

№		Study Plan																					
		Module/Course	Credit	Hours							Semester												
				Overall	Contact Hours	Lecture	Laboratory Work	Practical	Seminar	Rating Tests	Independent work	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
						5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20	21
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
1	Communicative Aspects of the Georgian Language		8	200	90	30		58		2	110	8											
2	Module – Medical Biology	Cytology	7	175	70	4	8		2	105	7												
		Molecular Biology				8	4	12															
		General Histology				6	12																
		Embryology				6	4	4															
3	Module – Morphology and physiology of cardio-respiratory system	Respiratory system morphology	9	225	90	5		12	2	135	9												
		Clinical anatomy of the chest				5		8															
		Breathing physiology				4	4	8															
		Morphology of heart and coronary vessels				6		12															
		Electrophysiology of the heart				4	2	6															
		Blood pressure formation				4	2	6															
4	Medical Chemistry	Nonorganic	6	150	60	6	14		2	90	6												
		Organic				6	14																
		Common Biochemistry				6	12																
5	Module Locomotor System - Morphology and Physiology	Anatomy of skeletal system	6	150	90	4	6	6	2	60	6												
		Histology of skeletal system				8	7	8															
		Joints				4		8															
		The muscular				4	4	10															

		system anatomy																		
		Physiology of cross-striated muscle contraction				2	4	4												
		Bone Radiology				3		6												
6	Module Energy	Learning of biochemical pathways on energy metabolism and highenergy molecules	5	125	50	3		6		2	75	5								
		thermodynamics				2		6												
		biochemical structure and importance of enzymes				3		7												
		Anatomy of Liver, Pancreas and thyroid gland				3		6												
		Histology of liver, pancreas and thyroid gland				4	8													
7	Module Homeostasis	Urinary system anatomy	5	125	50	3		6		2	75	5								
		Nephron as the structural and functional unit of kidney				3		6												
		Physiology of liquid regulation in human organism				3		6												
		Homeostasis and acid –base balance				3		6												
		Pharmacokinetics				3		9												
8	Inflammation and immunity	Immune system	7	175	70	8	6	6		2	105	7								
		Complement system				2		4												

		Autoimmunity				2	2	3												
		Acute inflammation				2		8												
		Chronic inflammation				3		6												
		Reparation				2		4												
		Immunodeficiency				4	2	4												
9	Module – Nutrition	Anatomy of the digestive (gastrointestinal) system)	6	150	60	4	4	8	2	90										
		Hystology of the gastrointestinal organs				4	4	6												
		Physiology of the digestive (gastrointestinal) system				4	6	6												
		The digestion and absorption				4		6												
		The drug absorption in the alimentary tract and the main medicaments used in the gastroenterology				2		8												
		Anatomy of the digestive (gastrointestinal) system)				4		8												
10	Module – High Neuroregulation	Anatomy and Physiology of meningeal membranes	6	150	60	4		8	2	90										
		Limbic system and cerebellum				2		6												
		Bloody supply of CNS				4		8												
		Electrical activity of brain (introduction), Sleep Physiology				2		6												

		Autonomic Nervous system and main neurological examinations				4		6												
	Module – Medical Genetics	Molecular Genetics	5	125	75	9		18		2	50	5								
Genetics and Changeability		9					18													
Genomic Technologies		7				12														
11	Module Growth and Development	Organogenesis	7	175	105	6		12		2	70	7								
		Embryo growth and development genetic, physiological, biochemical endocrinal factors and mechanisms.				8		16												
		Neonatology				6		12												
		Major genetic, physiological, biochemical endocrinal aspects				4		10												
		Gonadotrophic hormones and drugs																		
		s The health-related problems during the neonatal (newborn), childhood and puberty ages. The main factors and reasons of morbidity and mortality				8		21												
12	damage caused by biological agents	Bacteria, Viruses, Fungi, Parasites structure				4	2	6												
		Pathogeneses,				4		8												

		symptoms and disease of damage caused by microbiological agents	7	175	70				2	105			7							
		Identification of bacteria <i>spread</i> around the <i>human body</i>				2	2	6												
		Normal and Pathogenic Micro flora				4		8												
		Selective and diagnostic cultivation				2	2	4												
		Basic antimicrobial agents				2		4												
		Biosafety				2	2	4												
13	Medical First Aid		5	125	75	15		58	2	50			5							
14	Biostatistics		5	125	50	15		33	2	75			5							
15	Module- Reproductol ogy	Morphology of human reproductive system				4		8	2											
		pathology of human reproductive system	5	125	50	4		12		75			5							
		Hypothalamus - hypophysis gonadial line				4		16	0											
Module Neuro - Biology	Synapsis, synaptic links, neural impulse transmission				3	2	6													
	General Pharmacology	4	100	40	6		12		2	60			4							
	Basic neuro-transmitters and their role				3		6													
17	Module - Pathology	The cellular damage and its results	6	150	90	7		14	2	60			6							
		The adaptation mechanisms of				3	2	6												

