

CURRICULUM
MEDICAL LABORANTS
APPLICABLE FROM THE SUMMER 2018/2019 YEAR

FIRST YEAR - FIRST SEMESTER			
SUBJECT	Credits	Hours	Total
Anatomy	3	2+1+1	90
Physiology	4	2+1+1	120
Chemistry	6	3+2+2	240
Communication skills	3	2+1+1	90
Cell Biology	4	2+2+1	120
Foreign Language 1 - English	4	0+0+4	120
Foreign Language 1 - Italian			
Foreign Language 1 - German			
Foreign Language 1 - French			
Foreign Language 1 - Spanish			
Foreign Language 1 - Russian			
Sport and Recreation	0	0+0+2	0
Elective course # 1	2	2+0+1	60
Elective course # 2	2	2+0+1	60
Elective course # 3	2	2+0+1	60
FIRST YEAR - SECOND SEMESTER			
SUBJECT	Credits	Hours	Total
General biochemistry	6	3+2+1	180
Fundamentals of Human Genetics	6	3+2+1	180
Histology with embryology	6	3+2+1	180
University elective course # 1	4	0+0+4	60
University elective course # 2	4	0+0+4	60
Elective course # 4	2	2+0+1	60
Elective course # 5	2	2+0+1	60
SECOND YEAR - THIRD SEMESTER			
SUBJECT	Credits	Hours	Total
Pathophysiology with pathology	6	3+3+2	180
Pharmacology	6	3+2+1	180
Basics of Internal Medicine	6	3+2+1	180
Analytical Chemistry	4	2+2+1	120
Cellular biochemistry	4	2+2+1	120
Elective course # 6	2	2+0+1	60
Elective course # 7	2	0+0+4	60

SECOND YEAR - FIFTH SEMESTER			
SUBJECT	Credits	Hours	Total
Good laboratory practice	4	2+2+1	120
Immunology	4	2+2+1	120
Basics of transfusiology	4	2+2+1	120
Microbiology with parasitology	6	3+2+1	180
Laboratory techniques and instrumental analysis	4	2+2+1	120
University elective course # 3	4	0+0+4	120
Elective course # 8	2	2+0+1	60
Elective course # 9	2	2+0+1	60
THIRD YEAR - FIFTH SEMESTER			
SUBJECT	Credits	Hours	Total
Clinical Biochemistry 1	4	2+2+1	120
Basics of infectious diseases	6	3+2+1	180
Clinical - toxicological analysis	6	3+2+1	180
Bromatology	6	3+2+1	180
Laboratory safety	4	2+2+1	120
Elective course # 10	2	2+0+1	60
Elective course # 11	2	2+0+1	60
THIRD YEAR - SIXTH SEMESTER			
SUBJECT	Кредити	Часови	Вкупно
Clinical Microbiology	4	2+2+1	120
Clinical Biochemistry 2	6	3+2+1	180
Biostatistics	4	2+2+1	120
Clinical Transfusiology	2	2+1+1	120
University elective course # 4	4	0+0+4	120
Elective course # 12	2	2+0+1	60
Elective course # 13	2	2+0+1	60
Final exam	6	0+0+6	180

LIST OF ELECTIVE SUBJECTS

FIRST YEAR - FIRST SEMESTER (student chooses 3 courses # 1 # 2 #3)			
SUBJECT	Credits	Hours	Total
Medical Psychology	2	2+0+1	60
Biophysics	2	2+0+1	60
Mathematics	2	2+0+1	60
Public Health	2	2+0+1	60
Introduction to laboratory work	2	2+0+1	60

FIRST YEAR - SECOND SEMESTER (student chooses 2 subjects # 4 # 5)			
SUBJECT	Credits	Hours	Total
Nourishing of patients	2	2+0+1	60
Ecology with hygiene	2	2+0+1	60
Informatics	2	2+0+1	60
Medical Cytology	2	2+0+1	60

SECOND YEAR - THIRD SEMESTER (student chooses 2 courses # 6 # 7)			
SUBJECT	Credits	Hours	Total
Medical Ethics	2	2+0+1	60
Hematology	2	2+0+1	60
Epidemiology	2	2+0+1	60

SECOND YEAR - FOURTH SEMESTER (student chooses 2 courses # 8 # 9)			
SUBJECT	Credits	Hours	Total
Applied Immunology	2	2+0+1	60
Immunological laboratory techniques	2	2+0+1	60
Health legislation and laboratory management	2	2+0+1	60
Fundamentals of Medical Biotechnology	2	2+0+1	60

THIRD YEAR - FIFTH SEMESTER - (student chooses 2 courses # 10 # 11)			
SUBJECT	Credits	Hours	Total
Virology	4	2+0+1	60
Methodology of scientific research work in health	4	2+0+1	60
Laboratory analysis with radioisotopes	4	2+0+1	60
Toxicology of foods and products of natural origin	4	2+0+1	60
Tissue and cell cultures	4	2+0+1	60

* Students go to laboratory practice for one month during the summer

THIRD YEAR - SIXTH SEMESTER - (student chooses 2 courses # 12 # 13)			
SUBJECT	Credits	Hours	Total
Laboratory analysis of metabolic disorders	4	2+0+1	60
Evaluation of instruments, procedures and reagents	4	2+0+1	60
Nutrition and Dietetics	4	2+0+1	60
Intra-hospital infections	4	2+0+1	60
Sample preparation techniques for analysis	4	2+0+1	60
Urgent laboratory diagnostics	4	2+0+1	60