



**ISTANBUL UNIVERSITY
CERRAHPASA MEDICAL FACULTY**

**BASIC MEDICAL SCIENCES
MINOR DEGREE PROGRAM**

SECOND YEAR

2007 – 2008

EDUCATIONAL PROGRAM

TABLE OF CONTENTS

1 – THE PROGRAM COORDINATION COMMITTEE	2
2 – BASIC MEDICAL SCIENCES MINOR DEGREE PROGRAM SECOND YEAR ACADEMIC STAFF	3
3 – ACADEMIC CALENDER 2007 – 2008	4
4 – THIRD SEMESTER EDUCATIONAL PROGRAM	5
5 – FOURTH SEMESTER EDUCATIONAL PROGRAM	19
6 – APPLICATIONAL PROGRAM	32

COORDINATOR : Prof. Dr. Ertuğrul TAŞAN

**BASIC MEDICAL SCIENCES MINOR DEGREE PROGRAM
SECOND YEAR – ACADEMIC STAFF**

THE PROGRAM COORDINATION COMMITTEE

DIRECTOR	Prof. Dr. Günnur YİĞİT
Anatomy	Prof. Dr. Ayşe Derya ERTEM
Biochemistry	Prof. Dr. Arzu SEVEN
Biophysics	Prof. Dr. Mehmet Can AKYOLCU
Histology	Prof. Dr. Faruk ALKAN
Medical Biology and Basic Genetics	Prof. Dr. Turgut ULUTİN
Microbiology	Prof. Dr. Yaşar BAĞDATLI
Physiology	Prof. Dr. Gülderen ŞAHİN
Biostatistics and Computer in Medicine	Prof. Dr. Ahmet DİRİCAN
Behavioral Sciences (Psychology):	Prof. Dr. Neşe KOCABAŞOĞLU

BASIC MEDICAL SCIENCES DEPARTMENTS

Chairman: Prof. Dr. Turgut ULUTİN

DEPARTMENT OF ANATOMY

Prof. Dr. Kaya ÖZKUŞ
Prof. Dr. Ayşe Derya ERTEM
Doç. Dr. Tania MARUR

DEPARTMENT OF BIOCHEMISTRY

Prof. Dr. Gülден BURÇAK
Prof. Dr. Orkide DONMA
Prof. Dr. Arzu SEVEN
Prof. Dr. M. Koray GÜMÜŞTAŞ
Doç. Dr. Yıldız DİNÇER

DEPARTMENT OF PHYSIOLOGY

Prof. Dr. Günnur YİĞİT
Prof. Dr. Lütfi ÇAKAR
Prof. Dr. Gülderen ŞAHİN
Prof. Dr. Ertan YURDAKOŞ
Prof. Dr. H. Oktay SEYMEN

DEPARTMENT OF MICROBIOLOGY

Prof. Dr. Yaşar BAĞDATLI
Prof. Dr. Arif KAYGUSUZ
Doç. Dr. Ömer KÜÇÜKBASMACI
Doç. Dr. Nevriye GÖNÜLLÜ

DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

Prof. Dr. Oktay ARDA

DEPARTMENT OF MEDICAL EDUCATION

Prof. Dr. Mehmet YILDIRIM

*Temel Tıp Bilimleri Ön Lisans Dönemi program kitapçığının hazırlanmasında
emeği geçen Uzm. Dr. M. Rifat YÜCEL'e teşekkür ederiz.*

Temel Tıp Bilimleri Bölümü

ACADEMIC CALENDER OF FIRST, SECOND AND THIRD YEAR CLASSES

OCTOBER 1, 2007	START OF THE ACADEMIC YEAR
OCTOBER 11 – 12, 2007	RAMADAN RELIGIOUS HOLIDAY
OCTOBER 29, 2007	REPUBLIC DAY HOLIDAY
NOVEMBER 10, 2007	ATATÜRK MEMORIAL DAY
NOVEMBER 19, 2007 – NOVEMBER 30, 2007	MID – SEMESTER EXAMS
DECEMBER 19 AFTERNOON AND DECEMBER 20 – 21, 2007	RELIGIOUS HOLIDAY
JANUARY 11, 2008	END OF FALL SEMESTER
JANUARY 14, 2008 – FEBRUARY 15, 2008	SEMESTER EXAMS
FEBRUARY 18, 2008 – MARCH 2, 2008	SEMESTER HOLIDAY
MARCH 3, 2008	START OF SPRING SEMESTER
MARCH 14, 2008	MEDICAL ANNIVERSARY
APRIL 7, 2008 – APRIL 18, 2008	MID – SEMESTER EXAMS
APRIL 23, 2008	NATIONAL INDEPENDENCE DAY
MAY 19, 2008	COMMEMORATIVE DAY OF ATATURK (NATIONAL HOLIDAY)
JUNE 13, 2008	END OF SPRING SEMESTER
JUNE 16, 2008 – JULY 8, 2008	FINAL EXAMS
JULY 7, 2008 – JULY 18, 2008	RE – SIT EXAMS
	SUMMER TERM

2007 – 2008 ACADEMIC CALENDER OF THIRD SEMESTER

OCTOBER 1, 2007	MONDAY
8.30 – 9.20	General Microbiology: Science of Microbiology (Doç. Dr. Ö. KÜÇÜKBASMACI)
9.30 – 10.20	General Microbiology: Introduction to bacteriology / Bacterial Classification (Doç. Dr. Ö. KÜÇÜKBASMACI)
10.30 – 11.20	General Anatomy: Introduction to General Anatomy (Prof. Dr. A. D. ERTEM)
11.30 – 12.20	General Anatomy: Viscera: Circulatory System (Prof. Dr. A. D. ERTEM)
13.30 – 15.30	Practice: Special Histology
OCTOBER 2, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Introduction to metabolism (Prof. Dr. A. SEVEN)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Biologic oxidation (Prof. Dr. A. SEVEN)
10.30 – 11.20	Special Histology: The Circulatory System (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: The Circulatory System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
OCTOBER 3, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Circulatory System: Circulatory System (Prof. Dr. A. D. ERTEM)
10.30 – 11.20	General Anatomy: Circulatory System: Circulatory System (Prof. Dr. A. D. ERTEM)
11.30 – 12.20	General Microbiology: Bacterial morphology, metabolism and growth (Doç. Dr. Ö. KÜÇÜKBASMACI)
13.30 – 15.30	Practice: Physiology of Systems
OCTOBER 4, 2007	THURSDAY
9.30 – 10.20	Physiology of Systems: Regulation of hemopoiesis (Prof. Dr. G. YİĞİT)
10.30 – 11.20	Physiology of Systems: Hemopoietic substances and control mechanisms of erythropoiesis (Prof. Dr. G. YİĞİT)
11.30 – 12.20	Special Histology: The Circulatory System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy

OCTOBER 5, 2007 FRIDAY
 8.30 – 10.30 Practice: General Microbiology
 10.30 – 11.20 Physiology of Systems: The functions of Hemoglobin and
 Physiologic Hemolysis (Prof. Dr. G. YİĞİT)
 11.30 – 12.20 Physiology of Systems: Leucopoiesis (Prof. Dr. G. YİĞİT)
 13.30 – 15.30 Practice: Metabolic Pathways in Biochemistry

OCTOBER 8, 2007 MONDAY
 8.30 – 9.20 General Microbiology: Bacterial Genetics
 (Doç. Dr. Ö. KÜÇÜKBASMACI)
 9.30 – 10.20 General Microbiology: Bacterial Genetics
 (Doç. Dr. Ö. KÜÇÜKBASMACI)
 10.30 – 11.20 General Anatomy: Circulatory System: Heart
 (Prof. Dr. A. D. ERTEM)
 11.30 – 12.20 General Anatomy: Circulatory System: Heart
 (Prof. Dr. A. D. ERTEM)
 13.30 – 15.30 Practice: Special Histology

OCTOBER 9, 2007 TUESDAY
 8.30 – 9.20 Metabolic Pathways in Biochemistry: Electron transport
 chain (Prof. Dr. A. SEVEN)
 9.30 – 10.20 Metabolic Pathways in Biochemistry: Oxidative
 phosphorylation (Prof. Dr. A. SEVEN)
 10.30 – 11.20 Special Histology: The Immun System & Lymphoid Organs
 (Prof. Dr. O. ARDA)
 11.30 – 12.20 Special Histology: The Immun System & Lymphoid Organs
 (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

OCTOBER 10, 2007 WEDNESDAY
 9.30 – 10.20 General Anatomy: Arteries of head, neck and upper limbs
 (Doç. Dr. T. MARUR)
 10.30 – 11.20 General Anatomy: Arteries of thorax and abdomen
 (Doç. Dr. T. MARUR)
 11.30 – 12.20 General Microbiology: Introduction to Virology:
 Classification, Structure & Replication
 (Doç. Dr. N. GÖNÜLLÜ)
 13.30 – 15.30 Practice: Physiology of Systems