		cell, tissue, organ and system of organs																		
		The physical agents of diseases development				6		10												
		The chemical agents of physical development				6	2	12												
		Oxygen and other gases used for therapeutical reasons				2	3	6												
		The toxic effect of ethyl, methyl alcohols and drugs				3		6												
18	Medical Radiology		5	125	75	30		43		2	50				5					
		Somatic Stimulation – Perception and Transmission				3		6												
		Functional anatomy and structure of sensory organs				3		9												
19	Perception and Transmission	Functional Anatomy of vestibular system and cranial nerves	5	125	50	3		6		2	75				5					
		Dysfunction of sense, perception and transmission				6		12												
		Blood structure and function				4		8												
		Hematopoiesis and stem cells				6		10												
20	Module – Blood	Iron metabolism	5	125	75	3		6		2	50				5					
		Anemia				4		8												
		Bleeding, hemostasis, thrombosis				4		8												

		Liquid regulation in the organism, principles of transfusion				4		8														
21	Module – Trauma	Blood structure and function	7	175	70	2		6		2	105											
		Hematopoiesis and stem cells				2		6														
		Iron metabolism				2		10														
		Anemia				2		6														
		Bleeding, hemostasis, thrombosis				4		8														
		Liquid regulation in the organism, principles of transfusion				2		6														
		Blood structure and function				4		8														
22	General Surgery		4	100	60	15		43		2	40											
23	Module Gerontology- Geriatrics	Concept of ageing, aging theories, cellular senescence	4	100	60	4		8		2	40											
		in immune system, skin, eye, cardiovascular system, urogenital system,				4		8														
		hearing and balance, metabolism, gastrointestinal system, skeletal muscle physiology.				3		6														
		Changes occurring during the aging process				4		10														
		Behavior Changes				3		8														
		Menopause, osteoporosis, clinical pharmacology of aging																				

		Ethic in geriatric																						
24	Obstetrics	Anatomy and physiology of female urinary and reproductive systems	5	125	50	3	6	2	75															
		Pathology of female reproductive system				3	9																	5
		Ethics in obstetrics				3	6																	
		Anatomic and physiologic changes caused by pregnancy				6	12																	
25	Module Oncology	Basic terminology	5	125	75	4	8	2	50															
		Differentiation of malignization, metastasis				3	8																	
		Carcinogenic differentiation, and path-physiology				4	10																	
		Predictor cancer factor (personal and surrounding)				4	8																	
		Cancer immunology and cancer hearths				4	8																	
		Narcological analgesics and anti-cancer medicines				4	8																	
26	Module Cardio-Respiration	Blood circulation, large and small circulation, mechanisms of diseases	7	175	105	4	8	2	70															
		Cardio-vascular				6	12																	

		system pathology																		
		Cardio-pulmonary examination of patients				6		12												
		Electro-cardiographs				5		10												
		Pathologies of respiratory systems				2		6												
		Patients with respiratory system diseases and examination				6		12												
		Blood circulation, large and small circulation, mechanisms of diseases				4		10												
27	Module - Gastroenterology	Hepatic and the bile ducts Pathology: acute viral and chronic Hepatitis pathogenesis	5	125	75	6		12		2	50									
		The patient evaluation during the hepatic and biliary pathologies				4		8												
		Abdominal surgery				8		14												
		The endoscopic examination in gastroenterology				3		6												
		The gastroenteritis and GI parasites				4		8												
28	Module Infection	Infectious Diseases Pathology	8	200	120	4		8		2	80									
		Pathogenesis of pathogenesis of				4		8												

		heating due to infectious diseases																		
		Skin and soft tissue infections				4		8												
		Zoonotic infections tetanus and Rabies				4		6												
		Infections Due to Blood, skin and Tissue Parasites				4		8												
		Pathogenesis of damage to various systems due to infectious diseases				6		12												
		Pathogenesis of TBC and epidemiology				4		8												
		Anti-germ therapy				6		12												
		Major epidemiological definitions of the infectious diseases				4		8												
29	Module Pediatrics	Child's growth and development	10	250	150	6		12	2	100										
		Propedeutics				6		12												
		Murmur and cyanosis – pallor				6		12												
		Convulsion and its complications				6		10												
		Newborn and dismorphology				6		12												
		Feeding, diarrhea, vomiting and abdominal pain				6		12												
		Arthralgia, and hematuria - fever and cough				6		15												

