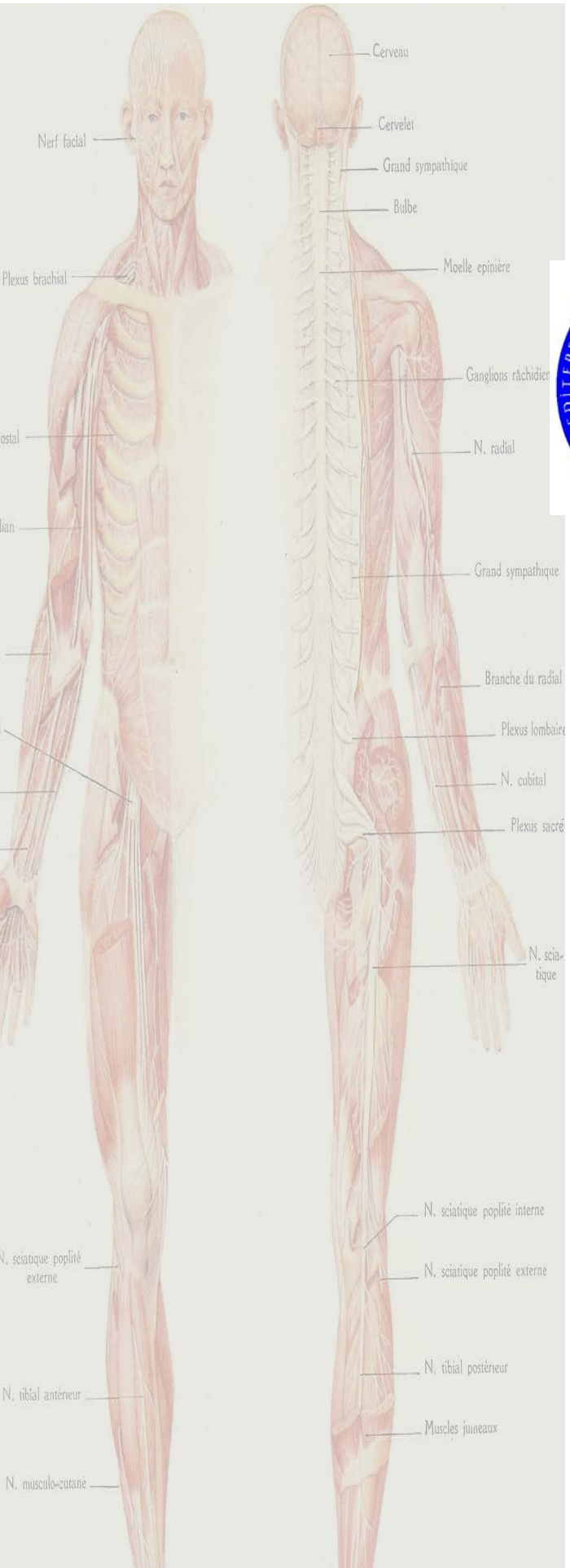

YEDİTEPE ÜNİVERSİTESİ
TIP FAKÜLTESİ
DÖNEM II
DERS PROGRAMI

2007 - 2008

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2007 - 2008

26 Ağustos Yerleşimi Kayışdağı Caddesi 34755 Kayışdağı / Erenkoy – İSTANBUL
Tel: (0216) 578 05 23 – 578 06 86 Faks: (0216) 578 05 75

Dekan Mesajı

Sevgili Öğrencilerim,

Fakültemizde geçirdiğiniz ilk yılınızı başarı ile tamamlayarak 2. sınıfa devam ete hakkını kazandınız, sizleri tebrik ederim.
Tıp öğreniminizin 2. yılı Temel Tıp Bilimleri eğitimine yeni bası derslerin eklenmesi ile devam edecek, teorik bilgilerinizi ve pratik deneyimlerinizi arttırarak, gelecek yıl başlayacak olan klinik öğrenimine hazır duruma geleceksiniz.
2007–2008 öğretim yılında sizlere başarılar dilerken, karşılaşacağınız her türlü sorunda kapılarımızın sizlere her zaman açık olduğunu ve daima yanınızda olduğumuzu bilmenizi isterim.
Sevgilerimle,