OCTOBER 11, 2007 THURSDAY
 9.30 – 10.20 Physiology of Systems: Naturel immune system and
 inflamation (Prof. Dr. G. YİĞİT)
 10.30 – 11.20 Physiology of Systems: Spesific immune system
 (Prof. Dr. G. YİĞİT)

11.30 – 12.20 Special Histology: The Immun System & Lymphoid Organs
 (Prof. Dr. O. ARDA)

**OCTOBER 11, AFTERNOON AND OCTOBER 12, 2007
 RAMADAN RELIGIOUS HOLIDAY**

OCTOBER 15, 2007 MONDAY
 8.30 – 9.20 General Microbiology: Commensal and Pathogenic
 Microbial Flora in Humans
 (Doç. Dr. Ö. KÜÇÜKBASMACI)
 9.30 – 10.20 General Microbiology: Sterilisation, Disinfection &
 Antisepsis (Doç. Dr. N. GÖNÜLLÜ)
 10.30 – 11.20 General Anatomy: Arteries of pelvis and lower limbs
 (Doç. Dr. T. MARUR)
 11.30 – 12.20 General Anatomy: Spesific Introduction to Veins
 (Doç. Dr. T. MARUR)
 13.30 – 15.30 Practice: Special Histology

OCTOBER 16, 2007 TUESDAY
 8.30 – 9.20 Metabolic Pathways in Biochemistry: Carbohydrate
 metabolism (Prof. Dr. A. SEVEN)
 9.30 – 10.20 Metabolic Pathways in Biochemistry: Carbohydrate
 metabolism (Prof. Dr. A. SEVEN)
 10.30 – 11.20 Special Histology: Digestive Tract & Glands Associated
 with the Digestive Tract (Prof. Dr. O. ARDA)
 11.30 – 12.20 Special Histology: Digestive Tract & Glands Associated
 with the Digestive Tract (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

OCTOBER 17, 2007 WEDNESDAY
 9.30 – 10.20 General Anatomy: Specific Circulatory Systems
 (Doç. Dr. T. MARUR)
 10.30 – 11.20 General Anatomy: Specific Circulatory Systems
 (Doç. Dr. T. MARUR)
 11.30 – 12.20 General Microbiology: Bacteriology: Pathogenesis of
 Bacterial Infections (Doç. Dr. N. GÖNÜLLÜ)
 13.30 – 15.30 Practice: Physiology of Systems

OCTOBER 18, 2007 THURSDAY
 9.30 – 10.20 Physiology of Systems: The functions of platelets
 (Prof. Dr. G. YİĞİT)
 10.30 – 11.20 Physiology of Systems: Hemostasis mechanisms
 (Prof. Dr. G. YİĞİT)
 11.30 – 12.20 Special Histology: Digestive Tract & Glands Associated
 with the Digestive Tract (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

OCTOBER 19, 2007	FRIDAY
8.30 – 10.30	Practice: General Microbiology
10.30 – 11.20	Physiology of Systems: Coagulation mechanisms (Prof. Dr. G. YİĞİT)
11.30 – 12.20	Physiology of Systems: The blood groups (Prof. Dr. G. YİĞİT)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry
OCTOBER 22, 2007	MONDAY
8.30 – 9.20	General Microbiology: Basic Concepts in the Immun Response – I (Doç. Dr. N. GÖNÜLLÜ)
9.30 – 10.20	General Microbiology: Basic Concepts in the Immun Response – II (Doç. Dr. N. GÖNÜLLÜ)
10.30 – 11.20	General Anatomy: Lymphatic Organs (Doç. Dr. T. MARUR)
11.30 – 12.20	General Anatomy: Regional Lymph Nodes (Doç. Dr. T. MARUR)
13.30 – 15.30	Practice: Special Histology
OCTOBER 23, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
10.30 – 11.20	Special Histology: Digestive Tract & Glands Associated with the Digestive Tract (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: Digestive Tract & Glands Associated with the Digestive Tract (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
OCTOBER 24, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Introduction to Digestive System (Prof. Dr. A. D. ERTEM)
10.30 – 11.20	General Anatomy: Mouth, Pharynx and Esophagus (Prof. Dr. A. D. ERTEM)
11.30 – 12.20	General Microbiology: Bacteriology: Antibacterial Agents (1) (Doç. Dr. N. GÖNÜLLÜ)
13.30 – 15.30	Practice: Physiology of Systems
OCTOBER 25, 2007	THURSDAY
9.30 – 10.20	Physiology of Systems: Physiological anatomy of the heart (Prof. Dr. H. O. SEYMEN)
10.30 – 11.20	Physiology of Systems: The heart; normal sinus rhythm and abnormalities (Prof. Dr. H. O. SEYMEN)
11.30 – 12.20	Special Histology: Digestive Tract & Glands Associated with

13.30 – 15.30	the Digestive Tract (Prof. Dr. O. ARDA) Practice: General Anatomy
OCTOBER 26, 2007	FRIDAY
8.30 – 10.30	Practice: General Microbiology
10.30 – 11.20	Physiology of Systems: Mechanical events of the heart, cardiac cycle (Prof. Dr. H. O. SEYMEN)
11.30 – 12.20	Physiology of Systems: Pressure and volume changes in the atria and ventricles, Heart sounds (Prof. Dr. H. O. SEYMEN)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry
OCTOBER 29, 2007	MONDAY REPUBLIC DAY HOLIDAY
OCTOBER 30, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
10.30 – 11.20	Special Histology: Digestive Tract & Glands Associated with the Digestive Tract (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: The Respiratory System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
OCTOBER 31, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Digestive System: Stomach (Prof. Dr. A.D. ERTEM)
10.30 – 11.20	General Anatomy: Digestive System: Small and Large Intestine (Prof. Dr. A.D. ERTEM)
11.30 – 12.20	General Microbiology: Bacteriology: Antibacterial Agents (2) (Doç. Dr. N. GÖNÜLLÜ)
13.30 – 15.30	Practice: Physiology of Systems
NOVEMBER 1, 2007	THURSDAY
9.30 – 10.20	Physiology of Systems: Factors controlling cardiac output, Work output and O ₂ consumption of the heart, myocardial ischemia (Prof. Dr. H. O. SEYMEN)
10.30 – 11.20	Physiology of Systems: ECG Bipolar limb leads + the cardiac vector (Prof. Dr. N. YELMEN)
11.30 – 12.20	Special Histology: The Respiratory System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
NOVEMBER 2, 2007	FRIDAY
8.30 – 10.30	Practice: General Microbiology
10.30 – 11.20	Physiology of Systems: ECG unipolar leads

	(Prof. Dr. N. YELMEN)
11.30 – 12.20	Physiology of Systems: Physiological properties of the vascular system and dynamics of blood flow (Prof. Dr. N. YELMEN)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry
NOVEMBER 5, 2007	MONDAY
8.30 – 9.20	General Microbiology: Bacteriology: Staphylococcus (Doç. Dr. Ö. KÜÇÜKBASMACI)
9.30 – 10.20	General Microbiology: Bacteriology: Streptococcus, Enterococcus and other Gram – Positive Cocci (Doç. Dr. N. GÖNÜLLÜ)
10.30 – 11.20	General Anatomy: Accessory Digestive Organs (Prof. Dr. A.D. ERTEM)
11.30 – 12.20	General Anatomy: Introduction to Respiratory System, Nose and Paranasal Sinuses (Prof. Dr. A.D. ERTEM)
13.30 – 15.30	Practice: Special Histology
NOVEMBER 6, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Carbohydrate metabolism (Prof. Dr. A. SEVEN)
.....	Carbohydrate metabolism (Prof. Dr. A. SEVEN)
.....	Carbohydrate metabolism (Prof. Dr. A. SEVEN)
10.30 – 11.20	Special Histology: The Respiratory System (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: The Neuroendocrine Hypothalamo-Hypophyseal System & Adrenals, Islets of Langerhans, Thyroid, Parathyroids, & Pineal Gland (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
NOVEMBER 7, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Larynx (Doç. Dr. T. MARUR)
10.30 – 11.20	General Anatomy: Trachea and Lungs (Doç. Dr. T. MARUR)
11.30 – 12.20	General Microbiology: Bacteriology: Spor – forming Gram – Positive Bacilli: Bacillus & Clostridium Species (Doç. Dr. N. GÖNÜLLÜ)
13.30 – 15.30	Practice: Physiology of Systems
NOVEMBER 8, 2007	THURSDAY
9.30 – 10.20	Physiology of Systems: Arterial pressure, arterial pulse (Prof. Dr. N. YELMEN)
10.30 – 11.20	Physiology of Systems: Capillary circulation, Starling forces,

