Ottoman Period
 Turkish Medicine in the Ottomans and in the Turkish Republic Period
 Western Medicine from Renaissance to today

MEDICAL BIOLOGY

Introduction to Medical Biology
 Biomolecules and Evolution
 Structure and Functions of Nucleic Acids
 Chromosome Structure and Epigenetics
 DNA Replication
 Cytogenetics
 DNA Damage and Repair Mechanisms

ORGANIC CHEMISTRY

Carbon Atom and Hybridisation
 Organic Reaction Types and Forms
 Alcohol and Esters
 Aliphatic Organic Compounds
 Aromatic Organic Compounds
 Sulfur Compounds
 Carboxylic Acids and Derivatives
 Stereoisomerism
 Amines and Related Nitrogenous Compounds
 Aldehydes and Ketones

PHYSICS

Introduction to Biophysics
 Measurement
 Waves: Longitudinal and Standing Waves
 Fluids
 Electrical Field and Dipole
 Molecular Forces



Effects of Electrical Current on Body
Optics and Optical Medical Instruments

COMMITTEE 2

BEHAVIOURAL SCIENCE

Psychoanalytic Theory
Stress and Adaptation
Disease, Health and Normality
Patient-Doctor Relationship
Defense Mechanisms
Biopsychosocial Model

BIOCHEMISTRY

Biological Oxidation, Bioenergetics and ATP
Introduction to Enzymes and Kinetics
Biosynthesis and Post-translational Modifications of Proteins
Protein Targeting
Protein Turnover
Structure and Functions of Carbohydrates
Structure and Functions of Lipids
Structure and Functions of Nucleotides

BIOPHYSICS

Biomechanics: Vectors
Biomechanics: Torque and Rotational Movement
Biomechanics: Elastic Properties of Tissues
Imaging Techniques and Principles (Ultrasound and NMR)
Heat, Thermodynamics and Bioenergetics
Principles of Recording Biomedical Signals

MEDICAL BIOLOGY

Transcription
Genetic Code and Protein Synthesis
Regulation of Gene Expression
Regulation of Gene Activity in Prokaryotes
Regulation of Gene Activity in Eukaryotes
Molecular Basis of Genetic Variation
Immunogenetics

COMMITTEE 3

ANATOMY

Introduction to Anatomy, Important Anatomical Terms
Bones of Upper Limb
Bones of Lower Limb
Thorax and Ribs
Vertebrae and Vertebral Column
Skull
Splanchnocranium
Neurocranium, Cranial Cavity
Temporal, Infratemporal and Pterygopalatine Fossae

BEHAVIOURAL SCIENCE

Cognition and Emotions
Thinking, intelligence and learning
Sexuality
Culture and Disease
Violence
Adulthood
Personality Process
Aging

BIOCHEMISTRY

Biomembrane Components and Transport I
Biomembrane Components and Transport II
Glycolysis
Glycogen metabolism
Gluconeogenesis
Metabolism of monosaccharides other than glucose
Citric acid cycle
Respiratory chain
Pentose phosphate pathway
Glucuronic acid metabolism
Regulation of blood glucose
Biosynthesis of lipids



Lipid Catabolism

BIOPHYSICS

Diffusion and Fick's Law

Gibbs-Donnan Equilibrium

Nernst Equilibrium

Generation of Membrane Potential

Kinetics of the Voltage Gated Channels

Action Potential

Membrane Potential Changes Induced by Subthreshold Stimulus

Compound Action Potential

BIOSTATISTICS

Definition and Use of Biostatistics

Descriptive Statistics

Tables and Graphics

Types and Sources of Data

Demographic and Morbidity Statistics

HISTOLOGY

Introduction to Histology: Histochemical Technics and Basic Principles

Introduction to Embryology

Microscopy

Basic Techniques for Microscopy

Cell Structure 1: Plasmalemma

Cell Structure 2: Organelles & Inclusions

Cell Structure 3: Organelles & Inclusions

Cell Structure 4: Cytoplasm

Cell Structure 5: Cytoskeleton

Cell Structure 6: Nucleus

Stem Cells

Epithelial Tissue

Fertilization

Gametogenesis

Early Embryological Period: First Week

MEDICAL BIOLOGY

Prokaryotic, Eukaryotic Cells

Cytoplasm and Cellular Organelles

Nuclear Transport

Cell Cycle and Its Regulation

Cell Division and Gametogenesis

Cellular Aging

Cell Death

Signal Transduction

Molecular Basis of Cancer

Cell Culture

Stem Cells

Recombinant DNA Technology and Its Applications

MEDICAL MICROBIOLOGY

Introduction to Microbiology

Eucaryotes and Procaryotes

Bacterial Morphology and Classification

Bacterial Metabolism

Bacterial genetics

Bacterial growth

Microbiota-Sampling for Microbiology

Viral Classification, Structure and Replication

Fungal classification, structure and general properties

Parasitic Classification, Structure and General Properties

Disinfection and Sterilization

Introduction to Immunology

PHYSIOLOGY

Volume and Composition of Body Fluids

Homeostasis

Cell Membrane and Transport of Substances Across the Cell Membrane

Bioelectric Potentials

Capillary Fluid Exchange

COMMITTEE 4

ANATOMY

Body Joints in General

Joint Types
Axial Scleron Joints
Appendicular Scleron Joints
Introduction to Myology
Pectoral Region and Superficial Back Muscles
Superficial Muscles of Back and Neck
Deep Muscles of Back and Neck
Shoulder Muscles
Axillary Region
Anterior Group (Flexor) Arm Muscles
Posterior Group (Extensor) Arm Muscles
Hand Anatomy
Plexus Brachialis
Gluteal Region and Hip Muscles
Anterior, Lateral and Medial Region of Thigh
Posterior Thigh Muscles, Popliteal Fossa
Leg Anterior Muscles
Leg Lateral Muscles
Leg Posterior Muscles
Foot Anatomy
Foot Anatomy
Anterior and Lateral Neck

BEHAVIOURAL SCIENCE

Verbal and non-verbal communication and empathy
Application: Verbal and non-verbal communication and empathy
Biological Foundations of Behaviors
Psychological Foundations of Behaviors
Suicide

BIOCHEMISTRY

Connective Tissue Biochemistry

BIOPHYSICS

Radioactivity and Types of Radioactive Decay
Interferation of Radioactive Beams with Materials
Radioactivity Units and Protection from Radiation
Effects of Non-iodised Radiation
Biological Effects of Radiation
Production of X-Rays
PET and Computerised Tomography
Laser Beams and it's used in Medicine

HISTOLOGY

Connective Tissue
Cartilage Tissue
Bone Tissue
Osteogenesis
Muscle Tissue
Development and Histology of Skin
Formation Of Bilaminar Embryonic Disc: Second Week
Formation Of Germ Layers and Early Tissue and Organ Differentiation: Third Week
Plasenta and Fetal Membranes
The Fetal Period: Ninth Week To Birth
Congenital Malformations and Birth

MEDICAL BIOLOGY

Mendelian Genetics
Inheritance Patterns of Monogenic Diseases
Beyond Mendel's Laws
Non-Mendelian Inheritance
Population Genetics