FACULTY OF MEDICINE
PHASE II
2007 – 2008 ACADEMIC CALENDAR

FACULTY OF MEDICINE

FALL SEMESTER		**PHASE II (15 Weeks)***
Beginning of the Semester Classes	**:**	September 3, 2007
End of the Semester Classes	**:**	January 11, 2008
Fall Semester Midterm Examination	**:**	November 5-9, 2007 December 3-7, 2007
Fall Semester Final Examination	**:**	January 28-February 8, 2008
Fall Semester Make-up Examination	**:**	February 18-29, 2008

SPRING SEMESTER		**PHASE II (14 Weeks)***
Beginning of the Semester Classes	**:**	March 3, 2008
End of the Semester Classes	**:**	June 20, 2008
Spring Semester Midterm Examination	**:**	April 14 -18, 2008 May 12 -16, 2008
Spring Semester Final Examination	**:**	July 7-18, 2008
Spring Semester Make-up Examination	**:**	August 18-29, 2008
Religious Days	**:**	October 8-12, 2007 Monday-Friday December 17-21, 2007 Monday-Friday
Holidays	**:**	October 29, 2007 Monday January 1, 2008 Tuesday March 14, 2008 Friday (Physicians' Day) April 23, 2008 Wednesday

***** *Period of education for each semester indicates "the net education week" after the midterm-exam weeks and the holidays are excluded.Theoretical and practical Lessons will not be executed during the midterm-exam weeks.*

NB: In Fall and Spring semesters, during mid-term week;

FALL: November 5-9,2007, December 3-7,2007BREAK-NO CLASSES

SPRING: April 14-18,2008,May 12-16 BREAK-NO CLASSES

COURSES OF PHASE II

PHASE II	
FALL SEMESTER	**SPRING SEMESTER**
BIOPHYSICS	BIOPHYSICS
ANATOMY	MICROBIOLOGY and PARASITOLOGY
MICROBIOLOGY	BIOCHEMISTRY
PHYSIOLOGY	SPECIAL HISTOLOGY and EMBRYOLOGY
BIOCHEMISTRY	ANATOMY
SPECIAL HISTOLOGY and EMBRYOLOGY	PHYSIOLOGY
IMMUNOLOGY	GENERAL PHARMACOLOGY
PROFESSIONAL SKILLS II	GENERAL PATHOLOGY
COMMUNICATION SKILLS and HYPNOSIS	COMMUNICATION SKILLS IN MEDICINE

COURSES with CREDITSCOURSES with

PHASE II / Fall Semester

COURSES	THEORETICAL	PRACTICAL	CREDITS	ECTS
MDM 242 BIOPHYSICS	2	-	2	2
MDM 222 ANATOMY	4	4	6	6
MDM 220 MICROBIOLOGY	3	2	4	4
MDM 213 PHYSIOLOGY	4	2	5	4
MDM 221 BIOCHEMISTRY	3	4	5	4
MDM 231 SPECIAL HISTOLOGY and EMBRYOLOGY	2	2	3	3
MDM 240 IMMUNOLOGY	2	-	2	2
MD 243 PROFESSIONAL SKILLS II	2	2	3	3
MDM 250 COMMUNICATION SKILLS and HYPNOSIS	1	-	-	1