	filtration, reabsorption, edema, lymphatic circulation (Prof. Dr. N. YELMEN)
11.30 – 12.20	Special Histology: The Neuroendocrine Hypothalamo-Hypophyseal System & Adrenals, Islets of Langerhans, Thyroid, Parathyroids, & Pineal Gland (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
NOVEMBER 9, 2007	FRIDAY
8.30 – 10.30	Practice: General Microbiology
10.30 – 11.20	Physiology of Systems: Venous pressure, flow central venous pressure, jugular pulse (Prof. Dr. G. ŞİMŞEK)
11.30 – 12.20	Physiology of Systems: Regulation of blood pressure at rest and during exercise (Prof. Dr. G. ŞİMŞEK)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry
NOVEMBER 12, 2007	MONDAY
8.30 – 9.20	General Microbiology: Bacteriology: Non - spor – forming Gram – Positive Bacilli: Corynebacterium, Propionibacterium, Listeria, Erysipelothrix, Actinomycetes & Related Pathogens (Doç. Dr. Ö. KÜÇÜKBASMACI)
9.30 – 10.20	General Microbiology: Bacteriology: Enteric Gram – negative rods (Enterobacteriaceae) (Doç. Dr. Ö. KÜÇÜKBASMACI)
10.30 – 11.20	General Anatomy: Introduction to Genitourinary System (Doç. Dr. T. MARUR)
11.30 – 12.20	General Anatomy: Urinary System; Kidneys (Doç. Dr. T. MARUR)
13.30 – 15.30	Practice: Special Histology
NOVEMBER 13, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20	Special Histology: The Neuroendocrine Hypothalamo-Hypophyseal System & Adrenals, Islets of Langerhans, Thyroid, Parathyroids, & Pineal Gland (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: The Urinary System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
NOVEMBER 14, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Urethra, Urinary Bladder and Urethra (Prof. Dr. A. D. ERTEM)
10.30 – 11.20	General Anatomy: Introduction to Female Reproductive System: Ovaries and Uterine Tubes (Prof. Dr. A. D. ERTEM)

11.30 – 12.20 General Microbiology: Bacteriology: Pseudomonas, Acinetobacter, Uncommon Gram – negative Bacteria & Anaerobic Bacteria (Doç. Dr. N. GÖNÜLLÜ)
 13.30 – 15.30 Practice: Physiology of Systems

NOVEMBER 15, 2007 THURSDAY

9.30 – 10.20 Physiology of Systems: Circulation through special regions: Cerebral circulation (Prof. Dr. G. ŞİMŞEK)
 10.30 – 11.20 Physiology of Systems: Circulation through special regions: Coronary circulation (Prof. Dr. G. ŞİMŞEK)
 11.30 – 12.20 Special Histology: The Urinary System (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

NOVEMBER 16, 2007 FRIDAY

8.30 – 10.30 Practice: General Microbiology
 10.30 – 11.20 Physiology of Systems: Circulation through special regions: Coronary circulation (Prof. Dr. G. ŞİMŞEK)
 11.30 – 12.20 Physiology of Systems: Introduction of pulmonary physiology (Prof. Dr. L. ÇAKAR)
 13.30 – 15.30 Practice: Metabolic Pathways in Biochemistry

NOVEMBER 19, 2007 – NOVEMBER 30, 2007 MID – SEMESTER EXAMS

DECEMBER 3, 2007 MONDAY

8.30 – 9.20 General Microbiology: Vibrios, Campylobacters, Helicobacter & Associated Bacteria (Doç. Dr. N. GÖNÜLLÜ)
 9.30 – 10.20 General Microbiology: Bacteriology: Haemophilus, Bordetella & Brucella, Yersinia, Francisella & Pasteurella (Doç. Dr. N. GÖNÜLLÜ)
 10.30 – 11.20 General Anatomy: Uterus and Vagina (Prof. Dr. A. D. ERTEM)
 11.30 – 12.20 General Anatomy: Vulva (Prof. Dr. A. D. ERTEM)
 13.30 – 15.30 Practice: Special Histology

DECEMBER 4, 2007 TUESDAY

8.30 – 9.20 Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
 9.30 – 10.20 Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
 10.30 – 11.20 Special Histology: The Urinary System (Prof. Dr. O. ARDA)
 11.30 – 12.20 Special Histology: The Male Reproductive System (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

DECEMBER 5, 2007

9.30 – 10.20
 10.30 – 11.20
 11.30 – 12.20
 13.30 – 15.30

WEDNESDAY

General Anatomy: Male Reproductive System: Testis (Prof. Dr. K. ÖZKUŞ)
 General Anatomy: Genital Ducts, Glands and Organs (Prof. Dr. K. ÖZKUŞ)
 General Microbiology: Bacteriology: Neisseria; Legionella & unusual bacterial pathogens (Doç. Dr. N. GÖNÜLLÜ)
 Practice: Physiology of Systems

DECEMBER 6, 2007

9.30 – 10.20
 10.30 – 11.20
 11.30 – 12.20
 13.30 – 15.30

THURSDAY

Physiology of Systems: Mechanism of respiration: Inspiratory mechanisms (Prof. Dr. L. ÇAKAR)
 Physiology of Systems: Expiratory mechanisms: Compliance of the lungs and chest wall (Prof. Dr. L. ÇAKAR)
 Special Histology: The Male Reproductive System (Prof. Dr. O. ARDA)
 Practice: General Anatomy

DECEMBER 7, 2007

8.30 – 10.30
 10.30 – 11.20
 11.30 – 12.20
 13.30 – 15.30

FRIDAY

Practice: General Microbiology
 Physiology of Systems: Lung volume and capacities (Prof. Dr. L. ÇAKAR)
 Physiology of Systems: Dynamic lung function tests (Prof. Dr. L. ÇAKAR)
 Practice: Metabolic Pathways in Biochemistry

DECEMBER 10, 2007

8.30 – 9.20
 9.30 – 10.20
 10.30 – 11.20
 11.30 – 12.20
 13.30 – 15.30

MONDAY

General Microbiology: Bacteriology: Mycobacteria (Doç. Dr. Ö. KÜÇÜKBASMACI)
 General Microbiology: Bacteriology: Spirochetes & other spiral microorganisms, Mycoplasma & cell wall-defective bacteria (Doç. Dr. Ö. KÜÇÜKBASMACI)
 General Anatomy: Scrotum and Penis (Prof. Dr. K. ÖZKUŞ)
 General Anatomy: Introduction to Nervous System (Prof. Dr. K. ÖZKUŞ)
 Practice: Special Histology

DECEMBER 11, 2007

8.30 – 9.20
 9.30 – 10.20
 10.30 – 11.20

TUESDAY

Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
 Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
 Special Histology: The Male Reproductive System (Prof. Dr. O. ARDA)

11.30 – 12.20	Special Histology: The Female Reproductive System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
DECEMBER 12, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Introduction to Nervous System (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	General Anatomy: Introduction to Nervous System (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	General Microbiology: Bacteriology: Rickettsial diseases, Chlamydia (Doç. Dr. Ö. KÜÇÜKBASMACI)
13.30 – 15.30	Practice: Physiology of Systems
DECEMBER 13, 2007	THURSDAY
9.30 – 10.20	Physiology of Systems: Gas exchange in the lungs. Diffusion, ventilation and perfusion (Prof. Dr. L. ÇAKAR)
10.30 – 11.20	Physiology of Systems: Gases transport in the blood: O ₂ , CO ₂ , CO (Prof. Dr. L. ÇAKAR)
11.30 – 12.20	Special Histology: The Female Reproductive System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
DECEMBER 14, 2007	FRIDAY
8.30 – 10.30	Practice: General Microbiology
10.30 – 11.20	Physiology of Systems: Regulation of respiration: Neural and Chemical regulation (Prof. Dr. L. ÇAKAR)
11.30 – 12.20	Physiology of Systems: Control of ventilation during exercise and sleep, non-respiratory functions of the lungs (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry
DECEMBER 17, 2007	MONDAY
8.30 – 9.20	General Microbiology: Virology: Pathogenesis of Viral Infections (Doç. Dr. N.GÖNÜLLÜ)
9.30 – 10.20	General Microbiology: Virology: Papovaviruses, Adenoviruses, Poxviruses, Parvoviruses (Doç. Dr. N.GÖNÜLLÜ)
10.30 – 11.20	General Anatomy: Introduction to Peripheral Nervous System (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	General Anatomy: Introduction to Autonomic Nervous System (Prof. Dr. K. ÖZKUŞ)
13.30 – 15.30	Practice: Special Histology
DECEMBER 18, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)