PHYSIOLOGY

Striated Muscles and Contraction Theories
Striated Muscles and Mechanical Features
Physiology of Smooth Muscles
Nerve Muscle Junction
Synaptic Transmission and Reseptors
Otonomic Nervous System
Periferical Nervous System Physiology
Spinal Reflexes

Year: 2023 – 2024 PHASE II
REPUBLIC OF TURKEY
MALTEPE UNIVERSITY FACULTY OF MEDICINE

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks
MED 208	Nervous System Subject Committee	109	28	137	8
MED 205	Blood, Circulation And Respiratory System Subject Committee	112	32	144	8
MED 207	Gastrointestinal System And Metabolism Subject Committee	104	23	127	7
MED 209	Endocrine And Urogenital System Subject Committee	94	21	115	6
MED 206	Biological Basis of Disease-I Subject Committee	90	6	96	6
ENG 215	Medical English-III	28	0	28	14
ENG 216	Medical English-IV	28	0	28	14
TKUG 253	Introduction to Human Sciences and Clinical Practice in Medicine	28	0	28	14
TKUG 254	Introduction to Human Sciences and Clinical Practice in Medicine	28	0	28	14
	Elective Course-I (Fall Semester)				
	Elective Course-II (Spring Semester)				

* Elective courses

COMMITTEE 1

ANATOMY

Introduction to Nervous System and Central Nervous System
Meninges, Cysterna subarachnoidalis, ventricles, CSF
Dura mater, sinuses
P.N.S. - Plexuses
P.N.S. - Cranial Nerves
P.N.S. - Autonomic Nervous System
Central Nervous System - Spinal Cord
Brain Stem
Cerebellum
Diencephalon
Limbic system
Telencephalon
Basal ganglia
Vessels of the Central Nervous System
The Ear
The Eyeball, The visual pathways

BIOPHYSICS

Passive Conduction in Nerves
Biophysical Characteristics of Sensory Receptors
Biophysical Basis of Electroencephalography
Biophysics of Vision
Biophysics of Hearing

HISTOLOGY

Histology of Nervous System
Development of Nervous System
Histology of Eye
Histology of Ear
Development of Eye
Development of Ear

MEDICAL MICROBIOLOGY

Laboratory diagnosis of bacterial diseases
Staphylococcus
Enterococcus and other Gram-positive cocci
Aerobic non-spore-forming gram-positive rods
Gram-negative cocci
Mycoplasma and Ureaplasma
Mycobacteria and lepra
The mechanism of bacterial pathogenesis
Streptococcus
Actinomycetes, Nocardia, Rhodococcus
Spirochetes
Rickettsia and Coxiella

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FAKÜLTE SEKRETERİ

Chlamydia and Chlamydomonas

PHYSIOLOGY

Sensory cortex

Motor cortex and pyramidal system

Basal ganglia

Cerebellum

Cerebral cortex and higher functions of the nervous system, learning and memory

Thalamus Functions

Limbic system

Physiology of Hearing

Limbic system

Cerebrospinal fluid

Cerebellum

Physiology of Vision

Sense of taste and smell

Physiology of Sleep

EEG

EEG

COMMITTEE 2

ANTOMY

Anatomy of Nose

Larynx

Trachea, Pericard, Lungs

Thoracic Wall and Mediastinum

Heart, Pericard

Diaphragm

Aorta (Ascending, Arch, Thoracic)

Abdominal Aorta

Arteries of Upper Limb

Arteries of Lower Limb

Veins

Lymphatic System

BIOCHEMISTRY

Blood Biochemistry

Blood Biochemistry

Heme Proteins

Heme Proteins

Structure and Functions of Hemoglobine

Structure and Functions of Hemoglobine

Structure and Metabolism of Erythrocytes

Structure and Metabolism of Erythrocytes

Blood Coagulation and Fibrinolysis

Blood Coagulation and Fibrinolysis

Biochemistry of Anemia

Biochemistry of Anemia

Biochemistry of Anemia

Biochemistry of Vascular Phenomena

Cardiac Muscle Metabolism

Cardiac Muscle Metabolism

BIOPHYSICS

Bioelectrical Processes in The Heart

Biophysical Basis of Electrocardiography

Basic Principles of Hemodynamics

Physiological Control Systems

Blood Pressure Control System

Modeling of Cardiovascular System

Dynamics of Respiratory System

HISTOLOGY

Blood

Hematopoiesis

Histology of Lymphoid System

Histology of the Heart

Development of the Heart & Vessels

Fetal Circulation

Histological Features of Vessels

Histology of Respiratory System

Development of Respiratory System

Immune System

MEDICAL MICROBIOLOGY

General properties of Enterobacteriaceae

Escherichia coli

Klebsiella, Proteus and Yersinia

Salmonella and Shigella

Pseudomonas and other non-fermentatives

Vibrio

Bordetella

Haemophilus

Campylobacter and Helicobacter

Francisella – Legionella

Brucella

Anaerobic bacteria

Clostridiaceae

PHYSIOLOGY

Functions and Physical Properties of Blood

Production and Regulation of Blood

Physiological Properties of Erythrocytes

Blood Groups And Transfusion

Functions of Leucocytes

Functions of Thrombocytes and Coagulation

Regulation of Respiration

Transport of Gases in the Blood

Regulation of Respiration

Physiologic properties of Cardiac Muscle

Regulation of Heart Functions

Blood Pressure

Regulation of Heart Functions

ECG

Cardiac Valve Functions and Heart Sounds

Pathophysiology of Circulatory System

Introduction to Respiratory Physiology

Ventilation / Perfusion Relationship

COMMITTEE 3

ANTOMY

Oral Cavity

Salivary Glands, Teeth

Pharynx, Esophagus

Peritoneum

Stomach

Small and Large Intestine

Muscles of Posterior Abdominal Region

Anterolateral Group of Abdominal wall muscles, Inguinal Canali Femoral Canal, Hernias

Pancreas, Spleen

Liver, Gallbladder and Biliary Ducts

BIOCHEMISTRY

Carbohydrate Metabolism

Lipids and Lipoprotein Metabolism

Introduction to Amino Acids Metabolism

Biological Amines and Endogen Amino Acids

Nutrition Biochemistry, Energy And Activity

Ammonia Metabolism

Special Metabolic Pathways of Amino Acids

Metabolism of Nucleotides

Physiological Buffering Systems

Catabolism of Carbon Skeleton of Amino Acids

Special Metabolic Pathways of Amino Acid

Metabolism of Inorganics

Porphyrins and Bile Pigments

Biochemical Importance of Vitamins

Digestion and Absorption of Nutrients

Nutrition Biochemistry, Energy And Activity

Porphyrins and Bile Pigments

Metabolism of Alcohol and Detoxification Mechanisms

HISTOLOGY

Histology of Upper Digestive System



Histology of Lower Digestive System
Gastrointestinal System Associated Glands
Development of Digestive System
Development of gastrointestinal glands

