COURSE INFORMATON					
Course Title	Code	Phase/Semester	L+P Hour	Credits	ECTS
Basic Medical Sciences II	MED 203	2 / 3-4	599+ 129	-	53

^{*}ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prereguisites	Phase 1	/Semeste	er 1-2
•	MED	104	Introduction to Basic Medical Sciences

Language of Instruction	English
Course Level	Second-cycle higher education (i.e. QF-EHEA-2, EQF-LLL-7, TYYÇ-7) with Master's Degree/ "Regulated Professions" legislation by EU 2005/36/EC Directive
Course Type	Compulsory Professional (Knowledge and Skills: physiopathological processes, pathological processes; introduction to clinical practice-advanced clinical skills)
Course Coordinators	COORDINATION COMMITTEE (TEACHING YEAR 2019 – 2020) Burcu GEMİCİ BAŞOL, PhD Assoc. Prof. (Coordinator) Deniz KIRAÇ, PhD Assoc. Prof. (Co-Coordinator) Alev CUMBUL, PhD Assist. Prof. (Co-Coordinator) Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof. (Co-Coordinator) Sıtkı TIPLAMAZ, MD, Asist. Prof. (Co-Coordinator) Soner DOĞAN, PhD Prof. (Co-Coordinator) PBL COORDINATION COMMITTEE Serdar ÖZDEMİR, MD PhD Assist. Prof. (Coordinator) Deniz KIRAÇ, PhD Assoc. Prof. (Co-Coordinator) Güldal İzbırak, Prof. (Co-Coordinator)
Goals	 In evidence based manner,; To convey knowledge on biophysical, biological, anatomical, embryological, histological, physiological, biochemical, microbiological and immunological conditions of systems, To convey introductory information on tissue damage and neoplasis related to systems, To convey basic knowledge at the introductory level for clinics, To equip with basic clinical skills (interventional or non-interventional) required for the practice of medical profession; To equip with skills for scientific project preparation.

Course Components:
COMMITTEE I Cardiovascular System (6 weeks)
COMMITTEE II Respiratory System (6 weeks)
COMMITTEE III Gastrointestinal System (7 weeks)
COMMITTEE IV Nervous System (8 weeks)
COMMITTEE V Endocrine and Urogenital Systems (8 weeks)

For further details please see Academic Program Book of Phase II at https://med.yeditepe.edu.tr/sites/default/files/p2 2023 apk 21.10.2022-zip.pdf

CONTENT of COURSE

Lecture	Anatomy Department Hour				
Introduction to Cardiovascular System	Lecture		Practical	Committee	
Pericardium and Outer Surface of the Heart 1 1 1 1 1 1 1 1 1			Tractical		
Thoracic Cavity & Mediastinum	<u> </u>			-	
Chambers of the Heart 2 1 1 1 1 1 1 1 1 1	Pericardium and Outer Surface of the Heart				
Great Vessels of the Heart				1	
Major Vessels of the Body	Chambers of the Heart	2		1	
Coronary arteries, Cardiac Veins, and Cardiac Conduction System 2 1 Introduction to Lymphatic System 1 1 1 Circulation of Lymph 1 1 1 Pericardium, Duter Surface, Chambers / Coronary Arteries and Cardiac Veins/ Gental Vessels Of The Hear 1 1 Review of Cardiovascular anatomy 1 1 1 Thoracic Wall, Cavity, Mediastinum/ Great Vessels Of The Body And Lymphatic System 1 1 1 Introduction to Respiratory System 1 2 2 1 2 Introduction to Respiratory System 1 2 <t< td=""><td>Great Vessels of the Heart</td><td>1</td><td></td><td>1</td></t<>	Great Vessels of the Heart	1		1	
Introduction to Lymphatic System	Major Vessels of the Body	1		1	
Circulation of Lymph 1 1 1 Percardium, Duter Surface, Chambers / Coronary Arteries and Cardiac Veins/ Great 1 1 1 Vessels OT The Hear 1 1 1 1 Fetal Circulation 1 1 1 1 Review of Cardiovascular anatomy 1 1 1 1 Thoracic Wall, Cavity, Mediastinum/ Great Vessels Of The Body And Lymphatic System 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2	Coronary arteries, Cardiac Veins, and Cardiac Conduction System	2		1	
Penicardium, Outer Surface, Chambers / Coronary Arteries and Cardiac Veins/ Great Vessels Of The Hear Vessels Of The Hear Fetal Circulation	Introduction to Lymphatic System			1	
Vessels Of The Hear 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 3 2 3 3		1		1	
Review of Cardiovascular anatomy			1	1	
Thoracic Wall, Cavity, Mediastinum/ Great Vessels Of The Body And Lymphatic System	Fetal Circulation	1		1	
System 1 1 Introduction to Respiratory System 1 2 Nasal Anatomy and Paranasal Sinuses 1 2 The Pharynx 2 2 The Larynx 2 2 The Trachea 1 2 The Lungs 1 2 Pleura and Diaphragm 2 2 Review of the Respiratory System 1 2 Larynx- Pleura and Diaphragm 1 2 Gif Development 2 3 Gif Development 2 3 Crail Cavity 2 3 Esophagus & Stomach 2 3 Duodenum 2 3 Small Intestine 2 3 Large Intestine 2 3 Liver 1 3 Biliary System 1 3 The Pancreas and Spleen 1 3 Peritoneal and Abdominal Cavity 1 3 Abdominal Wall Topographic Anatomy 1 3	Review of Cardiovascular anatomy	1			
Introduction to Respiratory System			1	1	
The Pharynx	•	1		2	
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Brainstem 3 4					
	Cranial Nerves	4		4	
Spinal Cord/Brainstem/Cranial Nerves 1 4			1	•	