9.30 – 10.20	Metabolic Pathways in Biochemistry: Lipid metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20	Special Histology: The Female Reproductive System (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: Skin (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
DECEMBER 19, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Spinal Nerve Plexuses (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	General Anatomy: Spinal Nerve Plexuses (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	General Microbiology: Virology: Human Herpesviruses (1) (Doç. Dr. Ö. KÜÇÜKBASMACI)
DECEMBER 19 AFTERNOON AND DECEMBER 20 – 21, 2007	RELIGIOUS HOLIDAY
DECEMBER 24, 2007	MONDAY
8.30 – 9.20	General Microbiology: Virology: Human Herpesviruses (2) (Doç. Dr. Ö. KÜÇÜKBASMACI)
9.30 – 10.20	General Microbiology: Virology: Picornaviruses, Reoviruses (Doç. Dr. Ö. KÜÇÜKBASMACI)
10.30 – 11.20	General Anatomy: Introduction to Endocrine Glands (Prof. Dr. A. D: ERTEM)
11.30 – 12.20	General Anatomy: Endocrine Organs (Prof. Dr. A. D: ERTEM)
13.30 – 15.30	Practice: Special Histology
DECEMBER 25, 2007	TUESDAY
8.30 – 9.20	Metabolic Pathways in Biochemistry: Amino acid metabolism (Prof. Dr. O. DONMA)
9.30 – 10.20	Metabolic Pathways in Biochemistry: Amino acid metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20	Special Histology: Skin (Prof. Dr. O. ARDA)
11.30 – 12.20	Special Histology: Skin (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: General Anatomy
DECEMBER 26, 2007	WEDNESDAY
9.30 – 10.20	General Anatomy: Sense Organs; Skin, Nose and Tongue (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	General Anatomy: Eye (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	General Microbiology: Paramyxoviruses, Orthomyxoviruses (Doç. Dr. Ö. KÜÇÜKBASMACI)
13.30 – 15.30	Practice: Physiology of Systems

DECEMBER 27, 2007 THURSDAY
 9.30 – 10.20 Physiology of Systems: Environmental physiology: Response to high altitude and increased ambient pressure (Prof. Dr. L. ÇAKAR)
 10.30 – 11.20 Physiology of Systems: Organization and innervation of gastrointestinal tract (Prof. Dr. G. ŞAHİN)
 11.30 – 12.20 Special Histology: The Sense Organs (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

DECEMBER 28, 2007 FRIDAY
 8.30 – 10.30 Practice: General Microbiology
 10.30 – 11.20 Physiology of Systems: Gastrointestinal hormones (Prof. Dr. G. ŞAHİN)
 11.30 – 12.20 Physiology of Systems: Mastication, control of salivary secretion, swallowing (Prof. Dr. G. ŞAHİN)
 13.30 – 15.30 Practice: Metabolic Pathways in Biochemistry

DECEMBER 31, 2007 MONDAY
 8.30 – 9.20 General Microbiology: Virology: Rhabdoviruses, Togaviruses, Filaviruses, Bunyaviruses, Filoviruses, Prions (Doç. Dr. N. GÖNÜLLÜ)
 9.30 – 10.20 General Microbiology: Virology: Retroviruses (Doç. Dr. N. GÖNÜLLÜ)
 10.30 – 11.20 General Anatomy: Ear: External and Middle Ear (Prof. Dr. K. ÖZKUŞ)
 11.30 – 12.20 General Anatomy: Inner Ear (Prof. Dr. K. ÖZKUŞ)
 13.30 – 15.30 Practice: Special Histology

JANUARY 1, 2008 TUESDAY NEW YEAR HOLIDAY
JANUARY 2, 2008 WEDNESDAY
 9.30 – 10.20 General Anatomy: Neck; Surface Anatomy of Upper Limbs (Doç. Dr. T. MARUR)
 10.30 – 11.20 General Anatomy: Deltoid and Axillary Regions: Arm, Elbow and Forearm (Prof. Dr. K. ÖZKUŞ)
 11.30 – 12.20 General Microbiology: Virology: Hepatitis viruses (1) (Doç. Dr. Ö. KÜÇÜKBASMACI)
 13.30 – 15.30 Practice: Physiology of Systems

JANUARY 3, 2008 THURSDAY
 9.30 – 10.20 Physiology of Systems: Stomach, anatomic considerations, regulation of gastric secretion (Prof. Dr. G. ŞAHİN)
 10.30 – 11.20 Physiology of Systems: Regulation of gastric motility and emptying (Prof. Dr. G. ŞAHİN)
 11.30 – 12.20 Special Histology: The Sense Organs (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

JANUARY 4, 2008 FRIDAY
 8.30 – 10.30 Practice: General Microbiology
 10.30 – 11.20 Physiology of Systems: Exocrine function of the pancreas (Prof. Dr. G. ŞAHİN)
 11.30 – 12.20 Physiology of Systems: Liver and biliary system (Prof. Dr. G. ŞAHİN)
 13.30 – 15.30 Practice: Metabolic Pathways in Biochemistry

JANUARY 7, 2008 MONDAY
 8.30 – 9.20 General Microbiology: Virology: Hepatitis viruses (2) (Doç. Dr. Ö. KÜÇÜKBASMACI)
 9.30 – 10.20 General Microbiology: Virology: Antiviral agents (Doç. Dr. N. GÖNÜLLÜ)
 10.30 – 11.20 General Anatomy: Wrist and Hand; Lower Limb (Prof. Dr. K. ÖZKUŞ)
 11.30 – 12.20 General Anatomy: Gluteal and Inguinal Regions, Knee, Leg, Ankle and Foot (Prof. Dr. K. ÖZKUŞ)
 13.30 – 15.30 Practice: Special Histology

JANUARY 8, 2008 TUESDAY
 8.30 – 9.20 Metabolic Pathways in Biochemistry: Amino acid metabolism (Prof. Dr. O. DONMA)
 9.30 – 10.20 Metabolic Pathways in Biochemistry: Amino acid metabolism (Prof. Dr. O. DONMA)
 10.30 – 11.20 Special Histology: The Sense Organs (Prof. Dr. O. ARDA)
 11.30 – 12.20 Special Histology: The Sense Organs (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

JANUARY 9, 2008 WEDNESDAY
 9.30 – 10.20 General Anatomy: Rewiev (Prof. Dr. K. ÖZKUŞ)
 10.30 – 11.20 General Anatomy: Rewiev (Prof. Dr. K. ÖZKUŞ)
 11.30 – 12.20 General Microbiology: Virology: Vaccines (Doç. Dr. N. GÖNÜLLÜ)
 13.30 – 15.30 Practice: Physiology of Systems

JANUARY 10, 2008 THURSDAY
 9.30 – 10.20 Physiology of Systems: Digestion and absorbtion of carbohydrates, proteins, lipids (Prof. Dr. G. ŞAHİN)
 10.30 – 11.20 Physiology of Systems: Secretion of small intestine (Prof. Dr. G. ŞAHİN)
 11.30 – 12.20 Special Histology: Free Lessons (Prof. Dr. O. ARDA)
 13.30 – 15.30 Practice: General Anatomy

JANUARY 11, 2008 FRIDAY
 8.30 – 10.30 Practice: General Microbiology

10.30 – 11.20	Physiology of Systems: Secretion of the large intestine (Prof. Dr. G. ŞAHİN)
11.30 – 12.20	Physiology of Systems: Measuring of the metabolic rate, factors effecting the metabolic rate (Prof. Dr. G. ŞAHİN)
13.30 – 15.30	Practice: Metabolic Pathways in Biochemistry

2007 - 2008 ACADEMIC CALENDAR OF FOURTH SEMESTER

JANUARY 11, 2008	END OF FALL SEMESTER
JANUARY 14, 2008 – FEBRUARY 15, 2008	SEMESTER EXAMS
FEBRUARY 18, 2008 – MARCH 2, 2008	SEMESTER HOLIDAY

MARCH 3, 2008	MONDAY
8.30 – 9.20	Medical Parasitology: Introduction to Parasitology, important terms of parasitology, definition of the relationships between individuals. General classification and morphology of Arthropoda phylum (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Entomology: Aspects of Insecta class, Mosquitoes (Culicidae), Phlebotomus (Psychodidae) (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Gametogenesis: Conversion of Germ Cells Into Male and Female Gametes (Prof. Dr. O. ARDA)
11.30 – 12.20	Embryology: First Week of Development: Ovulation to Implantation (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: Tissue and Gene Biochemistry
MARCH 4, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
10.30 – 11.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
11.30 – 12.20	Control Mechanisms in Physiology: Renal Physiology, Functions of the kidney, glomerular filtration (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 5, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Regional and Neuroanatomy: Thorax (Doç. Dr. T. MARUR)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MARCH 6, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Thorax and Mediastinum (Doç. Dr. T. MARUR)
10.30 – 11.20	Topographic and Neuroanatomy: Surface Anatomy of Viscera (Doç. Dr. T. MARUR)
11.30 – 12.20	Control Mechanisms in Physiology: : Tubular function mechanisms of tubular reabsorption and secretion (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Topographic and Neuroanatomy