MEDICAL MICROBIOLOGY

The mechanism of viral pathogenesis
Herpesviruses
Poxviruses and Picornaviruses
Adenoviruses
Parvoviruses - Reovirus
Papovaviruses
Paramyxoviruses
Orthomyxoviruses
Coronaviruses and noroviruses
Orthomyxoviruses
Hepatitis viruses
Retroviruses and HIV
Rhabdoviruses
Togaviruses, Flaviviruses, Bunyaviruses
Slow virus infections and prions
Viruses and carcinogenesis
Laboratory diagnosis of viral infections

PHYSIOLOGY

Introduction to Physiology of Digestion, Oral Digestion and Deglutition
Gastric Digestion
Digestion in Small and Large Intestines
Exocrine Function of the Pancreas
Function of the Liver and the Role of Bile in Digestion
Gastrointestinal Hormones
Gastric and Intestinal Tract Absorption
Body Temperature Regulation
Basal Metabolic Rate, Balanced Diet, Hunger, Satiety

COMMITTEE 4

ANTOMY

Kidney
Ureter, Urinary Bladder
The Pelvis and Perineum
The Female Genital Organs
The Male Genital Organs
Endocrine Glands

BIOCHEMISTRY

Introduction to Hormones I
Introduction to Hormones II
Hypothalamic-Pituitary Hormones
Calcium-Phosphate Metabolic Hormones
Pancreas Hormones
Steroid Hormones
Catecholamines
Eicosanoids
Renin-Angiotensin-Aldosterone System
Thyroid Hormones

HISTOLOGY

Histology of Urinary Tract
Development of Urinary Tract
Histology of Female Reproductive System
Histology of Male Reproductive System
Development of Reproductive System
Histology of Endocrine System
Development of Endocrine Glands

MEDICAL MICROBIOLOGY

Superficial Mycoses
Subcutaneous Mycoses
Systemic mycoses
Opportunistic Mycoses
Intestinal and Urogenital Protozoa
Blood And Tissue Protozoa
Nematodes



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FAKÜLTE SEKRETERİ

Tremadotes

Cestodes

PHYSIOLOGY

General Consideration of Renal Physiology

Renal Glomerular Function

Renal Tubular Function

Acid-Base Balance

Clearance and Micturition

General Information About Hormones

Physiology Of The Pituitary And Hypothalamus Hormones

Thyroid Hormones Physiology

Physiology of Parathyroid Hormone and Calcitonin

Physiology of the Endocrine Functions of the Pancreas

Physiology of Adrenal Gland Hormones

Physiology of Male Reproductive System and Hormones

The Physiology of Adipose Tissue Hormones

Physiology of Female Reproductive System and Hormones

COMMITTEE 5

BIOCHEMISTRY

Introduction To Clinical Biochemistry and Instrumentation instrumentation

Clinical Biochemistry of Body Fluids

Factors Determining Enzyme Leakage into Blood

Free Radicals

Biochemistry of Aging

MEDICAL MICROBIOLOGY

Introduction to immunology

Innate immunity

Cytokines

Antigen presentation and recognition

Cell mediated immunity and effector mechanisms

Humoral immunity and effector mechanisms

Immunity to tumors

Transplantation immunology

Hypersensitivity disorders

Immunologic tolerance and autoimmunity

Immunodeficiencies

Vaccines

Immunologic laboratory techniques

PATHOLOGY

Introduction To Pathology

Cellular Responses to Stress and Noxious Stimuli

Adaptations of Cellular Growth and Differentiation

Cell Injury and Cell Death

Morphologic Alterations in Cell Injury

Mechanisms of Cell Injury

Ischemic and Hypoxic and Toxic Injury

Apoptosis

Intracellular Accumulations

Pathologic Calcification and Cellular Aging

Overview of Inflammation: Definitions and General Features

Acute Inflammation

Mediators of Inflammation

Chronic Inflammation

Injury and Tissue Repair

Immune System

Hemodynamic Disorders

PHARMACOLOGY

Introduction to Medical Pharmacology

Absorption of Drugs and Transport through Biological Membranes

The Dynamics of Drug Distribution

The Dynamics of Drug Metabolism

The Dynamics of Drug Elimination

Dose, Concentration-Effect Relationship

Drug Receptors and Pharmacodynamics

Mechanisms of Drug Action

Environmental Toxicology

Mechanisms of Drug Action

Factors Contributing to Variations in Drug Effects
Pharmacogenetics
Drug Side Effects
Drug-Drug Interactions
Routes of Drug Administration
Pharmaceutical Forms of Drugs
Pharmacovigilance
Principles of Prescription Writing

**PHASE III 2024-2025 ACADEMIC YEAR
REPUBLIC OF TURKEY
MALTEPE UNIVERSITY FACULTY OF MEDICINE**

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks	AKTS
MED 301	Biological Basis of Diseases II: Neoplasia and Hematopoietic System Subject Committee	58	4	62	4	56
MED 303	Biological Basis of Diseases III: Microorganisms and Diseases Caused Subject Committee	61	7	68	4	
MED 305	Circulation and Respiratory System Subject Committee	106	7	113	6	
MED 307	Gastrointestinal System Subject Committee	58	7	65	4	
MED 312	Urogenital and Endocrine System Committee	102	7	109	6	
MED 313	Neurological Sciences, Psychiatry and Musculoskeletal System Subject Committee	105	7	112	6	
MED 308	Public Health and Forensic Medicine Subject Committee	79	3	82	5	
ENG 315	Medical English-IV	28	0		14	2
ENG 316	Medical English-V	28	0		14	2

Hastalıkların Biyolojik Temeli II: Neoplazi ve Hemapoetik Sistem

BIOCHEMISTRY (BİYOKİMYA)

Biochemistry of Cancer
Biochemistry of Cancer
Biochemistry of Cancer
Biochemistry of Cancer
Tumor Markers
Tumor Markers

HEMATOLOGY (HEMATOLOJİ)

Hematopoietic System Diseases and Symptoms
Taking History and Physical Examination in Hematopoietic system
Hemolytic Anemia
Hemoglobinopathies and Thalassemia
Hematopoiesis And Pathophysiology Of Bone Marrow
Hematopoiesis And Pathophysiology Of Bone Marrow
Approach to the Patient with splenomegaly
Approach to Anemia
Approach to Anemia
Leukemia
Iron Deficiency Anemia
Megaloblastic Anemia
Common Laboratory Tests in Hematology
General Approach to Coagulation Disorders
General Approach to Coagulation Disorders
Clinical Approach to Hematologic Malignant Diseases
Lymphomas
Leukocyte Disorders
Hemophilia
Hemophilia
Approach to Patient with Lymphadenopathy
NUCLEAR MEDICINE (NÜKLEER TIP)
Measurement of Radiation, Dosimeters and Radiation Accidents
Nuclear Medicine in Oncology

MEDICAL GENETICS (TIBBİ GENETİK)

Genetics of Cancer
Genetics of Cancer
Chromosomal Abnormalities
Multifactorial Diseases
Monogenic and Mitochondrial DNA Diseases
Monogenic and Mitochondrial DNA Diseases

PATHOLOGY (PATOLOJİ)

Neoplasia: Nomenclature

Benign and malignant tumors

Carcinogenesis.
Carcinogenesis.
Metastasis
Red Blood Cell and Bleeding Disorders
Bone marrow pathology
Spleen and Thymus
Lymphadenitis
Lymphomas: Hodgkin
Lymphomas: Non-Hodgkin

M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ)

General Principles of Cancer Chemotherapy
Drugs Used in Cancer Chemotherapy
Drugs Used in Cancer Chemotherapy
Drugs Used in Cancer Chemotherapy
Immunomodulatory Drugs
Immunomodulatory Drugs
Drugs used for treatment of Anemias
Drugs used for treatment of Anemias
Hematopoietic Agents
Hematopoietic Agents
Histamine and Anti-histaminic Drugs
Eicosanoids and other Autocoids
Eicosanoids and other Autocoids
Peptide Structured Autocoids
Peptide Structured Autocoids

**YILDIZ TOMBUL
FAKÜLTE SEKRETERİ**

Hastalıkların Biyolojik Temeli III: Mikroorganizmalar ve Oluşturduğu Hastalıklar

INFECTIOUS DISEASES (ENFEKSİYON HAST. Ve Klinik Mikr.)

