

## CURRICULUM

The Integrated academic studies in Medicine leading to the Medical doctor degree last 6 years and include 12 semesters - 6.300 classes: 5.475 classes of active training (that is done in the form of lectures - 2.595 classes, practical training - 2.595 classes, other forms of active training – 15 classes and scientific work – 300 classes), and 825 other classes (735 classes of clinical practice and 90 classes for final diploma thesis preparation).

The total student engagement throughout the Integrated academic studies in Medicine (active training, continuous training programs, exams and colloquia preparation, and final written exam preparation) equals 360 ECTS credit points. One ECTS credit stands for approximately 27 working hours. The implementation of the ECTS credit system has been done in a non-modular fashion (the number of credits can be changed, but the total number of credits in one academic year must be 60). The number of credits per course is determined in regard to the established goals a student has to fulfill in order to achieve them as well as the study outcome. Activities relevant for achieving the goals and study outcomes are defined for each course, as well as the time needed, so that the total student workload corresponds with the number of credit points defined for the course. Students get ECTS credits after passing exams.

The aim of this study program is to allow the 1st year students to acquire the basic knowledge in preclinical medical science (Biology and Human Genetics, Biophysics, Medical Chemistry and Anatomy), general comprehensive courses (Medical Statistics and Informatics, Medical Ethics and English Language) and get to know the principles of first aid (First Aid). Apart from comprehensive general courses (Communication Skills and English Language), 2nd year students study basic medical sciences (Neuroanatomy, Histology and Embryology, Physiology, and Biochemistry), as well as skills necessary for mastering curricula of clinical courses (Introduction to Clinical Practice). The curriculum of the 3rd year students includes courses in basic medical sciences (Pathology, Pathophysiology, Microbiology and Immunology, Pharmacology and Toxicology 1 and Psychological Medicine) and clinical courses (Clinical Propedeutics). During the 4th, 5th and 6th years of studies, students gain knowledge and skills in clinical sciences (Radiology, Nuclear Medicine, Infectious Diseases, Internal Medicine, Surgery, Dermatovenerology, Neurology, Psychiatry, Paediatrics, Gynecology and Obstetrics, Physical Medicine and Rehabilitation, Occupational Medicine, Epidemiology, Transfusiology, Ophthalmology, Otorhinolaryngology, Maxillofacial Surgery with Fundamentals of Dental Medicine, Oncology, Emergency Medicine, Family Medicine and Primary Health Care, and Forensic Medicine). Each course lasts one, or two semesters at the most, in agreement with the curriculum.

After the 3rd, 4th and 5th years of study, students are required to participate in practice at teaching hospitals from clinical courses (Internal Medicine, Infectious Diseases, Neurology, Dermatovenerology, Surgery, Pediatrics, Gynecology and Obstetrics, Physical Medicine and Rehabilitation, Emergency Medicine, Oncology, and Paediatrics). During the 6th year they participate also summer practice that takes 300 classes.

Elective courses are offered in the 2nd, 3rd, 4th, 5th and 6th year providing the students an opportunity to confirm their liabilities towards some fields of medicine.

During the 12th semester students have 300 classes of research study and 90 scientific

research classes, after which they are expected to write and defend their final diploma thesis.

The most important teaching methods include: lectures illustrated by slides and video clips, teaching in small groups, demonstrations and individual laboratory and clinical practice skills. All forms of active teaching are based on interactive teaching characterized by discussions on the topic, explanation of personal attitudes supported by theoretical or experience-based arguments, defining dilemmas regarding the topic and their solutions. Work in small groups, being an important method of current teaching process, means attendance of 80 students per lecture, 15 and 7 students at preclinical and clinical practical classes, respectively. Each clinical skill requires a defined level of student competence: the student has only theoretical knowledge about the skill, the student watches the procedure, but does not perform it on his own, the student individually performs the procedure, but not as a routine, the student routinely performs the procedure. A student has to master all the clinical skills to the planned level of competence during the learning process as a condition for the final examination or appropriate colloquium tests. The teacher records the student's mastered clinical skills by signing in an evidence booklet (Guidebook for Students) that each student shall submit when taking the final examination for clinical courses.

## FIRST YEAR

Course		Hours/week				
		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	Theory
1	Anatomy	4	3	4	5	120
2	English Language 1	2		2		60
3	Biophysics	2	1			30
4	Biology with Human Genetics	3	2			45
5	Medical Ethics	2				30
6	First Aid		2			
7	Chemistry in Medicine			3	2	45
8	Medical Statistics and Informatics			2	2	30
		Active teaching				360

	Professional practice
	Teaching hours at 1. study year

## 2<sup>ND</sup> YEAR

Course		Hours/week				Theory
		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	Theory
9	Histology and Embryology	3	3	3	3	90
10	Medical Biochemistry	3	3	3	3	90
11	Physiology	5	4	5	4	150
12	English Language 2	2		2		60
13	Neuroanatomy	1	2			15
14	Communication Skills	2	1			30
15	Introduction to Clinical Practice			1	4	15
16	Elective 1			2	1	30
	Medical Sociology					
	General and Special Medical Cytology					
	Teaching and Learning					
	Classical Languages in Medical Terminology					
	Introduction to Scientific Research Work					
	History of Medicine and Dentistry					

	Variations in Anatomy					
17	Elective 2			2	1	30
	Medical Sociology					
	General and Special Medical Cytology					
	Teaching and Learning					
	Classical Languages in Medical Terminology					
	Introduction to Scientific Research Work					
	History of Medicine and Dentistry					
	Variations in Anatomy					
Total	Active teaching					510
	Professional practice					
	Teaching hours at 2. study year					