Content

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Cerebellum	2		4
Diencephalon	3		4
Basal Ganglia	2		4
Cerebellum/ Diencephalon/Basal Ganglia		1	4
Telencephalon	3		4
Limbic System	2		4
Ascending and Descending Pathways of the CNS	2		4
Meninges and Dural Venous Sinuses	2		4
Vasculature of the CNS	2		4
Telencephalon/ Limbic System /CNS Vessels/Dural Sinuses/Meninges/Ventricles		1	4
Eye and Orbit	3		4
Taste and Smell Pathways	2		4
Ear and Auditory Pathways	3		4
Introduction to Autonomic Nervous System	1		4
Sympathetic Nervous System	2		4
Parasympathetic Nervous System	2		4
Skin, its derivatives and the Mammary Glands	1		4
Eye and Orbit		1	4
Ear and Auditory Pathways		1	4
Skin And Mammary Glands/Sympathetic Parasympathetic N.S		1	4
Introduction to Urinary System	1		5
The Kidneys	2		5
Urinary Tracts and Suprarenal Glands	1		5
Introduction to Genital Systems	1		5
Male Genital Organs	2		5
Female Genital Organs	2		5
Nerves of the Pelvis	1		5
Vasculature of the Pelvis	1		5
Endocrine Organs	2		5
Urinary System		1	5
Male Genital Organs		1	5
Perineum and Ischiorectal Fossa	1		5
Review of the Urinary System	1		5
Female Genital Organs		1	5
Nerves and Vasculature of the Pelvis		1	5
Perineum and Ischiorectal Fossa		1	5

Biophysi				
Biostatis	tics	Dep	artmer	١t

	Hour		
Lecture	Theoretical	Practical	Committee
Introduction to Bio-electromagnetics:	1	0	1
Introduction to Bio-electromagnetics: Electric Field	1	0	1
Introduction to Bio-electromagnetics: Electromagnetic Field	1	0	1
Bio-electromagnetic Effects on the Heart	1	0	1
Hemorheology	2	0	1
Biophysics of Hemodynamics	1	0	1
Measurements of Different Hemodynamic Parameters	1	0	1
Principle of Surface Tension, Alveolar Mechanic	2	0	2
Modeling in Circulatory, Respiratory Systems	2	0	2
Bio-thermodynamics, Laws of Thermodynamics	1	0	3
The Zeroth and First Laws of Thermodynamics	1	0	3
Applications of the First Law to Isothermal, Adiabatic, Isochoric, Isobaric Processes, Enthalpy	2	0	3
The Second Law of Thermodynamics. Entropy, Free Energy, Boltzmann Distribution (2- Hours)	2	0	3
Energy Transformation and Distribution in Bio-molecular Systems	2	0	3
Repetition all of the Materia	2	0	3
Lecture	Hour		Committee
Lecture	Theoretic al	Practical	Committee
Sampling, Data Collection and Data Processing	1	0	1
Statistical Decision Theory, Test of Hypothesis and Significance	1	0	1
Test Hypotheses and Significance in Large Samples	4	0	2
Test Hypotheses and Significance Chi-Square Test	2	0	3
	2	0	3
Test Hypotheses and Significance- Z-Test		0	4
Test Hypotheses and Significance- Z-Test Test Hypotheses and Significance t-Test	2		
	2 2	0	4
Test Hypotheses and Significance t-Test			5
Test Hypotheses and Significance t-Test Correlation	2	0	· .