		Children's Diseases Epidemiology				6	15													
30	Pathology of Neurological Perception and Transmission	Somatic Innervation and transmission of perception	5	125	50	3	6	2	75											
		Injury of sense organs of cranial-vestibular system				4	9													
		General anesthetics and their work mechanism				4	10													
		Local anesthetics and their work mechanism				4	8													
31	Module - Cardio Pulmonary Studies	Chest Pane	10	250	150	6	12													
		Interventional cardiology				6	12													
		Dyspnea cyanosis				5	8													
		Thoracic surgery				8	16													
		radiological diagnostics of Cardio respiratory diseases				6	12													
		Cough, phlegm, hemoptysis				7	14													
		Parenchymal disease of lungs				6	12													
Angiology, Angio surgery	6	12																		
32	Otorhinolaryngology		5	125	50	10	38	2	75											
33	Gastrointestinal, hemopoetic and Metabolic disorders	Propaedeutics,	10	250	150	6	12	2	100											
		Radiological diagnosis				6	12													
		Echimosis and hemorrhage				4	6													
		Acute abdominal pain				8	24													

		Chronic abdominal Pain				4		8												
		Abdominal mass , breast mass				4		8												
		Organomegaly				4		8												
		Icterus				4		8												
		Diare, constipation				4		6												
		Haematemesis, melena haematochezia				4		8												
34		Medical Ethics and Deontology	3	75	30	8		20		2	45							3		
35		Endocrinology	9	225	135	36		97		2	90							9		
36		Neurological diseases	6	150	60	12		46		2	90							6		
37	Module - Pathology of the musculoskeletal system	Pathology of the musculoskeletal system	7	175	105	6		12		2	70							7		
		The posture and moving abilities' disorders				6		12												
		Osteology				7		21												
		The joints pain and edema				6		12												
		Rheumatic diseases				7		14												
38		Elective Course	5	125	50	12		36		2	75						5			
39		Forensic Medicine	5	125	50	12		36		2	75							5		
40	Module urology, andrology, sexual disorder	Pathology of the urinary system	6	150	60	6		12		2	90							6		
		Radial diagnostics used for Urinary diseases				4		8												
		The patient evaluation during the urinary system disorders				4		6												
		Dysuria				2		4												
		Sexual disorders and infertility				4		8												
41	Module –	Psychiatric	4	100	40	2		4		2	60							4		

	mental disorders	nosology																																	
		The basics of psychiatric interviewing																						2	6										
		The Main Psychiatric disorders																						2	6										
		Psychiatric diseases – Diagnosis. Etiology. Principles of treatment																						4	6										
		Central nervous system pharmacology																						2	4										
42	Internal diseases		10	250	100	22		76	2	150										10															
43	Perioperative Medicine		5	125	50	12		36	2	75										5															
44	Dermato-venerology		6	150	60	10		48	2	90										6															
45	Neuro-Science		6	150	90	30		58	2	60										6															
46	Family Medicine		6	150	60	12		46	2	90										6															
47	Clinical Allergology		6	150	60	12		46	2	90										6															
48	Public Health and Epidemiology		6	150	75	15		58	2	75										6															
49	Methods of scientific research in Clinical Medicine		5	125	55	16		37	2	70													5												
50	Surgical diseases		10	250	150	28		120	2	100											10														
51	Critical Care and Emergency Toxicology		8	200	120	20		98	2	80											8														
52	Pediatric	Practice	7	175	105			103	2	70											7														
53	Obstetrics and Gynecology	Practice	6	150	90			88	2	60													6												
54	Internal Medicine	Practice	8	200	120			118	2	80													8												
55	Surgery	Practice	8	200	120			118	2	80													8												
56	Emergency	Practice	8	200	120			118	2	80													8												
		Total	9000	4525	1123	158	3093	37	114	4475	30	30	30	30	30	30	30	30	30	30	30	30	30	30											
	Elective Courses (5)		credit	Hour	Contact hour	Lecture	laboratory	Practical	seminar	rating Independent work																									

	Credits)																					
1	History of Georgia	5	125	50	12	36		2	75									5				
2	Informational Technologies	5	125	45		43		2	80									5				
3	Ophthalmology	5	125	50	12	36		2	75									5				