General Characteristics of Infectious Diseases
General Characteristics of Infectious Diseases
Control of Nosocomial Infections
Soft Tissue Infections
Soft Tissue Infections
Viral Hepatitis
Viral Hepatitis
Sexually transmitted infections
Sexually transmitted infections
Urinary Tract Infections
Nervous System Infections
Approach to Respiratory Tract Infections
Approach to Respiratory Tract Infections

PATHOLOGY (PATOLOJİ)

General Principles of Microbial Pathogenesis

General Principles of Microbial Pathogenesis
Pathology of bacterial Infections
Pathology of bacterial Infections
Pathology of viral diseases

Pathology of viral diseases

Pathology of Fungal and Parasitic Diseases
Pathology of Fungal and Parasitic Diseases

PEDIATRIC HEALTH (ÇOCUK SAĞLIĞI ve HASTALIKLARI)

The Viral Eruptive Diseases of Childhood
The Bacterial Eruptive Diseases of Childhood
The Upper Respiratory Tract Infections in Childhood
The Lower Respiratory Tract Infections in Childhood
Childhood Vaccines
National Vaccination Programme in Turkey
Diseases Prevented by Immunisation (Mumps, Poliomyelitis...)
Tuberculosis in Childhood

Circulation and Respiratory System Subject Committee

CARDIOLOGY (KARDİYOLOJİ)

History taking, symptoms and definitions in cardiovascular system
History taking, symptoms and definitions in cardiovascular system
Physical examination in cardiovascular system
Signs and symptoms of heart disease- Chest Pain-Cyanosis
Auscultation of heart sounds and murmurs
Signs and symptoms of heart disease- Dyspnea and Oedema
Electrocardiography uses and practice
Electrocardiography
Electrocardiography
Hypertension, clinics and laboratory findings
Measuring blood pressure and examination of the extremities
Electrocardiography
Electrocardiography
Tachyarrhythmias (supraventricular and ventricular arrhythmias)
Tachyarrhythmias (supraventricular and ventricular arrhythmias)
Atherosclerosis and Coronary artery disease definition and pathophysiology
Heart failure definition pathophysiology management
Stable angina pectoris Clinical manifestation and definition
Unstable Angina Pectoris and myocardial infarction
Unstable Angina Pectoris and myocardial infarction
Approach to Syncope

PEDIATRIC HEALTH (ÇOCUK SAĞLIĞI ve HASTALIKLARI)

M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ)

General Principles of Antimicrobial Therapy
General Principles of Antimicrobial Therapy
Penicillins
Penicillins
Other Beta-Lactam Antibiotics and Beta-Lactamase Inhibitors
Sulfonamides, Trimethoprim-sulfamethoxazole
Chemotherapy of Protozoal Infections
Chemotherapy of Helminth Infections
Antiviral Agents
Antiviral Agents
Macrolides
Lincosamides
Cephalosporins
Cephalosporins
Streptogramins, Oxazolidinones, Aminocyclitols, Polymyxins,
Glycopeptides, Lipopeptides, Bacitracin
Quinolones and Fluoroquinolones
Chemotherapy of Malaria
Chemotherapy of Malaria
Chemotherapy of Tuberculosis, Mycobacterium Avium Complex D
and Leprosy
Chemotherapy of Tuberculosis, Mycobacterium Avium Complex Dis
and Leprosy
Anti fungal drugs
Anti fungal drugs
Antianerobic and antistaphylococcal drugs
Aminoglycosides
Aminoglycosides
Antiseptics and Disinfectants
Tetracyclines and Chloramphenicol
MEDICAL GENETICS (TIBBİ GENETİK)
Technology of hybridoma
New generation vaccines

M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ)

Introduction to Autonomous Nervous system Pharmacology
Introduction to Autonomous Nervous system Pharmacology
Agents acting at the neuromuscular junction and autonomic ganglia
Parasympathomimetic agents
Parasympathomimetic agents
Parasympatholytic agents
Sympathomimetic agents
Sympathomimetic agents
Sympatholytic agents
Drugs used for ischemic heart diseases
Anticoagulant, fibrinolytic and antiplatelet drugs
Anticoagulant, fibrinolytic and antiplatelet drugs
Diuretic drugs
Diuretic drugs
Anticoagulant, fibrinolytic and antiplatelet drugs
Renin-angiotensin system pharmacology
Anti-arrhythmic drugs
Anti-arrhythmic drugs
Antihypertensive agents
Antihypertensive agents
Pharmacotherapy of heart failure
Beta adrenergic receptor blockers

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Respiratory System Symptoms in Children
Respiratory System Physical Examination in Children
Approach to Allergic Diseases in Childhood
Anaphylaxis
Asthma in Childhood
Allergic Rhinitis in Childhood
Atopic Dermatitis in Childhood
Atopic Dermatitis in Childhood
CHEST DISEASES (GÖĞÜS HAST.)
Signs and symptoms in respiratory diseases
Signs and symptoms in respiratory diseases
Arterial blood gases
Lung function tests
Lung function tests
Obstructive lung diseases (COPD, Bronchial Asthma, Bronchiectasis)
Obstructive lung diseases (COPD, Bronchial Asthma, Bronchiectasis)
Pneumonia
Pneumonia
Tuberculosis
Tuberculosis
Pleural effusion and empyema
Pleural effusion and empyema
Lung tumor
Lung tumor
Occupational lung diseases
Occupational lung diseases
Interstitial lung diseases
Sarcoidosis
Physical examination of the thorax
Physical examination of the thorax
Physical examination of the thorax (Medical skills lab)
Physical examination of the thorax (Medical skills lab)
RADIOLOGY (RADYOLOJİ)
Circulatory and Respiratory Systems Radiology

Gastrointestinal System Subject Committee
GASTROENTEROLOGY (GASTROENTEROLOJİ)
Esophagus Diseases
Gastroesophageal Reflux Disease
Esophageal Tumors
Dyspepsia, Helicobacter pylori and Gastritis
Malabsorption
Malabsorption
GIS Physical Examination
Peptic Ulcer, Gastric Cancer
Inflammatory Bowel Diseases
Inflammatory Bowel Diseases
Liver Function Tests
Chronic Diarrhea
Chronic Hepatitis, Liver Tumors
Chronic Hepatitis, Liver Tumors
Upper Gastrointestinal Bleeding
Lower Gastrointestinal Bleeding
Acute and Chronic Pancreatitis
Ascites
Jaundices
Hepatic Encephalopathy
Toxic Hepatitis