	Hour	Hour		
Lecture	Theoretical	Practical	Committee	
Functions of Hemoglobin	2	0	1	
Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin	2	0	1	
Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin	2	0	1	
Degradation of Hemoglobin	2	0	1	
Blood Coagulation, Primary Hemostasis	1	0	1	
Secondary Hemostasis, Procoagulation, Anticoagulation, Fibrinolysis	1	0	1	
Disorders Concerning Hemoglobin Metabolism	2	0	1	
Peripheral Blood Smear	0	2	1	
Digestion and Absorption of Lipids	2	0	3	
Transport of Lipids in Plasma	2	0	3	
Cholesterol Metabolism	2	0	3	
Lipogenesis, Triacylglycerol Synthesis	2	0	3	
Lipolysis	2	0	3	
Oxidation of Fatty Acids	2	0	3	
Ketone Bodies	2	0	3	
Digestion and Absorption of Proteins	2	0	3	
Metabolisms of Individual Amino Acids	2	0	3	
Urea Cycle	2	0	3	
Metabolic Interrelationships and Provision of Tissue Fuels	2	0	3	
Citric Acid Cycle	2	0	3	
Purine and Pyrimidine Metabolism	2	0	3	
Metabolic Interrelationships and Provision of Tissue Fuels	2	0	3	
Xenobiotic Metabolism	2	0	3	
Overview of Metabolism	2	0	3	
Lipid Determination in Blood	0	2	3	
Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors	4	0	5	
Hormones of Hypothalamus and Pituitary	1	0	5	
Thyroid Hormones	1	0	5	
Hormones of Hypothalamus and Pituitary	2	0	5	
Hormones of Adrenal Cortex and Adrenal Medulla	2	0	5	
PTH, Calcitonin, Calcitriol	2	0	5	
Insulin, Glucagon	2	0	5	
Minerals	2	0	5	
Vitamins	2	0	5	
Insulin, Glucagon	2	0	5	
Hormones Regulating Calcium Metabolism	2	0	5	
Urine Analysis	0	2	5	

Pharmacology Department

	Hour		
Lecture	Theoretical	Practical	Committee
Scope of Pharmacology and Passage of Drugs Across Membranes	1		4
Drug Distribution	1		4
Drug Metabolism	2		4
Drug Elimination	2		4
Drug Metabolism Practical		2	4
Dopamine and Drugs Effecting Dopaminergic System	1		4
Serotonin and Drugs Effecting Serotonergic System of CNS	1		4
Drug Application Routes and Pharmaceutical Forms of Drugs	1		4
Mechanism of Drug Action	2		5
Post-receptor Events and Second Messengers	1		5
Introduction to Rational Pharmacotherapy	1		5
Eicosanoids	1		5
Introduction to Drug Development	1		5
Development of Biopharmaceuticals	1		5
Pharmacogenetics & Pharmacogenomics	2		5