### 3<sup>RD</sup> YEAR

Course		Hours/week				
		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	Theory
18	Pathology	5	5	3	3	120
19	Pathophysiology	3	4	3	4	90
20	Microbiology and Immunology	3	2	3	2	90
21	Psychological Medicine	2	1			30
22	Clinical	2	6			30

	Propedeutics					
23	Elective 3	2	1			30
	Clinical Surface Anatomy					
	Introduction to Experimental Neuroscience					
	Microscopic Laboratory Techniques in Medicine					
	Clinical Genetics					
	Approaches to Working with People with Disabilities					
24	Pharmacology and Toxicology 1			5	3	75
25	Elective 4			2	1	30
	Physiology of Sport					
	Clinically Oriented Embriology					
	Healthcare Management					
	Sign Language					
	Dissection Techniques in Anatomy					
Total		Active teaching				495
		Professional practice				
		Teaching hours at 3. study year				

#### 4<sup>TH</sup> YEAR

Course	Hours/week
--------	------------

		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	Theory
26	Pharmacology and Toxicology 2	3	2			45
27	Internal Medicine	6	6	7	6	195
28	Radiology	1	2	2	2	45
29	Infectious Diseases	1	2	2	2	45
30	Neurology	2	4			30
31	Elective 5	2	1			30
	Health Psychology					
	Clinical Biochemistry					
	Safety of Supplements Consumption in Sports					
	Biochemistry and Genetics of Inherited Metabolic Diseases					
	Anthropometry					
32	Elective 6	2	1			30
	Health Psychology					
	Clinical Biochemistry					
	Safety of Supplements Consumption in Sports					
	Biochemistry and Genetics of Inherited Metabolic Diseases					
	Anthropometry					
33	Dermatovenerology			2	2	30
34	Psychiatry			2	4	30
		Active teaching				480

Professional practice

Teaching hours at 4. study year

5<sup>TH</sup> YEAR

Course		Hours/week				Theor
		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	Theor
35	Surgery	2	3	4	6	90
36	Paediatrics	3	3	3	4	90
37	Gynaecology and Obstetrics	2	3	3	4	75
38	Anaesthesia and Perioperative Medicine	2	2			30
39	Hygiene	2	3			30
40	Epidemiology	2	2			30
41	Transfusion Medicine	1	1			15
42	Elective 7	1	2			15
	Rational Pharmacotherapy 1					
	Clinical Immunology					
	Rational Phytotherapy					
	Pharmacoeconomics					
	Experimental Animals and Experimental Design in Medical Research					
	Integrative Medicine					
	Interventional Radiology					
	Diagnostic and Molecular Imaging					
	Emergency Conditions in Internal					

	Medicine					
	Interprofessional Education					
	Basics of Psychotherapy					
	Clinical Sexology					
	Bloodborne Diseases and Professional Prophylaxis					
	Professionally Orientated Education of Health Workers in Pharmaceutical Industry					
43	Maxillofacial Surgery with Fundamentals of Dental Medicine			1	1	15
44	Nuclear Medicine			1	1	15
45	Elective 8			1	2	15
	Rational Pharmacotherapy 2					
	Rational Drug Use in Pregnancy and Lactation					
	Special Epidemiology of Communicable Diseases					
	Special Epidemiology of Non-Communicable Diseases					
	Special Epidemiology of Hospital Acquired Infection (HAI) and Infection Control					
	Tropical Infectious Diseases					
	Intensive Care					
	Laboratory Medicine					
	Professionalism in Healthcare					

Total	Active teaching	420
	Professional practice	
	Teaching hours at 5. study year	

## 6<sup>TH</sup> YEAR

Course		Hours/week				
		Winter semester		Summer semester		
No.	Title	Theory	Practices	Theory	Practices	The
46	Ophthalmology	2	2			30
47	Otorhinolaryngology	2	2			30
48	Clinical Pharmacology	2	2			30
49	Occupational Medicine	2	1			30
50	Medical Rehabilitation	2	1			30
51	Emergency Medicine	1	2			15
52	Oncology	2	1			30
53	Forensic Medicine	2	3			30
54	Geriatrics	1	1			15
55	Social Medicine	2	1			30
56	Family Medicine and Primary Health Care	2	2+1			30
57	Elective 9	1	2			15
	Immunogenetic Testing					
	Immunohaematological Testing					
	Tissue and Organ Transplantation					
	Experimental Surgery					
	Pain Medicine					
	Clinical Toxicology					
	Palliative Medicine					

	Sports Medicine					
	Intensive Care and Therapy in Paediatrics					
	Early Childhood Development					
	Health of School-Age Children and Adolescent					
	Ethics in Paediatrics					
	Health Promotion					
	Personalized Medicine					
	Nutrition of Healthy and Unhealthy Child					
	Balneoclimatology					
58	Elective 10	1	2			15
	Immunogenetic Testing					
	Immunohaematological Testing					
	Tissue and Organ Transplantation					
	Experimental Surgery					
	Pain Medicine					
	Clinical Toxicology					
	Palliative Medicine					
	Sports Medicine					
	Intensive Care and Therapy in Paediatrics					
	Early Childhood Development					
	Health of School-Age Children and Adolescent					
	Ethics in Paediatrics					
	Health Promotion					
	Personalized Medicine					

	Nutrition of Healthy and Unhealthy Child					
	Balneoclimatology					
59	Clinical Practical Training					
60	Graduation Paper					
Total		Active teaching				330
		Professional practice				
		Teaching hours at 6. study year				