Drugs therapy for hypercholesterolemia and dyslipidemia
Drugs therapy for hypercholesterolemia and dyslipidemia
Pharmacotherapy for obstructive pulmonary diseases
Pharmacotherapy for obstructive pulmonary diseases
Drugs used for peripheral vascular diseases
Antitussives, mucolytics and expectorants
Hemostatic and replacement drugs
Drugs used in fluid electrolyte imbalances
Drugs used in Acid base balance disorders
Plasma expanding solutions
ANESTHESIOLOGY (ANESTEZİ ve REANİMASYON)
Cardiopulmonary Arrest and Resuscitation
NUCLEAR MEDICINE (NÜKLEER TIP)
Pulmonary Ventilation Perfusion Scintigraphy
Pulmonary Embolism and Use of PET in Lungs
Nuclear Medicine applications in cardiovascular diseases
Nuclear Medicine applications in cardiovascular diseases
PATHOLOGY (PATOLOJİ)
Atherosclerosis and hypertension
Vasculitis
Congenital cardiac diseases
Congenital cardiac diseases
Ischemic heart diseases
Cardiomyopathies
Heart Failure
Heart Failure
Upper respiratory diseases
Upper respiratory diseases
Obstructive Diseases
Congenital anomalies, atelectasis
Restrictive Diseases
Granulomatous Diseases
Granulomatous Diseases
Pulmonary neoplasms, pleural and mediastinal diseases
Pulmonary neoplasms, pleural and mediastinal diseases

M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ)
Pharmacotherapy of Peptic Ulcers and GERD
Pharmacotherapy of Peptic Ulcers and GERD
Pharmacotherapy of Inflammatory Bowel Diseases
Prokinetic Agents
Laxatives, Cathartics, and Therapy for Constipation
Anti-Diarrheal Agents
Emetic and Antiemetic Agents
Uses of Vitamins as Therapeutic Agents
Uses of Vitamins as Therapeutic Agents
Emetic and Antiemetic Agents
Diagnosis and Treatment of Drug Poisoning
Diagnosis and Treatment of Drug Poisoning

MEDICAL GENETICS (TIBBİ GENETİK)
Genetics of Gastrointestinal System
Genetics of Gastrointestinal System

NUCLEAR MEDICINE (NÜKLEER TIP)
Hepatobiliary Scintigraphy
GIS Bleeding and Inflammatory Bowel Disease

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Diseases of Gall Bladder and Bile Ducts
Cirrhosis and Portal Hypertension

Colonic polyps, Colon cancer

GENERAL SURGERY (GENEL CERRAHİ)

Abdominal Physical Examination

Anal, Perirectal Physical Exam, Rectal Examination

Principles of Surgical Treatment in Peptic Ulcer Disease

Principles of Surgical Treatment in GIS Neoplasias

RADIOLOGY (RADYOLOJİ)

Gastrointestinal Systems Radiology

| Urogenital and Endocrine System Committee

ENDOCRINOLOGY (EDNORKİNOLOJİ)

Diabetes mellitus, Acute and chronic complications of diabetes

Thyrotoxicosis and hyperthyroidism

Nontoxic goiter and thyroid neoplasms

Pituitary disorders

Diabetes insipidus and syndrome of inappropriate antidiuretic hormone

Hypoglycemia and Obesity

Hypothyroidism and Thyroiditis

The metabolism of calcium and vitamin D, Hypo and hypercalcemia

Cushing Sendromu

Pathophysiology of adrenal gland, Addison's disease,

Pheochromocytoma

Endocrine hypertension, Hyperaldosteronism

Thyroid hormone synthesis and diagnostic tests

Thyroid hormone synthesis and diagnostic tests

GENERAL SURGERY (GENEL CERRAHİ)

Approach to Thyroid Nodules and Hyperthyroidism

Breast Diseases

GYNECOLOGY&OBSTETRICS (KADIN-DOĞUM)

Approach to Infertile Couple

Contraception

Female Genital Anatomy

Endocrinology of Pregnancy

Menstrual Cycle and Puberty

Gynecology/Obstetrics History, Physical/pelvic examination

Pregnancy Development and Maternal Physiology

Pregnant Woman Examination

Antenatal follow-up

Prenatal follow up and diagnostic tests

Normal Labor and Delivery

Cervix Benign Diseases

Cervix Malignant Diseases

Benign Ovarian Diseases

Malignant Ovarian Diseases

Malignant Diseases of Uterine Corpus

Benign and Malignant Diseases of Vagina and Vulva

Benign Diseases of Uterine Corpus

M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ)

Basic Principles of Endocrine System Pharmacology

Basic Principles of Endocrine System Pharmacology

Thyroid and Anti-Thyroid Drugs

Thyroid and Anti-Thyroid Drugs

Hypothalamic-Pituitary Axis Hormones

ACTH, Adrenal Steroids, and Pharmacology of the Adrenal Cortex

ACTH, Adrenal Steroids, and Pharmacology of the Adrenal Cortex

Insulin, Oral Hypoglycemic Agents and Glucagon

Insulin, Oral Hypoglycemic Agents and Glucagon

Agents Affecting Calcium and Phosphate Homeostasis and Bone

Turnover

Androgens, anabolic steroids and antiandrogens

Androgens, anabolic steroids and antiandrogens

Oxytocin and Tocolytic Drugs

Drugs Used to Control Fertility

PATHOLOGY (PATOLOJİ)

Disease of Oral Cavity and Salivary Glands

Esophagus Pathology

Gastric Pathology, Gastritis, Peptic Ulcer Disease

Gastric Pathology, Gastritis, Peptic Ulcer Disease

Malabsorption Disorders

Inflammatory Bowel Diseases

Gastrointestinal System Tumors

Small And Large Bowel Diseases

Liver and Bile Duct Diseases

Pancreas Diseases

PATHOLOGY (PATOLOJİ)

Thyroid diseases

Thyroid diseases

Adrenal diseases pathology

Pituitary and pineal gland disorders

Parathyroid diseases

Endocrine pancreas and diabetes mellitus

Pathology of Glomerular Diseases

Pathology of Glomerular Diseases

Pathology of Glomerular Diseases

Vascular diseases of the kidney

Cystic diseases of the kidney

Tubular and Interstitial Diseases and Urinary Tract Obstruction

Male genital system pathologies

Renal and Urinary Bladder Tumors

Renal and Urinary Bladder Tumors

Gestational and placental diseases pathology

Cervix Vulva Vagina Diseases

Tubaovarian diseases

Tubaovarian diseases

Endometrial and myometrial diseases

Endometrial and myometrial diseases

Breast Diseases Pathology

Breast Diseases pathology

Skin Disorders

Skin Disorders

PEDIATRIC HEALTH (ÇOCUK SAĞLIĞI ve HASTALIKLARI)