MARCH 7, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Function of loop of Henle. The counter current mechanism (Prof. Dr. L. ÇAKAR)
10.30 – 11.20	Control Mechanisms in Physiology: Distal nephron, autoregulation of RBF and GFR (Prof. Dr. L. ÇAKAR)
MARCH 10, 2008	MONDAY
8.30 – 9.20	Medical Entomology: Types and agents of myiasis. Lice, pediculosis, medical significance of lice, fleas, flea infestations, Medical significance of fleas, Bedbugs (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Entomology: General classification and morphology of Arachnida class, Ticks, ticks-borne diseases, Mites, Scabies (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Second Week of Development: Bilaminar Germ Disc (Prof. Dr. O. ARDA)
11.30 – 12.20	Embryology: Third Week of Development: Trilaminar Germ Disc (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: Tissue and Gene Biochemistry
MARCH 11, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
10.30 – 11.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
11.30 – 12.20	Control Mechanisms in Physiology: Na ⁺ and K ⁺ balance. Diuretics and Micturation (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 12, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Introduction to Abdomen (Prof. Dr. A. D. ERTEM)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MARCH 13, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Anterolateral Abdominal Wall, Abdominal Cavity and Peritoneum (Prof. Dr. A.D. ERTEM)
10.30 – 11.20	Topographic and Neuroanatomy: Abdomen; Nerves and Vessels, Surface Anatomy of Abdominal Viscera (Prof. Dr. K. ÖZKUŞ)

11.30 – 12.20	Control Mechanisms in Physiology: Physiology of vision. Anatomic considerations, Image-forming mechanisms (Prof. Dr. G. ŞAHİN)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 14, 2008	FRIDAY MEDICAL ANNIVERSARY
MARCH 17, 2008	MONDAY
8.30 – 9.20	Medical Helminthology: Introduction to Helminthology, classification and morphology of Nematoda class, Enterobius vermicularis, enterobiosis, Ascaris lumbricoides, ascariidosis (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Helminthology: Trichuris trichura, trichurosis, Hookworms of medical importance (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Third to Eighth Week: Embryonic Period (Prof. Dr. O. ARDA)
11.30 – 12.20	Embryology: Third Month to Birth: The Fetus and Placenta (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: Tissue and Gene Biochemistry
MARCH 18, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
10.30 – 11.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
11.30 – 12.20	Control Mechanisms in Physiology: Photoreceptor mechanisms (Prof. Dr. G. ŞAHİN)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 19, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Pelvis: Viscera, Vessels and Nerves (Prof. Dr. K. ÖZKUŞ)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MARCH 20, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Perineum (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	Topographic and Neuroanatomy: Neck: Surface Anatomy: Neck Regions (Doç. Dr. T. MARUR)
11.30 – 12.20	Control Mechanisms in Physiology: Responses in the visual pathway (Prof. Dr. G. ŞAHİN)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 21, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Color vision – Eye movement (Prof. Dr. G. ŞAHİN)

10.30 – 11.20	Control Mechanisms in Physiology: Functional anatomy of the ear. Aspects of sound audiometry (Prof. Dr. L. ÇAKAR)
MARCH 24, 2008	MONDAY
8.30 – 9.20	Medical Helminthology: Aberrant nematode infections, visceral and ocular larva migrans (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Helminthology: Trichinella spiralis and trichinosis, Filarial worms (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Birth Defects and Prenatal Diagnosis (Prof. Dr. O. ARDA)
11.30 – 12.20	Embryology: Skeletal System (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: Tissue and Gene Biochemistry
MARCH 25, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
10.30 – 11.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
11.30 – 12.20	Control Mechanisms in Physiology: Functions of the cochlea, Central auditory pathways (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 26, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Neck; Fascia and Organs (Doç. Dr. T. MARUR)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MARCH 27, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Topographic Anatomy of the Neck (Doç. Dr. T. MARUR)
10.30 – 11.20	Topographic and Neuroanatomy: Head: Introduction, Nerves of the Skin (Prof. Dr. A. D. ERTEM)
11.30 – 12.20	Control Mechanisms in Physiology: Vestibular System (Prof. Dr. L. ÇAKAR)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MARCH 28, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Synaptic transmission (Prof. Dr. H. O. SEYMEN)
10.30 – 11.20	Control Mechanisms in Physiology: Sensation and sensory receptors (Prof. Dr. H. O. SEYMEN)
MARCH 31, 2008	MONDAY
8.30 – 9.20	Medical Helminthology: General aspects of Trematoda class,

9.30 – 10.20	Schistosoma spp. (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Medical Helminthology: Fasciola spp, Paragonimus spp, Clonoichis spp, Dicrocoelium dentriticum (Prof. Dr. Y. BAĞDATLI)
11.30 – 12.20	Embryology: Muscular System (Prof. Dr. O. ARDA)
13.30 – 15.30	Embryology: Body Cavities (Prof. Dr. O. ARDA)
	Practice: Tissue and Gene Biochemistry
APRIL 1, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
10.30 – 11.20	Tissue and Gene Biochemistry: Hormones (Prof. Dr. G. BURÇAK)
11.30 – 12.20	Control Mechanisms in Physiology: Reflexes: Monosynaptic reflexes (Prof. Dr. H. O. SEYMEN)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
APRIL 2, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Head: Regions (Prof. Dr. A. D. ERTEM)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
APRIL 3, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Surface Anatomy of the Head (Prof. Dr. A. D. ERTEM)
10.30 – 11.20	Topographic and Neuroanatomy: Review (Prof. Dr. A. D. ERTEM)
11.30 – 12.20	Control Mechanisms in Physiology: Reflexes: Polysynaptic reflexes (Prof. Dr. H. O. SEYMEN)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
APRIL 4, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Cutaneous, deep and visceral sensations (Prof. Dr. H. O. SEYMEN)
10.30 – 11.20	Control Mechanisms in Physiology: Pain, headache and thermal sensations (Prof. Dr. H. O. SEYMEN)
APRIL 7, 2008 – APRIL 18, 2008	MID – SEMESTER EXAMS
APRIL 21, 2008	MONDAY
8.30 – 9.20	Medical Helminthology: Cestoda class, larval and adult cestodes infections. Taeniosis (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Helminthology: Hydatid disease (hydatidosis) Echinococcus spp. (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Cardiovascular System (Prof. Dr. O. ARDA)

11.30 – 12.20 Embryology: Cardiovascular System (Prof. Dr. O. ARDA)
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

APRIL 22, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Erythrocytes and Functions of Hemoglobin (Prof. Dr. G. BURÇAK)
10.30 – 11.20 Tissue and Gene Biochemistry: Erythrocytes and Functions of Hemoglobin (Prof. Dr. G. BURÇAK)
11.30 – 12.20 Control Mechanisms in Physiology: Cortical control of motor function (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

APRIL 23, 2008

MONDAY NATIONAL INDEPENDENCE DAY

APRIL 24, 2008

THURSDAY

9.30 – 10.20 Topographic and Neuroanatomy: Back (Doç. Dr. T. MARUR)
10.30 – 11.20 Topographic and Neuroanatomy: Introduction to Neuroanatomy (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20 Control Mechanisms in Physiology: Corticospinal Tracts (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

APRIL 25, 2008

FRIDAY

9.30 – 10.20 Control Mechanisms in Physiology: Brain Stem / control of motor function (Prof. Dr. E. YURDAKOŞ)
10.30 – 11.20 Control Mechanisms in Physiology: Cerebellum (Prof. Dr. E. YURDAKOŞ)

APRIL 28, 2008

MONDAY

8.30 – 9.20 Medical Protozoology: Introduction to Protozoology, classification and morphology of Protozoa, Urogenital and intestinal protozoa, Trichomoniasis, Giardiasis, Amebiasis (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20 Medical Protozoology: Tissue dwelling protozoa, Toxoplasmosis, Pneumocystis (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20 Embryology: Respiratory System (Prof. Dr. O. ARDA)
11.30 – 12.20 Embryology: Digestive System (Prof. Dr. O. ARDA)
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

APRIL 29, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Hemoglobin Metabolism (Prof. Dr. G. BURÇAK)
10.30 – 11.20 Tissue and Gene Biochemistry: Hemoglobin Metabolism (Prof. Dr. G. BURÇAK)

11.30 – 12.20 Control Mechanisms in Physiology: Cerebellum (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

APRIL 30, 2008

WEDNESDAY

9.30 – 10.20 Topographic and Neuroanatomy: Introduction to Neuroanatomy (Prof. Dr. K. ÖZKUŞ)
10.30 – 12.30 Practice: Medical Parasitology
13.30 – 15.30 Practice: Control Mechanisms in Physiology

MAY 1, 2008

THURSDAY

9.30 – 10.20 Topographic and Neuroanatomy: Macroscopic Anatomy (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20 Topographic and Neuroanatomy: Telencephalon (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20 Control Mechanisms in Physiology: Basal Ganglia (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

MAY 2, 2008

FRIDAY

9.30 – 10.20 Control Mechanisms in Physiology: Basal Ganglia (Prof. Dr. E. YURDAKOŞ)
10.30 – 11.20 Control Mechanisms in Physiology: Reticular formation (Prof. Dr. E. YURDAKOŞ)

MAY 5, 2008

MONDAY

8.30 – 9.20 Medical Protozoology: Blood protozoa, Leishmania spp. (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20 Medical Protozoology: Trypanosoma spp. (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20 Embryology: Urogenital System (Prof. Dr. O. ARDA)
11.30 – 12.20 Embryology: Head and Neck (Prof. Dr. O. ARDA)
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