Drug Toxicity		2		5	
Pharmacology Practice Efficacy and Potency			2	5	
Physiology Department					
Lecture	Н	our		Comm	ittoo
		heoretical	Practical		ittee
Further of Blood	2			1	
Erythrocyte Leukocytes	1			1	
Leukocytes & Lymphocytes	1			1	
Regulation of Cardiac Function	2			1	
Platelets and Coagulation	2			1	
Blood Types and Transfusion Reactions Rhythmical Excitation of the Heart	2			1	
Hematocrit Determination and Blood Typing & Bleeding Time			1	1	
Cardiac Arrhythmias	2			1	
Principles of Electrocardiography	1			1	
Electrocardiographic Interpretation of Cardiac Abnormalities Microcirculation and the Lymphatic System	1			1	
Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow	1			1	
Nervous Regulation of the Circulation	2			1	
Principles of Hemodynamics	2			1	
ECG I (Laboratory)			1	1	
Vascular Distensibility and Functions of Arterial and Venous Systems	2			1	
Coronary Circulation Heart Valves and Heart Sounds	2			1	
Circulatory Shock and Physiology of Its Treatment	1			1	
Cardiac Failure	1			1	•
Local and Humoral Control of Blood Flow by the Tissues	2		4	1	
ECG II (Laboratory) Blood Pressure (Laboratory)			1	1	
Heart Sounds (Laboratory)			1	1	
Local and Humoral Control of Blood Flow by the Tissues	1			1	
Pulmonary Circulation, Pulmonary Edema, Pleural Fluid	2			2	
Pulmonary Ventilation	2			2	
Diffusion of Blood Gases Transport of Blood Gases	2			2	
Regulation of Respiration	2			2	
Aviation, High-Altitude and Space Physiology	1			2	
Physiology of Deep-Sea Diving and Hyperbaric Conditions	2			2	
Sports Physiology Exercise and Metabolism (Laboratory)	2		1	2	
Spirometry (Laboratory)			1	2	
Introduction to Pathophysiology of Respiratory System	2			2	
Gastrointestinal Functions	2			3	
Propulsion and Mixing Movements in the GI Tract	2			3	
Digestion and Absorbtion in the Gastrointestinal Tract Energetics and Metabolic Rate	2			3	
Secretory Functions of the Alimentary Tract	2			3	
Regulation of Feeding and Obesity	2			3	
Body Temperature and Its Regulation	2			3	
Physiology of Gastrointestinal Disorders	2			3	
Liver as Organ Digestive System	1		1	3	
Organization of Nervous System	1			4	
Neuron and Neuroglia	1			4	
Synapse and Neurotransmitters	2			4	
Sensory Receptors and pathways	1			4	
Peripheral Nervous System Cutaneous Senses	2			4	
Physiology of Pain	2			4	
Motor Functions of Spinal Cord	2			4	
Reflexes				1	4
Electroencephalography Cortical and Brainstem Control of Motor Function			2	1	4
Functions of Cerebellum and Basal Ganglia in motor control			2		4
States of Brain Activity- Sleep and Brain Waves			2		4
Cerebral Cortex, Intellectual Functions of the Brain			1		4
Learning and Memory			1		4
Physiology of Vision Visual Examination			4	1	4
Physiology of Hearing			2	-	4
Chemical Senses: Taste and Smell			2		4
Limbic System and the Hypothalamus			2		4
Autonomic Nervous System Corebrospinal Fluid and Brain Matabalism			2		4
Cerebrospinal Fluid and Brain Metabolism Hearing test			2	1	4
Galvanized Skin Response				1	4
Body Fluids and Functions of Kidneys			1		5
Micturition	·		1		5
Urine Formation and Renal Blood Flow			2		5
Urine Formation: Tubular Processing Fluid and Electrolyte Balance			2		5
Regulation of Acid-Base Balance			2		5
Introduction to Endocrinology			1		5
Pituitary Gland and Hypothalamic Control			1		5

Posterior Pituitary Hormones	1		5
Thyroid Metabolic Hormones	1		5
Adrenocortical Hormones	2		5
Regulation of Calcium & Phosphate Metabolism and Bone Formation	4		5
Insulin, Diabetes Mellitus	2		5
Physiology of Growth Hormones	1		5
Pineal Gland & Melatonin	1		5
Male Reproductive Physiology	2		5
Female Reproductive Physiology	2		5
Pregnancy and Lactation	2		5
Fetal and Neonatal Physiology	1		5
Endocrine Distruptors	1		5
Dissection & Examination of Endocrine System Laboratory		2	5
Glomerular Filtration		1	5
Metabolic Rate		1	5