Dysfunctional Elimination Syndrome

Dysfunctional Elimination Syndrome

Congenital Hypothyroidism

Congenital adrenal hyperplasia

Emergency Surgical Pathologies of Childhood

Emergency Surgical Pathologies of Childhood

Juvenile Diabetes Mellitus 2

Juvenile Diabetes Mellitus 3

Physiology of puberty

Common Surgical Pathologies of Childhood

Common Surgical Pathologies of Childhood

Urogenital System Pathologies in Children 2

Urogenital System Pathologies in Children 3

RADIOLOGY (RADYOLOJİ)

Urogenital Systems Radiology

UROLOGY (ÜROLOJİ)

History taking in Urology and Urogenital System Examination

Urinary System Symptoms

Introduction to Urogenital Tumors

Urinary Stone Disease

Benign Prostate Hyperplasia

Male Infertility

Male Sexual Dysfunction

MEDICAL GENETICS (TIBBİ GENETİK)

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Drugs Used to Control Fertility

Vasopressin Analogs and antagonists
Estrogens, Progestins and Antagonists
Estrogens, Progestins and Antagonists
Drugs Used in Treatment of Fluid-Electrolyte
Drugs Used in Treatment of Fluid-Electrolyte
NUCLEAR MEDICINE (NÜKLEER TIP)
Thyroid organ and other endocrine organs sintigraphies

Radioactive Iodine Treatment
Nuclear Uro-Nephrology
Nuclear Uro-Nephrology

Molecular Approaches in Diagnosis and Prognosis of Thyroid Diseases

Molecular Approaches in Diagnosis and Prognosis of Thyroid Diseases

Genetic Basis of Diabetes Mellitus

Genetic Basis of Diabetes Mellitus

Genetic Basis of Infertility

Genetic Basis of Infertility

NEPHROLOGY (NEFROLOJİ)

Basic Principles of Renal Physiology

Evaluation of Kidney Function and Clinical approach to Renal Diseases

Proteinuria and hematuria

Akut Kidney Insufficiency

Hereditary kidney disease

Chronic Renal Insufficiency

Acute and Chronic Glomerulonephritis

Neurological Sciences, Psychiatry and Musculoskeletal System Subject Committee **M. PHARMACOLOGY (TIBBİ FARMAKOLOJİ) PHYSICAL MEDICINE (FİZİK TEDAVİ)**

Fundamentals Of Central Nervous System

Pharmacology

Fundamentals Of Central Nervous System

Pharmacology

Drug Therapy of Depression and Anxiety Disorders

Drug Therapy of Depression and Anxiety Disorders

Pharmacotherapy of Migrane

Hypnotics and Sedatives

Hypnotics and Sedatives

Pharmacotherapy of Psychosis and Mania

Pharmacotherapy of Psychosis and Mania

Central Nervous System Stimulants

Pharmacotherapy of The Epilepsies

Pharmacotherapy of The Epilepsies

Local Anesthetics

Local Anesthetics

General Anesthetics

General Anesthetics

Drugs Used for theTreatment of Central Nervous System

Degenerative Disorders and Multiple Sclerosis

Drugs Used for theTreatment of Central Nervous System

Degenerative Disorders and Multiple Sclerosis

Drugs Used for theTreatment of Central Nervous System Degenerative

Disorders and Multiple Sclerosis

Neuromuscular Bloking Agents and Centrally

ActingMuscle Relaxants

Toxicology of Alcohols and Ethanol Addiction

Toxicology of Alcohols and Ethanol Addiction

Opioid Analgesics

Opioid Analgesics

Non-Opioid Analgesics

Non-Opioid Analgesics

Pharmacotherapy of Gout

Drug Abuse And Drug Addiction

Drug Abuse And Drug Addiction

Anti-Inflammatory, Antipyretic and Analgesic Agents

Anti-Inflammatory, Antipyretic and Analgesic Agents

Drugs Used for Prevention and Treatment of

Osteoporosis

Drugs Used for Prevention and Treatment of

Osteoporosis

Pharmacotherapy of Rheumatoid Arthritis

Ceritrally Acting Muscle Relaxants

Neck Pain Pathogenesis and Rehabilitation

Osteoporosis Pathogenesis and Rehabilitation

Nonarticular Rheumatism Pathogenesis and Rehabilitation

Low Back Pain Pathogenesis and Rehabilitation

Soft Tissue Rheumatism Pathogenesis and Rehabilitation

Osteoarthritis Pathophysiology and Rehabilitation

PSYCHIATRY (PSİKİYATRİ)

Introduction to Psychiatry, the Patient-Doctor Relationship

Basic Principles of Psychiatric Interview

Psychiatric Examination

Mental Disorders Due To General Medical Conditions

Anxiety and Related Disorders

Mood Disorders

Psychosis

Somatization and Related Disorders

AlcoholAnd Drug Addiction

Dissociative Disorders

Personality Disorders

Eating and Sleep Disorders

Eating and Sleep Disorders

Dead and Grief /Mourning

Psychiatric Aspects of Chronic Diseases- Psychosomatic Medicine

RADIOLOGY (RADYOLOJİ)

Nervous Systems Radiology

ROMATHOLOGY

Behçet's Disease and Familial Mediterranean Fever (Rhomathol)

What is Arthritis? Classification of RheumaticDiseases ,

SynovialAnlalysis. (Rhomathology)

Rheumatoid Arthritis and Ankylosing Spondylitis / Other

Spondyloarthropathies (Rhomathology)

Connective Tissue Diseases / Vasculitis (Rhomathology)

Crystal Artropathies (Rhomathology)

NUCLEAR MEDICINE (NÜKLEER TIP)

Nervous System Disorders and Nuclear Medicine

Nervous System Disorders and Nuclear Medicine

Nuclear Medicine in Primary and Secondary Bone Tumors

Nuclear Medicine in Other Bone Diseases

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

NEUROLOGY (NÖROLOJİ)

High Cortical Functions
Motor neuron disease
Cranial Nerves
Motor and Sensory pathways

Neurosonnology
Demyelinating Diseases
Encephalities
Polyneuropathies
Headache
Cerebrovascular Diseases
Extrapyramidal System Disorders: Pathophysiology
Muscle Disorders

Neuromuscular Junction Diseases
Disorders of consciousness
Headache
Epilepsy: Pathophysiology and Semiology
OPHTHALMOLOGY (GÖZ)

Introduction To Ophthalmology, Optic
Accommodation, Refraction and Refractive Errors
The Physiology of the Vision, Visual Pathways and
Diseases

Retinal Diseases
Eye Movement Disorders and Nystagmus

ORTHOPAEDICS (ORTOPEDİ)

Orthopaedics: Terminology and History. Fracture
Classification and Physiology of Healing.
Musculoskeletal Tumors, Infections : Orthopaedic
Approach

Dislocations , Joint and Soft Tissue Injuries
Fracture: Conservative and Surgical Treatment
Methods, Complications

Lower and Upper Extremity Important Fractures,
Pelvic, Acetabular an Dspine Trauma
Pediatric Orthopaedics And Treatment Methods

Public Health and Forensic Medicine Subject Committee

EPIDEMIOLOGY (EPİDEMİYOLOJİ ve BİYİSTATİSTİK)