ECTS CREDITS TOTAL 29

PHASE II

PHASE II / FALL SEMESTER / WEEKLY COURSE SCHEDULE

	09:00-09:50	10:00-10:50	11:00-11:50	12:00-12:50	13:00-13:50	14:00-14:50	15:00-15:50	16:00-16:50	17:00-17:50
MONDAY	Anatomy MDM 222 (T)	Anatomy MDM 222 (T)	Physiology MDM 213 (T)	Physiology MDM 213 (T)		Anatomy MDM 222 (T)	Anatomy MDM 222 (T)	Special Histology and Embryology MDM 231 (P)	Special Histology and Embryology MDM 231 (P)
TUESDAY	Biophysics MDM 242 (T)	Biophysics MDM 242 (T)	Special Histology and Embryology MDM 231 (T)	Special Histology and Embryology MDM 231 (T)		Professional Skills II MD 243	Professional Skills II MD 243	Professional Skills II MD 243	
WEDNESDAY	Microbiology MDM 220 (T)	Microbiology MDM 220 (T)	Microbiology MDM 220 (T)		Biochemistry MDM 221 (T)	Microbiology MDM 220 (P)	Microbiology MDM 220 (P)	Physiology MDM 213 (P)	Physiology MDM 213 (P)
THURSDAY	Anatomy MDM 222 (P)	Anatomy MDM 222 (P)	Biochemistry MDM 221 (T)	Biochemistry MDM 221 (T)		Biochemistry MDM 221 (P)	Biochemistry MDM 221 (P)	Biochemistry MDM 221 (P)	Biochemistry MDM 221 (P)
FRIDAY	Physiology MDM 213 (T)	Physiology MDM 213 (T)	Physiology MDM 213 (T)	Communnication Skills and Hypnosis MDM 250		Immunology MDM 240 (T)	Immunology MDM 240 (T)	Anatomy MDM 222 (P)	Anatomy MDM 222 (P)

PHASE II

FALL SEMESTER MIDTERM EXAMS

Professional Skills II	November 5,2007	10:00
Anatomy	November 6,2007	10:00
Physiology	November 8,2007	10:00
Biophysics	November 9,2007	15:00
Special Histology & Embryology	December 3,2007	14:00
Immunology	December 4,2007	14:00
Microbiology	December 5,2007	13:00
Communication Skills and Hypnosis	December 6,2007	13:00
Biochemistry	December 7,2007	14:00

FALL SEMESTER FINAL EXAMS

Physiology	January 28,2008	14:00
Biophysics	January 29,2008	14:00
Microbiology	January 31,2008	14:00
Immunology	February 1,2008	14:00
Anatomy	February 4,2008	10:00
Professional Skills II	February 5,2008	10:00
Special Histology & Embryology	February 6,2008	13:00
Biochemistry	February 8,2008	14:00

FALL SEMESTER MAKE-UP EXAM

Physiology	February 18,2008	14:00
Biophysics	February 19,2008	14:00
Microbiology	February 21,2008	14:00
Immunology	February 22,2008	14:00
Anatomy	February 25,2008	10:00
Professional Skills II	February 26,2008	10:00
Special Histology & Embryology	February 27,2008	15:00
Biochemistry	February 29,2008	15:00

FACULTY OF MEDICINE
PHASE II FALL SEMESTER

MDM 242- BIOPHYSICS

Theoretical:

Systematic of the Creatures
Atom, Molecule and the Matter
Basic Functional Construction of the Living Tissue
Water as a Life Medium
Bioenergetics
Radiation Biophysics
Laser Beams and their Application in Medicine
Infrared Beams and their Application in Medicine
Biophysics of the Respiratory System
Biophysics of the Vascular System

MDM 222-ANATOMY

Theoretical:

Respiratory And Cardiovascular System

Great vessels of the neck
Cervical plexus
Antero-lateral aspect of the neck
Suboccipital region and the deep muscles of the back
SCALP, superficial structures of the face, the temporal region
Temporomandibular joint and the muscles of mastication
Infratemporal and pterygopalatine fossae
Anatomy of the nose and the paranasal sinuses
Thoracic wall
Heart, pericardium and the great vessels
Mediastinum and the diaphragm
Structures in the posterior mediastinum
Larynx
Trachae, pleura and the lungs

Gastrointestinal System

Oral cavity
Pharynx and oesophagus
Antero-lateral abdominal wall
Inguinal canal
Peritoneum
Vessels and nerves of the gastrointestinal system
Stomach
Small intestine
Large intestine
Liver
Gall bladder and the biliary ducts
Pancreas and spleen
Portal system