Histoloji ve Embriyoloji Deparment

LECTURE	Saat	Saat	
	Teorik	Pratik	1
Histology of Lymph Organs; General Aspect, Thymus and Lymph Node	1		1
Histology of Lymph Organs; Spleen and MALT (Tonsills)	1		1
LAB: Histology of LRS (Thymus, Lymph Node, Spleen, Tonsils)	1		1
Histology of Circulatory Systems; Gn Spec., Arteries	1		1
Histology of Circulatory Systems; Capillaries, Veins & Heart	1		1
Development of Circulatory Systems; Endocardial Tube Formation & Looping	1		1
Development of Circulatory Systems; Septation	1		2
Congenital Heart Anomalies	1		2
Development of Circulatory Systems; Arteries and Anomalies	1		2
Development of Circulatory Systems; Veins and Anomalies	1		2
Development of Head; Splanchocranium, Neurocranium	1		2
Development of Neck; Pharyngeal Arches and Anomalies	1		2
LAB: Histology of CVS (Aort, Heart, Vena Cava, Muscular arteries)	1	4	2
Histology of The Upper Respiratory Tract	1		2
Histology of The Upper Respiratory Tract	1		2
Histology of The Respiratory Systems; Conducting Part	1		2
Histology of The Respiratory Systems; Respiratory Part	1		2
Development of The Respiratory Systems & Anomalies	1		2
Development of The Respiratory Systems & Anomalies	1		2
LAB: Histology of CVS & RS (Aort, Heart, Trachea, Lung)	4	4	2
Histology of Upper Gastrointestinal Tract; Oral Cavity	1		3
Histology of Alimentary Canal; Tongue, Esophagus	1		3
Histology of Alimentary Canal; Stomach	0		3
LAB: Histology of GIS I (Tongue, Lip, Esophaus, Stomach)	4	4	3
Histology of Alimentary Canal; Small Intestine	1		3
Histology of Alimentary Canal; Large Intestine & Appendix	1		3
Gland Associated with the Digestive System; Salivary Glands	1		3
Gland Associated with the Digestive System; Liver	1		3
Gland Associated with the Digestive System; Gall Bladder	1		3
Gland Associated with the Digestive System; Pancreas & APUDs	1		3
Development of Gastrointestinal Tract; Alimentary Canal & Glands	1		3
Congenital Anomalies of Gastrointestinal Tract	1		3
LAB: Histology of GIS II (Jejunum, Colon, Salivary GI, Liver)	0	4	3
Histology of Central Nervous System; PNS, Meninges and Spinal Chord	1		4
Histology of Central Nervous System; Brain, Cerebellum	1		4
Development of Central Nervous System; Early Stages	1		4
Development of Central Nervous System; Late Stages	1		4
Congenital Anomalies of Nervous System	1		4
Histology of Sensory Organs; Eye; Fibrous and Vascular Coat	1		4
Histology of Sensory Organs; Eye; Nervous Coat and Appendix	1		4
Histology of Sensory Organs; Ear	1		4
Development of Sensory Organs; Eye	1		4
Development of Sensory Organs; Ear	1		4
Histology of Skin and Appendage; Epidermis, Dermis, Appendage	1		4
Development of Skin and Appendage	1		4
LAB: Histology of CNS and Skin	0	4	4
Histology of Urinary System; Kidney Nephron	1		5
Histology of Urinary System; Excreatory Passage	1		5
Histology of Endocrine System; General Aspect, Hypothalamus, Epiphysis	1		5
Histology of Endocrine System; Hypophysis	1		5
Histology of Endocrine System; Thyroid and Parathyroid and Suprarenal Glands	1		5
LAB: Histology of ES & US (Kidney, Hypophysis, Thyroids, Pancreas)	0	4	5
Histology of The Male Genital System; Testis	1		5
Histology of The Male Genital System; Excreatory Parts	1		5
Histology of The Female Genital System; Ovaries	1		5
Histology of The Female Genital System; Conducting Part	1		5
Development of Urinary System and Anomalies	1		5
Development of Genital System; General Aspect	1		5
Development of Male Genital System and Anomalies	1		5
Development of Female Genital System and Anomalies	1		5
LAB: Histology of Genital Sys (Testis, vas Defferentes, Ovary, Uterus)	0	4	5
Prenatal Diagnosis	1	1	5

Lastura	Hour	Committee	
Lecture	Theoretical	Practical	
Leucocyte Circulation and Migration into Tissue Immunology of Heart and Vessels	3	-	1
Infection and Immunity Pulmonary Innate Immune Response Pulmonary Adaptive Immune Response	7	-	II
Mucosal Immunity	2	-	III
Neuroimmunology	2	-	IV
Hormones and Immunity	1	-	V