Introduction To Epidemiology
Causality Concept In Epidemiology
Descriptive And Cross Sectional Researches
Case-Control And Cohort Studies
Case-Control And Cohort Studies
Specific Topics In Epidemiology And Screenings
Introduction To Biostatistics
Descriptive Statistics
Frequency Tables
Single Dimensional Tables And Graphs
Multi Dimensional Tables And Graphs
Probability And Distributions
Sampling
Frequency Measures, Measures For Diagnosing Tests
Introduction To Hypothesis Testing
Tests For Single Samples 1
Tests For Single Samples 2
Tests For Samples More Than Two 1
Tests For More Than Two Samples 2
Tests For Dependent And Independent Variables
Correlation And Regration
General Discussion (Epidemiology and Biostatistics)

FORENSIC MEDICINE (ADLI TIP)

Introduction To Forensic Medicine And Gorensc Science 1
Introduction To Forensic Medicine And Gorensc Science 2
Legal Liabilities And Forensic Duties Of Physicians
Definition And Examinatin Of Forensic Case And Death Definition

PATHOLOGY (PATOLOJİ)

Infectious and Noninfectious Diseases of the Joints
CNS Cellpathology
CNS Malformations and Developmental Disease
CNS Vascular Diseases and Trauma
Cerebral Edema, Hydrocephalus, Increased Intracranial Pressure
and Herniation
CNS Infections, Prion Diseases
Peripheral Nervous System and Skeletal Muscle Disorders Diseases
Nörodegenerative and Demyelinating Diseases
Geneticand Acquired Metabolic Diseases, Toxic Diseases
CNS Tumors
Soft Tissue Disorders
Acquired Bone Diseases
Overview Of Bone Pathology, Developmental Disorders Of Bone
and Cartilage
Bone Tumors
Bone Fracture, Fracture Healing
Osteonecrosis and Osteomyelitis
**PEDIATRIC HEALTH (ÇOCUK SAĞLIĞI ve
HASTALIKLARI)**

Neurological Examination in Children (schoolers and adolescents)

Epilepsy in Childhood
Febrile Convulsion
Breath holding spells and other non-epileptic phenomenias
Cranial volume and shape disorders

Meningeal irritation signs

Neurological Symptomatology in children and adolescents
Neurological Examination in children (infants and preschool ages)

PUBLIC HEALTH (HALK SAĞLIĞI)

Public Health Concept
Primary Health Care
Health Services in Turkey
Health Services in Turkey
Financing Health Services
Human Resources For Health
Controlling Communicable Diseases And Immunization
Controlling Communicable Diseases And Immunization
Control Od Airborne And Foodborne Diseases
Control Of Sexually Transmitted Diseases
Vectorborne Diseases And Malaria Control
Population And Health
Control Of Non-Communicable Diseases
Coronary Heart Diseases And Hypertention
Cancer Control
Community Nutrition And Obesity Control
Tuberculosis Control
Tobacco And Health
Elderlies And Disabled People
Newborn screenings
Determinants of Maternal And Child Health
Reproductive Health and Family Spacing
Children and Adolescents as a Public Health Concern
Major Health Problems in Turkey
Community Mental Health
Principles Of Occupational Health
Physical And Chemical Factors For Occupational Health

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

General Discussion (Forensic Medicine)

MEDICAL ETHICS (TIP ETİĞİ)

Medical Ethics , Its Meaning, Ethical Rules and Problems
Principles of Medical Ethics
Patient and Physician Rights
Consultation and Ethical Problems
Privacy in Medicine
Organ and Tissue Transplantations and Ethical Problems
Responsibility of Physician
Relations of Patient-Physician
Quackery in Medicine
Organ and Tissue Transplantations and Ethical Problems
Genetics and Ethical Problems
Physician Reports and Ethical Problems
Euthanasia and Ethical Problems

Biological And Social Factors Effecting Occupational Health
Ergonomics
Occupational Diseases
International Health
Health Services In Specific Institutions (Schools, Prisons)
Air And Water Pollution
Environmental Health
Waste Control
Health Promotion And Health Education
Disaster Medicine
General Discussion (Public Health)

2025-2026 PHASE 4

Code	Clerkship	Theoretical Hours	Practical Hours	Total Hours	Weeks	AKTS
MED 401	Internal Medicine Clerkship	139	101	240	8	13
MED 402	Pediatrics and Pediatric Surgery Clerkship	80	160	240	8	13
MED 403	Gynecology and Obstetrics Clerkship	40	110	150	6	10
MED 404	General Surgery Clerkship	34	206	240	8	13
MED 408	Cardiology Clerkship	22	66	88	4	7
MED 409	*Elective Clerkship	20	40	60	2	4

* Elective Clerkship (To be completed in the Department chosen by the student)

PEDIATRICS AND PEDIATRIC SURGERY CLERKSHIP

Adrenocortical Insufficiency	Urinary System Infections
Familial Mediterranean Fever	Decreased Appetite
Lung Sounds Listening Ability	Heart Sounds Listening Ability
Acute Rheumatic Fever	Capillary Blood Sampling
Anemia	Abdominal Pain in Childhood
Anthropometric measurements	Cystic Fibrosis
Acid Base Balance	Congenital Heart Diseases
Short Stature, Growth Hormone Deficiency	Common Chromosomal Disorders
Failure to Thrive	Ambiguous Genitalia
Physical Examination of Newborn and Child	Childhood Leukemias
Acute and Chronic Renal Insufficiency in Childhood	Malnutrition and Rickets
Follow-up of Growth and Development in Children (growth charts, Tanner stages)	Megaloblastic Anemia
Infective Endocarditis in Children	Moniliasis
Cardiovascular System Symptoms in Children	Nephrotic Syndrome
Cardiovascular System Physical Examination in Children	Neurocutaneous Diseases
Childhood headache	Inhalation Therapy
Malabsorption in Childhood	Diabetes Incipitus in Childhood
Solid tumors in Childhood (Wilm's Tm, Neuroblastoma...)	Prematurity
Obesity in Childhood	Primary Immune Deficiencies
Developmental Abnormalities and Mental Retardation in Children	Pulmonary Hypertension
Dehydration	Puberty Disorders (early-late)
Iron Deficiency Anemia	Cerebral Palsy
Newborn of Diabetic Mother	Fluid and Electrolyte Disorders
Newborn Care After Birth	Cyanosis
Birth Trauma	Respiratory Insufficiency
Perinatal Asphyxia	Heel Blood Sample Taking
Congenital Metabolic Diseases	Transcutaneous bilirubin measurement and evaluation
Poor Sucking in Newborn	Neonatal Resuscitation
Gastroesophageal Reflux	Hyperbilirubinemia in Newborn
Gluten Sensitive Enteropathy	Metabolic disorders in Newborn, Hypoglycemia
Hemoglobinopathies	Necrotizing enterocolitis in Newborn
Hemochromatosis	Sepsis and Meningitis in Newborn
Vasculitis in Childhood	Respiratory Insufficiency in Newborn
Wheezing and Stridor	Hypoxic-ischemic Encephalopathy in Newborn
Pituitary Disorders	Approach to Hematuria and Proteinuria in Childhood
Hypoparathyroidism	TORCH
Hypothyroidism	Chronic cough