Genital And Endocrıne Systems

Kidneys and ureters

Urinary bladder and the urethra
Perineum
Male genital organs
Female genital organs
Thyroid and parathyroid glands
Thymus and the suprarenal gland

Practical:

Respiratory And Cardiovascular System

Great vessels of the neck
Cervical plexus
Antero-lateral aspect of the neck
Suboccipital region and the deep muscles of the back
SCALP, superficial structures of the face, the temporal region
Temporomandibular joint and the muscles of mastication
Infratemporal and pterygopalatine fossae
Anatomy of the nose and the paranasal sinuses
Thoracic wall
Heart, pericardium and the great vessels
Mediastinum and the diaphragm
Structures in the posterior mediastinum
Larynx
Trachae, pleura and the lungs

Gastrointestinal System

Oral cavity
Pharynx and oesophagus
Antero-lateral abdominal wall
Inguinal canal
Peritoneum
Vessels and nerves of the gastrointestinal system
Stomach
Small intestine
Large intestine
Liver
Gall bladder and the biliary ducts
Pancreas and spleen

Genital And Endocrıne Systems

Kidneys and ureters
Urinary bladder and the urethra
Perineum
Male genital organs
Female genital organs
Thyroid and parathyroid glands
Thymus and the suprarenal gland

MDM 220 MICROBIOLOGY

Theoretical:

History and scope of microbiology
Procaryotic and eucaryotic cells
Bacterial classification
Microbial growth and metabolism, nutrition
Microbial genetics
Growth and cultivation of microorganisms

Collection and transport of clinical specimens
Microflora of different environments
Microbial pathogenesis
Antimicrobial agents, mechanisims of action and resistance
Viruses-General features
Fungi- General features
Introduction to parasitology

Practical:
The Study of Cell Morphology: Specimen preperation
Smear Preparation, Fixation , Simple Staining
Observation of microorganisms by Gram stain
Inoculation techniques: Agar streaking for obtaining single colony technique
Types of Media for Growing Microorganisms
Antibiotic /Disinfectant Susceptibility Testing
Mycology

MDM 213 PHYSIOLOGY

Theoretical:
Principles of Hemodynamics
Regulation of Blood Pressure
Vascular Distensibility and Functions of the Arterial and Venous Systems
Coronary Circulation
Microcirculation and the Lymphatic System
Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow
Local and Humoral Control of Blood Flow by the Tissues
Nervous Regulation of the Circulation
Cardiac Failure
Heart Valves and Heart Sounds
Circulatory Shock and Physiology of Its Treatment
Body Fluids and Kidneys
Renal Circulation and Glomerular Functions
Tubular Functions
Micturition
Fluid and Electrolyte Balance
Regulation of Acid-Base Balance
Kidney Diseases and Diuretics
Pulmonary Ventilation
Pulmonary Circulation, Pulmonary Edema, Pleural Fluid
Diffusion of Blood Gases
Transport of Blood Gases
Regulation of Respiration
Respiratory Insufficiency-Pathophysiology
Sports Physiology
Aviation, High-Altitude and Space Physiology
Physiology of Deep-Sea Diving and Hyperbaric Conditions
Organisation of the Nervous System
Neuron and Neuroglia
Synapse and Neurotransmitters
Peripheral Nervous System

Autonomic Nervous System
Sensory Receptors and Pathways
Cutaneous Senses
Physiology of Pain
Chemical Senses: Taste and Smell
Physiology of Hearing
Vestibular System
Physiology of Vision

Practical:
Heart Sounds
Arterial Pulse
Blood Pressure Measurement
Capillary Blood Flow
Pulmonary Function Tests
Film: Breath of Life
Aerobic Exercise Physiology
Pulmonary Flow Rates
Renal Function Tests
Film: The Food Machine
Galvanized Skin Test
Tail-Flick Analgesia Test
Film: The Brain
Electroencephalography-I