MAY 6, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Epithelial tissue (Prof. Dr. O. DONMA)
10.30 – 11.20 Tissue and Gene Biochemistry: Connective tissue (Prof. Dr. O. DONMA)
11.30 – 12.20 Control Mechanisms in Physiology: Thalamus (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

MAY 7, 2008

WEDNESDAY

9.30 – 10.20 Topographic and Neuroanatomy: Cortical Organization

10.30 – 12.30	(Prof. Dr. K. ÖZKUŞ)
13.30 – 15.30	Practice: Medical Parasitology
	Practice: Control Mechanisms in Physiology
MAY 8, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Telencephalon; Subcortical Anatomy (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	Topographic and Neuroanatomy: Diencephalon (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	Control Mechanisms in Physiology: The Electroencephalogram (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MAY 9, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Mechanisms of Sleep (Prof. Dr. E. YURDAKOŞ)
10.30 – 11.20	Control Mechanisms in Physiology: Hypothalamus (Prof. Dr. E. YURDAKOŞ)
MAY 12, 2008	MONDAY
8.30 – 9.20	Medical Protozoology: Plasmodium spp, malaria (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Parasitology: Plasmodium spp, malaria (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20	Embryology: Head and Neck (Prof. Dr. O. ARDA)
11.30 – 12.20	Embryology: Ear (Prof. Dr. O. ARDA)
13.30 – 15.30	Practice: Tissue and Gene Biochemistry
MAY 13, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Muscle tissue (Prof. Dr. O. DONMA)
10.30 – 11.20	Tissue and Gene Biochemistry: Nervous tissue (Prof. Dr. O. DONMA)
11.30 – 12.20	Control Mechanisms in Physiology: Hypothalamus (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MAY 14, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Brainstem; Midbrain (Prof. Dr. A.D. ERTEM)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MAY 15, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Brainstem; Pons (Prof. Dr. A.D. ERTEM)
10.30 – 11.20	Topographic and Neuroanatomy: Brainstem; Medulla

11.30 – 12.20	Oblongata (Prof. Dr. A. D. ERTEM)
	Control Mechanisms in Physiology: Autonomic Nervous System (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MAY 16, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: The Limbic System (Prof. Dr. E. YURDAKOŞ)
10.30 – 11.20	Control Mechanisms in Physiology: Mechanisms of Learning and Memory (Prof. Dr. E. YURDAKOŞ)
MAY 19, 2008	COMMEMORATIVE DAY OF ATATURK (NATIONAL HOLIDAY)
MAY 20, 2008	TUESDAY
9.30 – 10.20	Tissue and Gene Biochemistry: Nucleotide metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20	Tissue and Gene Biochemistry: Nucleotide metabolism (Prof. Dr. O. DONMA)
11.30 – 12.20	Control Mechanisms in Physiology: Association areas of the cerebral cortex (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MAY 21, 2008	WEDNESDAY
9.30 – 10.20	Topographic and Neuroanatomy: Cerebellum (Prof. Dr. A.D. ERTEM)
10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
MAY 22, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Blood Supply of Central Nervous System (Prof. Dr. A.D. ERTEM)
10.30 – 11.20	Topographic and Neuroanatomy: Meninges and Brain Ventricles (Prof. Dr. A.D. ERTEM)
11.30 – 12.20	Control Mechanisms in Physiology: Cerebral dominance (Prof. Dr. E. YURDAKOŞ)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
MAY 23, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Neurohypophysis, ADH (Prof. Dr. E. YURDAKOŞ)
10.30 – 11.20	Control Mechanisms in Physiology: Adrenal Cortex
	Hormones: Aldosteron, Cortisole (Prof. Dr. E. YURDAKOŞ)
MAY 26, 2008	MONDAY
8.30 – 9.20	Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20	Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)

10.30 – 11.20 Embryology: Eye (Prof. Dr. O. ARDA)
11.30 – 12.20 Embryology: Integumentary System (Prof. Dr. O. ARDA)
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

MAY 27, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)
11.30 – 12.20 Control Mechanisms in Physiology: Adrenal Cortex Hormones: Aldosterone, Cortisol (Prof. Dr. E. YURDAKOS)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

MAY 28, 2008

WEDNESDAY

9.30 – 10.20 Topographic and Neuroanatomy: Cranial Nerves (Prof. Dr. A.D. ERTEM)
10.30 – 12.30 Practice: Medical Parasitology
13.30 – 15.30 Practice: Control Mechanisms in Physiology

MAY 29, 2008

THURSDAY

9.30 – 10.20 Topographic and Neuroanatomy: Cranial Nerves (Prof. Dr. A.D. ERTEM)
10.30 – 11.20 Topographic and Neuroanatomy: Cranial Nerves (Prof. Dr. A.D. ERTEM)
11.30 – 12.20 Control Mechanisms in Physiology: Pituitary Hormones: Growth Hormone (Prof. Dr. G. YIĞIT)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

MAY 30, 2008

FRIDAY

9.30 – 10.20 Control Mechanisms in Physiology: The Thyroid Gland and T₃, T₄ hormones (Prof. Dr. G. YIĞIT)
10.30 – 11.20 Control Mechanisms in Physiology: Hyper and Hypothyroidism (Prof. Dr. G. YIĞIT)

JUNE 2, 2008

MONDAY

8.30 – 9.20 Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20 Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20 Embryology: Central Nervous System (Prof. Dr. O. ARDA)
11.30 – 12.20 Embryology: Central Nervous System (Prof. Dr. O. ARDA)
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

JUNE 3, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)

11.30 – 12.20 Control Mechanisms in Physiology: Glucose regulating hormones: Insulin, Glucagon, Somatostatin (Prof. Dr. G. YIĞIT)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

JUNE 4, 2008

WEDNESDAY

9.30 – 10.20 Topographic and Neuroanatomy: Spinal Nerves: Cervical and Brachial Plexuses (Prof. Dr. K. ÖZKUŞ)
10.30 – 12.30 Practice: Medical Parasitology
13.30 – 15.30 Practice: Control Mechanisms in Physiology

JUNE 5, 2008

THURSDAY

9.30 – 10.20 Topographic and Neuroanatomy: Spinal Nerves: Lumbar and Sacral Plexuses (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20 Topographic and Neuroanatomy: Anatomy of Autonomic Nervous System (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20 Control Mechanisms in Physiology: Hyperglycemia (Diabetes Mellitus), Hypoglycemia (Hyperinsulinemia) (Prof. Dr. G. YIĞIT)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

JUNE 6, 2008

FRIDAY

9.30 – 10.20 Control Mechanisms in Physiology: Ca²⁺ Regulation Hormones: PTH, Vit D₃, Calcitonin (Prof. Dr. G. YIĞIT)
10.30 – 11.20 Control Mechanisms in Physiology: Gonad Hormones and Reproductive Functions of Male (Prof. Dr. G. YIĞIT)

JUNE 9, 2008

MONDAY

8.30 – 9.20 Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)
9.30 – 10.20 Medical Parasitology: Mycology (Prof. Dr. Y. BAĞDATLI)
10.30 – 11.20 Embryology: Free Lesson
11.30 – 12.20 Embryology: Free Lesson
13.30 – 15.30 Practice: Tissue and Gene Biochemistry

JUNE 10, 2008

TUESDAY

9.30 – 10.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)
10.30 – 11.20 Tissue and Gene Biochemistry: Informational metabolism (Prof. Dr. O. DONMA)
11.30 – 12.20 Control Mechanisms in Physiology: Gonad Hormones and Reproductive Functions of Female (Prof. Dr. G. YIĞIT)
13.30 – 15.30 Practice: Topographic and Neuroanatomy

JUNE 11, 2008

WEDNESDAY

9.30 – 10.20 Topographic and Neuroanatomy: Autonomic Nervous System (Prof. Dr. K. ÖZKUŞ)

10.30 – 12.30	Practice: Medical Parasitology
13.30 – 15.30	Practice: Control Mechanisms in Physiology
JUNE 12, 2008	THURSDAY
9.30 – 10.20	Topographic and Neuroanatomy: Review (Prof. Dr. K. ÖZKUŞ)
10.30 – 11.20	Topographic and Neuroanatomy: Review (Prof. Dr. K. ÖZKUŞ)
11.30 – 12.20	Control Mechanisms in Physiology: Menstruation Cycle and Pregnancy (Prof. Dr. G. YİĞİT)
13.30 – 15.30	Practice: Topographic and Neuroanatomy
JUNE 13, 2008	FRIDAY
9.30 – 10.20	Control Mechanisms in Physiology: Parturation and Lactation Hormones (Prof. Dr. G. YİĞİT)
10.30 – 11.20	Control Mechanisms in Physiology: Free Lesson
JUNE 13, 2008	END OF SPRING SEMESTER
JUNE 16, 2008 – JULY 8, 2008	FINAL EXAMS
JULY 7, 2008 – JULY 18, 2008	RE – SIT EXAMS
	SUMMER TERM