Microbiology Department

	Hour			
Lecture	Theoretic al	Practical	Committee	
Introduction to Medical Microbiology	1		1	
Sterilization and Disinfection	1		1	
Introduction to Mycology	2		1	
Systemic Mycoses	1		1	
Superficial/Subcutaneous Mycosis	1		1	
Diagnostic Methods in Mycology	1		1	
Opportunistic Mycoses	2		1	
Principles and Procedures of Laboratory Safety/Mycology		1	1	
Introduction to Bacteriology	1		2	
Bacterial Genetics	1		2	
Bacterial Pathogenesis	1		2	
Microbiome	1		2	
Gram Positive Cocci	3		2	
Gram Negative Aerob Bacilli	2		2	
Gram Negative Cocci	2		2	
Enterobacteriaceae	2		2	
Anaerobs	2		2	
Mycoplasma-Chlamydia-Rickettsia	2		2	
Spirochetes	1		2	
Cultivation and identification of bacteria	2		2	
Non-fermenters	1		2	
Gram Negative Small Non-enteric Bacilli	2		2	
Gram Negative Curved Baciili	1		2	
Mycobacteria-Actimomycetes- Nocardia	2		2	
Bacteriology		1	2	
Introduction to Medical Parasitology	1		3	
Urogenital and gastrointestinal Protozoa	1		3	
Blood and tissue Protozoa	2		3	
Cestodes	1		3	
Trematodes	1		3	
Nematodes	2		3	
Opportunistic parasites	1		3	
Medical entomology	1		3	
Parasitology	i i	1	3	
Introduction to Viruses	1		5	
Viral Pathogenesis/ Oncogenesis	1		5	
DNA Viruses	5		5	
RNA Viruses	4		5	
Diagnostic Methods in Virology	1		5	
Specific Viruses	2		5	
Viral Oncogenesis	1		5	
Prions	1		5	
Vaccines	1		5	
Immunoassays in Diagnostic Microbiology		1	5	
Molecular Methods in Diagnostic Microbiology		1	Ť	
		1	1	

Patology Deparment

Lecture	Hour	Committee	
Lecture	Theoretical	Practical	Committee
Introduction to Pathology	1		1
Adaptations	2		1
Ischemia and Infarction	2		1
Hyperemia & Congestion	2		1
Cellular Injury and Necrosis	2		2
Hemodynamics	2		2
Hemorrhage and Thrombosis	2		2
Injury by Endogenous Substances	1		2
Injury by Toxic Substances and Pneumoconiosis	2		2
Inflammation	1		4
Wound Healing	1		4

	_				
Acute inflammation		2			4
Chronic Inflammation		2			4
Introduction to Neoplasia and Biologic Behaviors of Neoplasm		2			5
Histogenesis and Nomenclature		2			5
Oncogenesis, Incidence and Distribution of Cancer		2			5
Tissue Damage by Eating Disorders and Diabetes Mellitus (Bu ders eki formunda Autopsy olarak önerilmiştir)	indeki değişiklik	1			5
ledical Biology Department					
ledical Biology Department Lecture		our heoretical	Practi	ical (Committee
		heoretical	Practi	ical	Committee
Lecture	Т	heoretical	Practi	ical	
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System	T 4	heoretical	Practi	ical 3	3
Lecture Interrelationship of Biology of Major Organs Nutrigenomics	1 4 2	heoretical	Practi	ical 3	3
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System	1 4 2 4	heoretical	Practi	ical 3	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	1 4 2 4 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	1 4 2 4 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	4 2 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	4 2 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	4 2 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	4 2 4 4	heoretical	Practi	3 2 2	3 3 4 5
Lecture Interrelationship of Biology of Major Organs Nutrigenomics Biology of Nervous System Biology and Sexual Differentiation and Development	4 2 4 4	heoretical	Practi	3 2 2	3 3 4 5

Course Learning Outcomes	Program Outcomes	Teaching Methods	Assessment Methods
1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects.	1	1, 6	А
2.0. explain the operational principles, interactions and relation of the systems in the body.	1	1, 6	А
 3.0. of clinical conditions; 3.1. <i>explain</i> mechanisms of damages formed at molecular, cell, tissue, organ, system and multi-system level, 3.2. <i>describe</i> the structural changes caused, 3.3. <i>list</i> developmental progress in time. 	1	1, 6	А
 4.0. Among factors that pose risk -to individual and community health; 4.1. <i>list</i> biological agents, 4.2. <i>explain</i> their mechanisms of action and outcomes. 	1	1, 6	А
5.0. explain basic principles of evidence-based medicine applications.	1	1, 6	А
6.0. describe writing, reporting, presentation and submission to publication phases of a research project.	1	1, 6	А