MDM 221 BIOCHEMISTRY

Theoretical:
Structure and function of erythrocytes
Structure and function of hemoglobin
Hemoglobin synthesis and degradation
Biochemical aspects of anemia
Fibrinolysis and coagulation
Carbohydrate metabolism
Digestion and absorption
Glycogenesis and glycogenolysis
Glycolysis
Pentose phosphate pathway
Hormones effecting carbohydrate metabolism
Lipid metabolism
Digestion and absorption
Transport and storage
Lipolysis
Lipogenesis
Oxidation of fatty acids
Cholesterol
Bile acids
Triacylglycerol synthesis
Disorders in lipid metabolism
Ketone bodies
Prostaglandins
Hormones effecting lipid metabolism

MDM 231SPECIAL HISTOLOGY AND EMBRYOLOGY

Theoretical:
Histology of Skin and Appendage
Histology of Circulatory Systems

Development of The Circulatory Systems
Histology of The Respiratory Systems
Head and Neck Development
Development of The Respiratory Systems
Blood & Hemopoiesis
Histology of Lymph Organs
Histology of Gastrointestinal Tract (Upper)
Histology of Gastrointestinal Tract (Lower)
Gland Associated with the Digestive System

Practical:

Skin & Appendage
CVS
Respiratory Sys.
Lympho Reticular Sys.
Upper GIT
Lower GIT

MDM 240 IMMUNOLOGY

Theoretical:

Innate and adaptive immunity
Organs of immune system
Mounting an immune response
Antigens
Antibodies
Disorders of immune response 1
Disorders of immune response 2
Hypersensitivity reactions I and II
Hypersensitivity reactions III and IV
Immune tolerance
Transplantation and immunity
Cancer and immunity
Detection of Antigen-Antibody reactions (Serological tests) 1
Serological tests 2

MDM 243 PROFESSIONAL SKILLS II

Theoretical:

Bladder Catheterization 1,2
Intramuscular Injection 1,2
Intradermal/ Subcutan Injection 1,2

Practical:

Bladder Catheterization
Intramuscular Injection
Intradermal/ Subcutan Injection

MDM 250 COMMUNICATION SKILLS AND HYPNOSIS

Theoretical:

Clinical Approach;
Communicating with Patient;
Communicating with Children;
Communicating with Phobic Patients;
Communicating with Patient in the first appointment;

PHASE II

Outlook for Patient Communications;
Introducing the Methods (Physiologic- Psychologic);
Medical Hypnosis;
Methods of Medical Hypnosis;
Preoperative Preparation of the Patient;
Medical Hypnosis with Children;
Clearing Phobi;
Control of Gag Reflex and operations under hypnosis;
Relieving Pain and Control of Pain;
Clinical Applications.

PHASE II

COURSES with CREDITS

PHASE II / Spring Semester

COURSES	THEORETICAL	PRACTICAL	CREDITS	ECTS
MDM 241 BIOPHYSICS	2	-	2	2
MDM 261 MICROBIOLOGY and PARASITOLOGY	3	2	4	4
MDM 223 BIOCHEMISTRY	2	4	4	4
MDM 232 SPECIAL HISTOLOGY and EMBRYOLOGY	2	2	3	3
MDM 201 ANATOMY	3	4	5	4
MDM 203 PHYSIOLOGY	3	2	4	4
MDM 233 GENERAL PHARMACOLOGY	3	2	4	4
MDM 230 GENERAL PATHOLOGY	2	2	3	3
MD 244 COMMUNICATION SKILLS IN MEDICINE	2	2	3	3