THIRD AND FOURTH SEMESTER APPLICATIONAL PROGRAMS

SYSTEMATIC ANATOMY DEMONSTRATIONS (THIRD SEMESTER)

- D1 –Nervous system demonstration
- D2 –Cardiovascular system demonstration
- D3 –Organs demonstration

GENERAL ANATOMY (THIRD SEMESTER)

- General informations about cadavers, superficial anatomy
- Upper and lower limbs, superficial layers of the anterior aspect
- Upper and lower limbs, superficial layers of the anterior aspect
- Upper and lower limbs, deep layers of the anterior aspect
- Upper and lower limbs, deep layers of the anterior aspect
- Upper and lower limbs, superficial layers of the posterior aspect
- Upper and lower limbs, superficial layers of the posterior aspect
- Upper and lower limbs, deep layers of the posterior aspect
- Upper and lower limbs, deep layers of the posterior aspect
- Face and neck, superficial layers
- Face and neck, deep layers
- Face and neck, deep layers

TOPOGRAPHIC AND NEUROANATOMY (FOURTH SEMESTER)

- 1 – Thorax
- 2 – Heart
- 3 – Pleura and lungs
- 4 – Axilla
- 5 – Abdomen and it's regions
- 6 – Retroperitoneal space, pelvis and external genitalia
- 7 – Back
- 8 – Spinal cord
- 9 – Face
- 10 – Encephalon
- 11 – Encephalon (sectional anatomy)

**2006 – 2007 SECOND YEAR THIRD SEMESTER
METABOLIC PATHWAYS IN BIOCHEMISTRY LABORATORY SCHEDULE**

1. Glycolysis in Erythrocytes

Glycolysis , end products and lactic acidosis
Measurement of erythrocyte glucose consumption rate
Measurement of glucose concentration by glucose oxidase method
Measurement of hemoglobin concentration by cyanmethemoglobin method
Spectrophotometric measurement of lactic acid and its evaluation

2. Oral Glucose Tolerance Test (OGTT)

Criteria for applying OGTT and factors affecting glucose tolerance
Measurement of glucose concentration by glucose oxidase method
Drawing the OGTT curve and its evaluation
Comparison of venous, arterial and capillary glucose concentrations
Detection of glucose in urine (Fehling and Benedict methods)
Evaluation of glycosurias

3. Determination of Lipids and Plasma Lipoprotein Electrophoresis

Measurement of plasma total lipid concentration
Enzymatic measurement of plasma total cholesterol and HDL cholesterol
Enzymatic measurement of plasma triglycerides
Plasma lipoprotein electrophoresis
Evaluation of plasma lipids and lipoprotein fractions in lipoprotein metabolism disorders

4. Determination of Proteins and Serum Protein Electrophoresis

Methods for determination of proteins in serum , normal values
Normal plasma total protein and albumin levels
Determination of total protein concentration in serum by Kjeldahl method
Determination of total protein concentration in serum by Biuret method
Determination of albumin concentration in serum by Bromocresol green
Hypo- and hyperproteinemias
Laboratory techniques for separation and classification of proteins
Separation of albumin and globulins by salt precipitation
Fractionation of serum proteins by cellulose acetate electrophoresis
Evaluation of normal and pathological electrophoretograms

5. Determination of Urea, Creatinine and Renal Clearance Rate

Renal function parameters
Determination of urea in plasma by diacetylmonoxime method
Determination of creatinine in plasma by Jaffe method
Enzymatic measurement of urea in urine
Creatinine clearance test

Urea clearance test, standart and maximal clearances and evaluation of test results
Definition of most frequently seen renal diseases
Electrophoretic patterns and other laboratory findings in nephrotic syndrome and chronic renal failure

6. Aminoacidurias

Types of aminoacidurias
Detection of of phenylalanine metabolites in urine (Phenylketonuria)
Detection of of homogentisitic acid in urine (Alkaptonuria)
Detection of melanin in urine (Melaninuria)
Detection of cystine in urine (Cystinuria)
Detection of tryptophan metabolites in urine (Hartnup Disease)
Amino acids in urine and related enzyme deficiency in Maple Syrup Urine Disease

**2006 – 2007 SECOND YEAR FOURTH SEMESTER
TISSUE AND GENE BIOCHEMISTRY LABORATORY SCHEDULE**

1. Urine analysis

Detection of protein in urine by heat coagulation, sulfosalicylic acid potassium ferrocyanide and Heller's tests
Determination of protein in urine by Esbach reagent
Detection of glucose in urine (Fehling and Benedict tests)
Detection of acetone in urine (Weyl- Legal test)
Detection of acetacetic acid in urine (Gerhard test)
Detection of hemoglobin in urine (pyramidone test)
Detection of bilirubin in urine (Rosin-Trousseau and Gmelin tests)
Detection of urobilin in urine (Schlesinger test)
Detection of bile acids in urine (Hay and Pettenkoffer tests)

2. Analysis of extravascular biological fluids

Differentiation of exudates from transudates
(Rivalta , Morelli, Luccherini and Esbach tests)
Detection of protein in cerebrospinal fluid (CSF)
(Foam,Pandy, Weichbrodt and Nonne-Apelt tests)

3. Tissues

Glycogen detection in muscle tissue (Lugol test)
Purine, pentose, phosphate and protein detection tests in nucleoproteins prepared from Yeast
Solubility tests for connective tissue, preparation of gelatin from collagen, detection of tyrosin and phenol compounds (Millon's reaction), aromatic amino acids (xanthoprotein reaction) tryptophan (Hopkins-Cole reaction) and sulfur (lead acetate reaction), treatment of gelatin with various protein precipitating agents.
Detection of cholesterol (Salkowski and Lieberman-Burchard tests) and phosphate in nerve tissue

Detection of calcium, phosphate, magnesium chloride and sulphate in bone tissue

4. Enzymes in diagnosis of myocardial infarction

Creatine phosphokinase(CPK) isoenzymes. Determination of CPK-MB.

Lactate dehydrogenase (LDH) isoenzymes. Determination of total LDH activity

Determination of aspartate amino transferase (AST) activity

5. Hemoglobin electrophoresis, hemoglobinopathies and determination of bilirubin in serum

Cellulose acetate electrophoresis of hemoglobin.

Determination of bilirubin in serum (Van den Bergh reaction) direct and indirect bilirubins

Measurement of icterus index

6. Determination of Uric acid

Determination of uric acid in serum (Caraway method)

Hypo- and hyperuricemias

SPECIAL HISTOLOGY (THIRD SEMESTER)

Lab 1 CIRCULATORY SYSTEM:

- | | |
|--------------------------|------------|
| 1- Elastic artery | RF+Masson |
| 2- Muscular artery | SAF+Masson |
| 3- Vena | RF+Masson |
| 4- Vein and Nerve Bundle | RF+Mason |
| 5- Heart | H+E |

Lab 2 BLOOD CELLS AND HEMATOPOIETIC TISSUE:

- | | |
|----------------|--------|
| 1. Frog Blood | H+E |
| 2. Human Blood | Giemsa |
| 3. Bone Marrow | H+E |

Lab 3 IMMUNE SYSTEM:

- | | |
|------------|--------|
| 1. Tymus | H+E |
| 2. Lymph | H+E |
| 3. Spleen | H+E |
| 4. Spleen | SAF+HL |
| 5. Tonsils | H+L |

Lab 4 DIGESTIVE TRACT – I:

- | | |
|----------------------------|----------------------|
| 1. Enamel (Embryological) | Masson |
| 2. Embryonic teeth | Masson |
| 3. Teeth | Thionin+ Picrik Acid |
| 4. Filiform Papillae | Masson |
| 5. Fungi form papillae | Masson |
| 6. Foliate Papillae | Masson |

7. Circumvallated papillae Masson

Lab 5 DIGESTIVE TRACT – II:

- | | |
|-----------------------------------|------------|
| 1- Esophagus (Cross Section) | Masson |
| 2- Esophagus (Horizontal section) | PAS+Masson |
| 3- Esophagus+ Cardia | PAS+HL |
| 4- Fundus | H+E |
| 5- Pylorus | H+E |
| 6- Pylorus- Duodenum | H+E |
| 7- Duodenum | H+E |
| 8- Jejunum | H+E |
| 9- Ileum | H+E |
| 10- Large Intestine | PAS+Masson |
| 11- Appendix | H+E |

Lab 6 DIGESTIVE TRACT – III:

- | | |
|------------------------|------------|
| 1- Parotid Gland | H+E |
| 2- Submandibular Gland | PAS+Masson |
| 3- Sublingual Gland | H+E |
| 4- Liver (Human) | H+E |
| 5- Liver (Pig) | PAS+Masson |
| 6- Gallbladder | H+E |

Lab 7 RESPIRATORY SYSTEM:

- | | |
|-----------------------------------|------------|
| 1. Trachea (Cross section) | H+E |
| 2. Trachea (Longitudinal section) | PAS+Masson |
| 3. Bronchus | H+E |
| 4. Lung | H+E |
| 5. Lung | SAF+HL |

Lab 8 SKIN AND URINARY SYSTEM:

- | | |
|--------------------|-------------|
| 1. Skin (no hair) | Masson |
| 2. Skin (hair) | Masson |
| 3. Kidney | H+E |
| 4. Kidney | PAS+HL |
| 5. Kidney : Tripan | Kernecthrot |
| 6. Urethra | Masson |
| 7. Bladder | Masson |

Lab 9 ENDOCRINE SYSTEM:

- | | |
|---------------|---------------------|
| 1. Hypophysis | H+E |
| 2. Hypophysis | Herlan |
| 3. Adrenals | H+E |
| 4. Adrenals.: | (Bichromatic) + H+E |

Lab 10 MALE REPRODUCTIVE SYSTEM:

- | | |
|----------------------|------------------------|
| 1. Testis | H+E |
| 2. Ductus Deferens | Masson |
| 3. Epididymis | H+Light Green (Masson) |
| 4. Seminal Vesicle | Masson |
| 5. Prostate (Dog) | Masson |
| 6. Prostate (Human) | Masson |

Lab 11 FEMALE REPRODUCTIVE SYSTEM AND EYE:

- | | |
|------------------------------------|--------|
| 1- Ovary | Masson |
| 1. Uterine Tube | Masson |
| 2. Uterus | Masson |
| 3. Endometrial Proliferative phase | H+E |
| 4. Endometrial Secretory phase | H+E |
| 5. Placenta | H+E |
| 6. Vagina | Masson |
| 7. Eye | H+E |

GENERAL MICROBIOLOGY (THIRD SEMESTER)

- 1- Introduction to The Microbiology Laboratory
 - A) Microbiology Lab Safety
 - B) Use of The Microscope
 - C) Observation of Motility and Introduction to Simple Staining
- 2- Sterilization, Disinfection and Antisepsis
- 3- Staining Techniques
- 4- Cultivation of Bacteria
- 5- Isolation and Identification of Enteric Gram-Negative Rods
- 6- Isolation and Identification of Nonfermentative Gram-Negative Bacilli
- 7- Isolation and Identification of Gram-Positive and Gram-Negative Cocci
- 8- Laboratory Diagnosis of Mycobacterium
- 9- Determination of Antimicrobial Susceptibilities
- 10- Serologic and Molecular Methods

MEDICAL PARASITOLOGY (FOURTH SEMESTER)**MEDICAL ENTOMOLOGY – 1****Order: Diptera**

Family: Culicidae (Mosquitoes)

1 – Anopheles spp.

2 – Culex spp

Family: Phlebotomidae

3 – Phlebotomus spp. (Sand fly)

Family: Muscidae

1 – Musca domestica (house fly)

2 – Lucilia spp

3 – Calliphora spp

4 – Sarcophaga spp

5 – Larvae causing myiasis

6 – Diptera larvae

MEDICAL ENTOMOLOGY – 2

1 – Order: Anoplura (Lice)

2 – Order: Siphonaptera (Fleas)

3 – Order: Hemiptera (Bed bugs)

MEDICAL ENTOMOLOGY – 3

1 – Order: Acarina (Mites and ticks)

1 – Family: Ixodidae (hard ticks)

2 – Family: Argasidae (soft ticks)

3 – Sarcoptes scabiei (Mange)

HELMINTHOLOGY – 4

A – 1) Adult Ascaris lumbricoides

B – 2) Trichuris trichura

C – 3) Enterobius vermicularis

D – 4) Hirudo medicinalis

E – 5) Toxocara canis

F – 6) Hook-worm egg

HELMINTHOLOGY – 5

Parasitism of Trematoda class

a) General aspects of trematoda

b) Trematoda causing infections in human

– Fasciola hepatica

– Dicrocoelium dentriticum

– Schistosoma spp

– Paragonimus westermani, Clonorchis sinensis

HELMINTHOLOGY – 6

Parasitism of Cestoda class

- a) General aspects of Cestoda
- b) Cestods causing infections in humans
 - Taenia saginata
 - Taenia solium
 - Echinococcus granulosus
 - Echinococcus multilocularis
 - Hymenolepis nana
 - Hymenolepis diminuta
 - Diphyllbothrium latum

PROTOZOOLOGY – 7 Tissue dwelling protozoa

- 1 – Plasmodium (P. vivax, P. falciparum)
- 2 – Leishmania spp
- 3 – Trypanosoma spp
- 4 – Toxoplasma gondii
- 5 – Trichomonas vaginalis

MYCOLOGY – 8

- A – General information on mycology
- B – Diagnostic methods
- C – Systemic infections caused by yeasts

MYCOLOGY – 9 Laboratory diagnosis of superficial mycosis

- a) Dermatofits
 - Trichophyton
 - Epidermophyton
 - Microsporum
- b) Candida
- c) Pityriasis versicolor

PHYSIOLOGY OF SYSTEMS (THIRD SEMESTER)

1 – CARDIAC PHYSIOLOGY

- a – Recording of the heart beats (recording of contractions of frog heart)
- b – Effects of the altered temperature in the heart rate
- c – Extrasystol or premature beat
- d – Application of stannius ligatures. AV block.
- e – Effects of increased Ca^{++} and K^{+} ion concentrations on the activity of the heart
- f – Ciliary movements

2 – CARDIOVASCULAR PHYSIOLOGY

- a – Heart sounds
- b – Measurement of arterial blood pressure
- c – ECG
- d – Arterial pulse
- e – Functions of the venous valves in the human forearm (Harvey's experiment)

3 – HEMATOLOGY

- a – Hematocrit Determination
- b – Counting of Erythrocytes by hemocytometer
- c – Determining the hemoglobin content
- d – Calculation of MCV, MCH, MCHC values
- e – Erythrocyte Sedimentation Rate

4 – HEMATOLOGY

- a – Counting of leucocytes
- b – Counting of thrombocytes
- c – Differential count of leucocytes:
Preparation and study of a stained blood smear.
- d – The relationship serum and clot
- e – Determination of the blood coagulation time
- f – Determination of the bleeding time
- g – Determination of the blood group
- h – Determination Rh group using complete anti D

5 – RESPIRATION

- a – Respiratory frequency, Apnea, Voluntary apnoea, Periodic breathing in normal human subject.
- b – Demonstration of respiratory regulation and some of the factors affecting it

6 – RESPIRATION

- a – Measurement of some of the lung volume and capacities by spirometric methods
- b – Demonstration on the artificial lung model of the pressure changes in the intrapleural and intrapulmonary cavities during the respiratory movements
- c – Application of artificial ventilation on human subject

k – Determination of reaction time in human body.

7 – CARDIOVASCULAR PHYSIOLOGY

- a – Effects of posture (gravity) on blood pressure
- b – Change of blood pressure during exercise (isotonic and isometric)
- c – Intra arterial recording of arterial pressure in experimental animals (rabbit) and regulation of blood pressure.

THE CONTROL MECHANISMS IN PHYSIOLOGY (FOURTH SEMESTER)

1 – METABOLISM

- a – Measuring of the energy consumption by open system and indirect measuring of the metabolism by way of O₂ consumption and CO₂ production.
- b – Drawing of penduler movements in isolated bowel segment and effect of chemical stimuli

2 – PHYSIOLOGY OF THE EYE

- a – Pupillary reflexes
- b – Formation of the retinal image.
- c – Determination of the near point of the eye by Schener optometer.
- d – Ophthalmoscopic vision of the retinal vessels.
- e – Ophthalmoscope
- f – Determination of the visual activity of the human
- g – Explanation of the binocular vision.
- h – Successive and simultaneous contrast.
- i – Positive and negative after image.
- j – Color blindness

3 – HEARING AND BALANCE

- a – Sound localization
- b – Investigation of middle ear functions: Rinne's and Weber's tests.
- c – Quantitative measurement of the threshold for hearing with a pure tone audimeter: Audiometry.
- d – Functions of canalis semicircularis and compensation reactions
- e – Cutaneous localization of pain, pressure and thermal sensations.
- f – Two-point discrimination, topognosis, stereognosis, vibratory sensibility.
- g – Measuring of the diameter of the cornea by ophthalmometre
- h – Determination of blind spot.
- i – Determination of visual field by perimetry, localization of blind spot.

4 – MUSCLE PHYSIOLOGY REFLEXES AND SYNAPTIC TRANSMISSION

- a – Spinal shock in frog and spinal reflexes effect of mechanical stimulus.
- b – Spinal reflex: Effect of electrical stimulus.
- c – Spinal reflex: Effect of chemical stimulus.
- d – Determination of total reflex time.
- e – Effect of Strychnin on reflex excitability.
- f – Tendon reflexes.
- g – Skin reflexes.
- h – Mucosal reflexes.
- i – Observations on deserebrated frog.
- j – Termination of the reflex activity.