CONTACT HOURS (CH)

- Theoretical-Class/Auditorium/Conference Hall/Multimedia
- 1.1. Lecture/Tutorial
- 1.2. Case report
- 1.3. Case presentation
- 1.4. Research seminar
- 1.5. Seminar
- 1.6. Student seminar/Journal club
- 1.7. Invited speaker
- 1.8. Hospital conference
- 1.9. Online/Distance or e-learning (paper based or ICT based)
- 1.10.Other:
- Theoretical-Group Activity/Interactive
- 2.1. Case discussion
- 2.2. Discussion class
- 2.3. Small group study session/Problem solving session/Brainstorm session
- 2.4. Exercise class
- 2.5. Oral presentation and criticism
- 2.6. Panel
- 2.7. Workshop
- 2.8. Online/Distance or e-learning (paper based or ICT based)
- 2.9. Other:
- Practice Based-Laboratory/Class
- 3.1. Demonstration class
- 3.2. Laboratory teaching
- 3.3. Clinical skills laboratory
- 3.4. Small group study session/Problem solving session
- 3.5. Exercise class
- 3.6. Workshop (practical class)
- 3.7. Other:

Teaching/Learning

Methods:

- Clerkship (Clinical practice and training)
- 4.1. Field study/Fieldwork
- 4.2. Outpatient clinic
- 4.3. Patient bedside
- 4.4. Imaging round
- 4.5. Labaratamana
- 4.5. Laboratory round
- 4.6. Work based practice
- 4.7. Grand round
- 4.8. Operating room
- 4.9. Invasive Intervention room
- 4.10.Night shift at ward
- 4.11. Night shift at intensive care unit
- 4.12. Night shift at emergency care unit
- 4.13.Other:
- 5. Work placement/Internship (Clinical performance under supervision)
- 5.1. Field study/Fieldwork
- 5.2. Outpatient clinic
- 5.3. Patient bedside
- 5.4. Imaging round
- 5.5. Laboratory round
- 5.6. Work based practice
- 5.7. Grand round
- 5.8. Operating room
- 5.9. Invasive intervention room
- 5.10. Night shift at ward
- 5.11. Night shift at intensive care unit
- 5.12. Night shift at emergency care unit
- 5.13.Other:

INDEPENDENT STUDY HOURS (ISH)

- KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation)
- 6.1. Theoretical/Written/Oral exam/s
- 6.2. Presentation
- 6.3. Seminar
- 6.4. Discussion
- 6.5. Session
- 6.6. Research paper writing
- 6.7. Project writing
- 6.8. Report writing
- 6.9. Dissertation writing
- 6.10.Homework
- 6.11.Investigation/Survey study
- 6.12.Other:

SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization) 7.1. Oral/practical exam/s 7.2. Presentation 7.3. Seminar 7.4. Discussion 7.5. Session 7.6. Exercise 7.7. Workshop 7.8. Imaging round 7.9. Laboratory round 7.10. Grand round 7.11.Other: 8. ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization) 8.1. Questionnaire (self-assessment) 8.2. Paper case 8.3. Other: COMPETENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing) 9.1. Portfolio preparation 9.2. Clinical performance at outpatient wards 9.3. Clinical performance at inpatient wards 9.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 9.5. Other: (e.g. mini-clinical exam, etc.) 10. PROFICIENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing) 10.1. Portfolio preparation 10.2. Clinical performance at outpatient wards 10.3. Clinical performance at inpatient wards 10.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 10.5.Other: (e.g. mini-clinical exam, etc.) A. Knowledge Assessment a. Written Exam (MCQ+EMQ+KFQ) (F, S) b. Objectively Structured Oral Examination (S) c. Oral Examination (F) d. Other: B. Skills Assessment a. Practical Examination (F) b. Objectively Structured Practical Examination (S) c. Mini Clinical Examination (S) d. Other: C. Attitude Assessment a. Mini Clinical Examination (S) b. Questionnaire (self-assessment) (F) c. Paper case (S) d. Observation of behaviour (360°) (F, S) e. Other: Assessment Methods: D. Competency Assessment a. Mini Clinical Examination (S) b. Clerkship/Internship Guide/Checklist Assessment (F, S) c. Professional Portfolio Assessment (F) d. Presentation Performance Assessment (F) e. Seminar Performance Assessment (F) Project Writing Assessment (S) g. Other: E. Proficiency Assessment a. Mini Clinical Examination (S) b. Clerkship/Internship Guide/Checklist Assessment (F, S) c. Professional Portfolio Assessment (F)

d. Presentation Performance Assessment (F) e. Seminar Performance Assessment (F)