ECTS CREDITS TOTAL 31

PHASE II

PHASE II / SPRING SEMESTER / WEEKLY COURSE SCHEDULE

	09:00-09:50	10:00-10:50	11:00-11:50	12:00-12:50	13:00-13:50	14:00-14:50	15:00-15:50	16:00-16:50	17:00-17:50
MONDAY	Anatomy MDM 201 (T)	Anatomy MDM 201 (T)	General Pharmacology MDM 233 (T)	General Pharmacology MDM 233 (T)		Biochemistry MDM 223 (P)	Biochemistry MDM 223 (P)	Biochemistry MDM 223 (P)	Biochemistry MDM 223 (P)
TUESDAY	Anatomy MDM 201 (P)	Anatomy MDM 201 (P)	General Pathology MDM 230 (T)	General Pathology MDM 230 (T)	General Pathology MDM 230 (T)	General Pathology MDM 230 (T)	General Pathology MDM 230 (P)	General Pharmacology MDM 233 (P)LAB	General Pharmacology MDM 233 (P)LAB
WEDNESDAY	Physiology MDM 203 (T)	Physiology MDM 203 (T)	Physiology MDM 203 (T)		Biochemistry MDM 223 (T)	Biochemistry MDM 223 (T)	Biochemistry MDM 223 (T)	Special Histology and Embryology MDM 232 (P)LAB	Special Histology and Embryology MDM 232 (P)LAB
THURSDAY	Anatomy MDM 201 (T)	Anatomy MDM 201 (T)	Anatomy MDM 201 (T)	General Pharmacology MDM 233 (T)	Physiology MDM 203 (P)LAB	Physiology MDM 203 (P)LAB	Communication Skills in Medicine MD 244	Communication Skills in Medicine MD 244	Communication Skills in Medicine MD 244
FRIDAY	Microbiology MDM 261 (T)	Microbiology MDM 261 (T)	Microbiology MDM 261 (T)	Biophysics MDM 241 (T)	Biophysics MDM 241 (T)	Special Histology and Embryology MDM 232 (T)	Special Histology and Embryology MDM 232 (T)	Microbiology MDM 261 (P)LAB	Microbiology MDM 261 (P)LAB

PHASE II

SPRING SEMESTER MIDTERM EXAMS

Biophysics	April 14,2008	10:00
Anatomy	April 15,2008	10:00
Communication Skills in Medicine	April 17,2008	10:00
Physiology	April 18,2008	14:00
Biochemistry	May 12,2008	14:00
General Pathology	May 13,2008	14:00
Microbiology	May 14,2008	14:00
Special Histology&Embriology	May 15,2008	14:00
General Pharmacology	May 16,2008	14:00

SPRING SEMESTER FINAL EXAMS

Biophysics	July 7,2008	14:00
Special Histology&Embriology	July 8,2008	14:00
Anatomy	July 10,2008	10:00
General Pharmacology	July 11,2008	15:00
Physiology	July 14,2008	14:00
Biochemistry	July 15,2008	14:00
General Pathology	July 16,2008	14:00
Communication Skills in Medicine	July 17,2008	10:00
Microbiology	July 18,2008	15:00

SPRING SEMESTER MAKE-UP EXAMS

Biophysics	August 18,2008	15:00
Anatomy	August 19,2008	10:00
Communication Skills in Medicine	August 20,2008	10:00
Physiology	August 21,2008	10:00
General Pathology	August 22,2008	14:00
Biochemistry	August 25,2008	14:00
Microbiology	August 26,2008	14:00
Special Histology&Embriology	August 27,2008	14:00
General Pharmacology	August 29,2008	14:00

FACULTY OF MEDICINE
PHASE II SPRING SEMESTER

MDM 241 BIOPHYSICS

Theoretical:

Cardiac Pacemakers
Measurement of Blood Pressure
Measurement of Blood Speed
Biophysics of the Neurological System
Pain: its subjectivity, theories
Scientific Basis for Methods in Management of Pain
Neurostimulation and Neuroimplantation
Biofeedback
Acupuncture Technics

MDM 261 MICROBIOLOGY AND PARASITOLOGY

Theoretical:

Gram positive cocci
Gram negative cocci and coccobacilli
Gram positive aerobic bacilli
Gram negative bacilli
Anaerobic bacteria
Mycobacteria, Nocardia, Actinomycetes
Spirochetes
Mycoplasma, Chlamydia
Rickettsia
DNA viruses
RNA viruses
Oncogenic viruses
Protozoa and Helminths