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Neuromuscular Disorders, Hypotonic Infant
Ability to do injections

Cow milk allergy
Pneumonia - Empyema

INTERNAL MEDICINE CLERKSHIP

Opening speech, information about internships
Bedside training (interview with the patient - anamnesis)
Dyspepsia approach to patient
Interviews with patients - patients history
General principles of physical examination
Bedside training Clinical characteristics of patients receiving chemotherapy
Behcet's disease
Abdominal examination
Jaundiced patient approach
Bedside training Abdominal examination
Systemic Lupus Erythematosus
Clinical presentation of the kidney disease
Approach to the patient with diarrhea
Extremity examination
Bedside training Head and Neck examination
symptoms in rheumatic diseases
Constipation approach to patient
Fluid - Electrolyte Disorders(1)
Laboratory evaluation of kidney diseases
Spondyloarthropathies
Approach to patients with anemia
Iron deficiency and megaloblastic anemia
Anemia of chronic disease
Hemolytic anemia
Hemoglobinopathies
Anemia due to bone marrow failure
Chronic renal failure
Crohn's Disease
Autoimmune hepatitis, liver Genetic Diseases
The principles of medical oncology - cancer pathogenesis
Oncologic emergencies
Clinical and laboratory approach Hematologic Diseases
Thrombotic disorders and genetic thrombophilia
Platelet Disorders
Hereditary and Acquired coagulation disorders
Bedside training Liver Dysfunction
Bedside training Thyroid examination - Goiter approach to the patient and Bedside training Hypertensive emergency clinical follow-up
Colorectal cancer
Celiac disease
Acid approach to patient
Thyroiditis: Hypothyroidism and hyperthyroidism
Bedside training Shock - Cardiopulmonary Resuscitation
Breast cancer
Familial Mediterranean Fever
Connective Tissue Diseases
Blood transfusions
Myeloma and plasma cell dyscrasias,
Leukocyte Disorders

Acute Leukemia
MDS and access to hematologic malignancies

Myeloproliferative Diseases
lymphomas
Adrenal Gland Disease
"Acute rheumatic fever
Diagnosis of oncological diseases"

Endocrine hypertension
Nodular goiter and thyroid cancer
Female genital tract cancers
Cancers of unknown primary
Serological Tests in Rheumatology
Bedside training Examination of the thyroid - goiter approach to the patient
Irritable Bowel Syndrome
Glomerulonephritis
Ulcerative colitis
Internal Emergencies
Approach to patients with portal hypertension
Primary Biliary Cirrhosis - primary sclerosing cholangitis
Infection related Glomerulonephritis
Secondary Glomerulonephritis; Vasculitis and Kidney
Chronic hepatitis B
bedside training (Cirrhosis / PHT's patient examination)
Chronic hepatitis C
Diabetic Nephropathy
Amiloidosis, Multiple Myeloma, Light Chain disease and the kidney
Lung cancer
HEMATOLOGY
Rheumatoid Arthritis
Systemic Vasculitis
Diabetes Mellitus
Endocrine diseases and heart
Endocrine Emergencies
Parathyroid disease
Gastroesophageal reflux disease
Peptic ulcer patient approach
Hereditary kidney disease
Hereditary cystic kidney disease

Bedside training (Percutaneous Interventions - To be noted on)
Pituitary Diseases
Osteoporosis
Malignities and the kidney
Tubulointerstitial nephritis
Lower and Upper Gastrointestinal Bleeding
Renal Replacement Therapies
Renal Transplantation
Fluid - Electrolyte Disorders(2)
Acide Base balance disturbances
Approach and treatment of glomerular diseases
Vasculitides affecting the kidney
Bedside training Extremity examination and Bedside training Rheumatology meeting with patients
Acute kidney injury; New perspectives
Bedside training Porphyria

GYNECOLOGY AND OBSTETRICS CLERKSHIP

History Taking & Physical Examination
Genital System Embryology
Female Genital Anatomy
Reproductive Physiology
Amenorrhea
Pubertal Development and Anomalies
Pelvic Relaxation
Urinary Incontinence
Pelvic Infections & Vaginitis
Sexually Transmitted Diseases
Dysmenorrhea
Premenstrual Syndrome
Endometriosis
Dysfunctional Uterine Bleeding
Preoperative / Postoperative Care
Contraception
Abortion
Ectopic Pregnancy
Benign Diseases of Ovary
Infertility
Hirsutism

Normal Pregnancy & Perinatal Followup
Multiple pregnancies
Normal Birth
Breech presentation and operative birth
Infectious Diseases of Pregnancy
Female Sexual Function Disorders
Prenatal Diagnosis and Genetic Counselling
Rh Incompatibility
Premature labor and Postterm pregnancy
Hypertension during pregnancy, eclampsia/preeclampsia
Intrauterine Growth Retardation and Macrosomia
Pregnancy & Diabetes
Third Trimester Bleeding
Postpartum Bleeding
Malignant Disease of Vulva & Vagina
Gestational Trophoblastic Diseases
Benign Diseases of Cervix
Benign Diseases of Corpus Uteri
Benign Diseases of Vulva & Vagina
Malignant Diseases of Cervix

GENERAL SURGERY CLERKSHIP

Surgical Anatomy
Breast Diseases
Wound Healing
Acute Abdomen Syndrome : Brainstorming
GIS Bleeding and Inflammatory Bowel Disease
Peritonitis
Abdominal Trauma
Gallbladder and Biliary Tract Diseases
Ventral/Inguinal Hernia
Ileus and Abdominal Pain
Liver Diseases
Appendix Diseases
Gastric Pathologies
Radiologic Imaging in Surgery
Colorectal Diseases
Pancreatic Tumors
Nutrition in Surgery

Pleural effusions
Thoracic Traumas
Pancreatitis
Burn
Hydatid Cyst
Cushing Syndrome
Parathyroid adenoma
Hiatus hernia
Acute Abdominal Syndrome
Colorectal Diseases
Postoperative Complications
Thyroid Diseases
Breast Disease
Parenteral IV Fluids and Shock
Anal Region Pathologies
Thyroid Gland Diseases

CARDIOLOGY CLERKSHIP

Discussion of the exam questions with students
Heart Failure
Cardiomyopathies and myocarditis
Pericardial disease
Congenital Heart Diseases in Adults
Hypertension as a Risk Factor for Cardiovascular disease
Non-Invasive Tests and Procedures in Cardiology
Primary Prevention of Atherosclerosis
Valvular Heart Diseases

Tachyarrhythmias (Supraventricular and Ventricular arrhythmias)
Stable Angina: Definition, Pathophysiology, Clinical manifestations, Treatment
Acute Coronary Syndrome: Unstable angina and non-ST elevation myocardial infarction. Definition, Pathophysiology, Clinical Manifestations, Treatment
Acute Coronary Syndrome: ST elevation myocardial infarction. Definition, Pathophysiology, Clinical manifestations, Treatment
Clinical Electrocardiography (ECG)
Pulmonary Embolism and Pulmonary Hypertension
Aortic Diseases