Other:

*F: Formative, S: Summative

COURSE CONTENT

Week	Topics	Study Materials
1-5	Committee I: Cardiovascular System	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
6	Committee Exam	
7-11	Committee II: Respiratory System	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
12	Committee Exam	
13-18	Committee III: Gastrointestinal System	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
19-21	Committee Exam-Mid Term Break	,
22-28	Committee IV : Nervous System	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
29	Committee Exam	
30-37	Committee V: Endocrine and Urogenital Systems	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
38	Committee Exam	Table 100, Table 100,
41	Makeup Exam	
43	Final Exam	
46	Incomplete Exam	

	RECOMMENDED SOURCES
Textbooks	 Guyton and Hall - Textbook of Medical Physiology Glantz, Stanton "A Primer of Biostatistics" McGrow-Hill , NewYork, 2002 Armitage, P., " Statistical Methods in Medical Research" Blackwell Science, Oxford,2002 B. G. Katzung: Basic and Clinical Pharmacology, 12th ed. McGraw-Hill Companies, New York, 2012. Goodman&Gilman's The Pharmacologic Basis of Therapeutics, 12th ed.McGraw Hill Medical, 2011
Additional Resources	Each instructor will provide her/his notes to the students

MATERIAL SHARING				
Documents	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos			
Assignments				
Exams	After the exam; exam questions, question discussions, individual performance analysis reports			

ASSESSMENTS

Assessments table will be made with consideration of each learning objective for each committee and will be announced and explained in introductory lectures at the beginning of each committee.

EXAMINATION MATRIX

MED 203 Basic Medical Sciences II

Committee Exams : WE + OSPE Written Exam:

Number of Questions 100

Question Type : Multiple Choice Questions*

Committee Score (CS)= 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of

PBL-P

Final Exam : WE

Number of Questions 200

Question Type : Multiple Choice Questions*

The mean of committee examinations and the final examination will form 60% and 40% of the end of the year grade, respectively.

Incomplete Exam : WE

Number of Questions : 100 - 200

Question Type : Multiple Choice Questions*

MCQ: Multiple Choice Questions

EMQ: Extended Matching Questions OSPE: Objective Structured Practical Exam WE: Written Examination (WE)

SRPC: Scientific Research and Publication Course

*Percentage that will be reflected in total points of written exam does not comply with the exact number of questions.

Term Score (Pass of Fail) Calculations***

Term Score=((60% of CE Average) + (40% of Final Exam Score or Incomplete Exam Score))%97+(SRPC 3%)

Pass; TS ≥ 60

Fail; FES < 50 (barrier point), ICES < 50 (barrier point), or/and TS < 60

The student is exempted from FE, if the CMS is ≥ 80 and all CSs are ≥ 60

The FE and ICE <u>barrier point is not applied</u> to the students whose all CSs are ≥ 60

The distribution of questions in the question distribution tables in all exams could be changed by the coordinators.

COURSE CATEGORY

Professional (Knowledge and Skills: physiopathological processes, pathological processes; introduction to clinical practice-advanced clinical skills)

COURSE'S CONTRIBUTION TO PROGRAM					
Program Learning Outcomes (APK)	Contribution				
Program Learning Outcomes (APK)	1	2	3	4	5
1.1.		X			
1.5.			X		
2.1.		X			
2.2.			X		
2.3.		X			
2.4.		X			
2.5		X			

ECTS CREDITS MED 201 Basic Medical Sciences II				
ACTIVITIES	#	Time (hour)	Workload	(hour)
Lectures	599	1	599	
Laboratory Practices	129	1	129	
Scientific Project Writing	1	14	14	
Independent Study for Mid-term Exam	429	1	412	
Mid-term Exam (MCQ+OSPE)	9	2	18	
Independent Study for Final Exam	429	1	412	
Final Exam (MCQ)	1	4	4	
Scientific Research and Publications Course Exam	1	1	2	
Total Workload per Course			1590	
ECTS Credits per Course			53	