Practical:

The presence of microorganisms on the surface of the skin and nose
Cultivation of microorganisms form human throat
Identification of an Enteric bacterium
Evaluation of Mycobacteria
Identification of basic structures of blood cells: Normal peripheral blood
Serological Tests
Evaluation of diarhheic stool sample and identification of enteric pathogens
Preparation of thin and thick blood smears for the diagnosis of malaria
Parasitology

PHASE II

MDM 223 BIOCHEMISTRY

Theoretical:

Protein metabolism
Digestion and absorption
Catabolism of amino acids
Urea cycle
Individual amino acids; synthesis, degradation, disorders
Overview of intermediary metabolism
Energy production and citric acid cycle
Integration of metabolism and provision of tissue fuel
Nutrition
Metabolism of xenobiotics
Hormones
General principles of hormone action
Hormones of pituitary and hypothalamus
Thyroid hormones
Regulation of calcium metabolism by hormones
Hormones of the adrenal cortex
Hormones of the adrenal medulla
Insulin
Glucagon
Hormones of the gastrointestinal system
Vitamins
Lipid soluble vitamins
Water soluble vitamins
Absorption and transport
Biological functions
Active forms
Defeciencies
Macroelements and microelements
Absorption, transport
Function
Disorders
Nucleic acids
Synthesis of Purine and Pyrimide nucleotides
Regulation of nucleotide syntheses
Disorders concerning nucleotide metabolisms

Practical:

Spectrophotometry and spectrophotometric determinations
Buffers
Determination of ∝ -amylase activity in saliva
Determination of activity of enzymes of the gastrointestinal tract
Determination of blood glucose level
Total lipid determination in serum
Determination of creatinine in serum
Determination of urea in serum
Urine analysis
Glucose
Acetone
Protein

Hemoglobin
Urobilinogen
Urobilin
Bilirubin
Microscobic examination
Urinary and kidney stones

MDM 232 SPECIAL HISTOLOGY AND EMBRYOLOGY

Theoretical:

Development of The Digestive System
Histology of Urinary System
Development of Urinary System
Histology of Endocrine System
Histology of Central Nervous System
Development of Central Nervous System
Histology of Sensory Organs(Eye & Ear)
Development of Sensory Organs(Eye and Ear)
Histology of The Male Genital System
Histology of The Female Genital System
Development of the Reproductive System

Practical:

GIT Glands
Urinary Tract
Neuro Endocrine Sys.
Male Genital Tract
Female Genital Tract

MDM -201 ANATOMY

Theoretical:

Neuroanatomy And The Sensory Organs

Introduction to the neuroanatomy
Spinal cord
Ascending pathways of the spinal cord
Descending pathways of the spinal cord
Brain stem
Cerebellum
Cranial nerves
Thalamus
Hypothalamus and hypophysis
Basal ganglia, epithalamus and subthalamus
Morphology of the brain hemispheres
Functional areas of the cerebral cortex
Meninges and the dural venous sinuses
Ventricules of the brain and circulation of the CSF
White matter of the brain
Vessels of the central nervous system
Limbic system
Orbit and its contents
The eyeball

Visual pathways
The ear
Auditory pathways
Vestibular system
Ocular motor system
Autonomic nervous system

Practical:

Neuroanatomy And The Sensory Organs
Spinal cord
Brain stem
Cerebellum
Cranial nerves
Diencephalon
Morphology of the brain hemispheres
Meninges and the dural venous sinuses
Ventricules of the brain
Vessels of the central nervous system
Orbit and the eyeball
Ear
Autonomic nervous system

MDM 203 PHYSIOLOGY

Theoretical:
Motor Functions of the Spinal Cord
Spinal Reflexes
Cortical and Brain Stem Control of Motor Function
Functions of Cerebellum and Basal Ganglia for Motor Control
Cerebral Cortex, Intellectual Functions of the Brain, Learning and Memory
Limbic System and the Hypothalamus
States of Brain Activity-Sleep and Brain Waves
Cerebrospinal Fluid and Brain Metabolism
Gastrointestinal Motility and Nervous Control
Oral and Gastric Digestion
Exocrine Functions of Pancreas
Absorption in the Gastrointestinal Tract
Physiology of Gastrointestinal Disorders
Metabolism of Carbohydrates, Lipids and Proteins
Liver as an Organ
Regulation of Feeding and Obesity
Physiological Functions of Vitamins
Body Temperature and its Regulation
Introduction to Endocrinology
Pituitary Gland and Hypothalamic Control
Physiology of Growth Hormone
Thyroid Metabolic Hormones
Adrenocortical Hormones
Insulin, Glucagon and Diabetes Mellitus
Regulation of Calcium & Phosphate Metabolism and Bone Formation
Male Reproductive Physiology
Female Reproductive Physiology

Pregnancy and Lactation

Practical:
Electroencephalography-II
Film: Taste and Smell
Reaction Time
Tests of Hearing
Film: Now Hear This
Electrooculagraphy
Biofeedback
Film: Visual Reality
Endocrine Control: Experimental Studies
Film: Glands and Hormones
Film: In the Womb

MDM 233 GENERAL PHARMACOLOGY

Theoretical:
Intruduction to the course, pharmacology contents, passage of drugs across membranes
passage of drugs across membranes
Mechanisms of absorption
Drug application routes
Distribution of drugs
Metabolism of drugs
Pharmaceutical forms of drugs
Elimination of drugs
Clinical pharmacokinetics
Dose, dose-response, receptor concept in Pharmacology
Dose, dose-response, receptor concept in Pharmacology II
Biogenic amines & peptides
Biogenic amines & peptides II
Factors that change drug action
Principles of pharmacogenetics I
Principles of pharmacogenetics II
Drug interactions, antagonism, synergism
Pharmacokinetic interactions
Toxic effects of drugs
Tolerance to and dependence on drugs
Autacoids histamine & antagonists, serotonin
Serotonin antagonists
Bradykinin & antagonists
Eikosanoids & antagonists
Analgesic, antipyretic & antiinflammatory Drugs I
Analgesic, antipyretic & antiinflammatory Drugs II
New drug development principles
Chemotherapy of microbial diseases
Antiseptics & disinfectants
β - lactam antimicrobials

Practical:
The local and systemic effects of drugs
Enzyme induction phenomenon
Efficacy and potency of drugs
Additive and synergic interaction of agonistic drugs
Dose-response curves

MDM 230 GENERAL PATHOLOGY

Theoretical:

Introduction and tissue sampling & processing
Cell injury
Adaptations
Necrosis &apoptosis
Accumulations
Pathologic calcification
Edema
Hemorrhage, hyperemia & congestion
Trombosis
Embolism, ishcemia & infarct.
Shock & hypertension
Acute inflammation
Chronic inflammation
Systemic findings & types of inflammation
Healing
Repair
Introduction to neoplasia
Benign tumors
Malignant tumors
Nomenclature & classification of neoplasms
Carcinogenesis
Tumor grading & staging
Immunopathology
Environmental pathology
Nutritıonal diseases & genetics

Practical:

Cell Injury & Adaptations
Accumulations & Pneumoconiosis
Edema Thrombosis
Hemodynamic Disorders
Inflammation
Inflammation
Healing and Repai.
Benign&Malignant Tumors
Enviromental carcinogens

MD 244 COMMUNICATION SKILLS IN MEDICINE

Theoretical:

Introduction to communication skills
Basic communication skills
The medical history
Giving information
Breaking bad news
Taking a sexual history
Communicating with patients from differing cultural backgrounds
Guidelines on communicating with children&young people
Communicating with a patient’s family
Mistakes, complaints and litigation
Challenging consultations: Special problems in doctor-patient communication

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