

Medicine curriculum

MD CURRICULUM 2022/2023

Medicine – English Language Education

I year - Winter semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Physics	30/60	7	Examination
2.	Cytology, General Histology and Human Embryology	50/40	7	Examination
3.	Human Biology	30/30	4	Certification
4.	Chemistry	30/30	4	Certification
5.	Latin Language and Medical Terminology	15/15	2	Certification
6.	Human Anatomy and Histology	15/30	5	Certification
7.	General Bulgarian Language – A1	30/120	5	Certification
8.	Physical Education and Sport	0/30	1	Certification

I year - Summer semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Biophysics	30/30	4	Examination
2.	Human Biology	15/30	5	Examination
3.	Chemistry	30/15	3	Examination
4.	Latin Language and Medical Terminology	0/30	2	Examination
5.	General Bulgarian Language – A2	30/120	6	Examination
6.	Social Medicine and Biostatistics	15/15	3	Certification

7.	Human Anatomy and Histology	30/60	10	Certification
8.	Physical Education and Sport	0/30	3	Certification

II year - Winter semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Disaster Medicine	15/30	3	Examination
2.	Social Medicine and Biostatistics	30/30	3	Examination
3.	Human Anatomy and Histology	30/60	6	Certification
4.	Biochemistry	45/45	6	Certification
5.	Physiology	60/45	8	Certification
6.	General Bulgarian Language – B1	0/120	5	Certification
7.	Physical Education and Sport	0/30	1	Certification

II year - Summer semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Human Anatomy and Histology	45/75	9	Examination
2.	Biochemistry	45/45	10	Examination
3.	Physiology	45/45	10	Examination
4.	General Bulgarian Language – B2	0/150	5	Examination
5.	Physical Education and Sport	0/30	1	Examination

III year - Winter semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
----------	----------------	-------------------------------------	---------------------	----------------------------

1.	Medical Ethics	15/15	2	Examination
2.	General Pathology	60/30	4	Examination
3.	Medical Psychology	15/15	2	Examination
4.	Hygiene and Ecology	30/30	3	Certification
5.	Microbiology	45/30	5	Certification
6.	Pathophysiology	30/30	4	Certification
7.	Propaedeutics of Internal Medicine	30/90	6	Certification
8.	General and Operative Surgery	30/45	4	Certification
9.	Terminology and Communication in Medical Practice	0/90	3	Certification

III year - Summer semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Hygiene and Ecology	30/30	2	Examination
2.	Microbiology	45/30	4	Examination
3.	Pathophysiology	30/30	3	Examination
4.	Propaedeutics of Internal Medicine	30/90	6	Examination
5.	General and Operative Surgery	30/60	4	Examination
6.	Terminology and Communication in Medical Practice	0/90	4	Examination
7.	Pharmacology	30/45	5	Certification
8.	Roentgenology and Radiology	15/15	3	Certification
9.	Clinical Pathology	15/15	3	Certification
10.	Summer practice after VI th semester	30 days	5	Certification

IV year – Winter semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Medical Genetics	30/30	3	Examination
2.	Otorhinolaryngology	45/45	4	Examination
3.	Pharmacology	30/45	2	Examination
4.	Roentgenology and Radiology	30/45	2	Examination
5.	Clinical Immunology	15/15	2	Examination
6.	Clinical Pathology	15/30	2	Certification
7.	Neurology	30/30	3	Certification
8.	Obstetrics and Gynaecology	30/30	1	Certification
9.	General (Family) Medicine	17/16	2	Certification
10.	Internal Medicine – Part I	45/90	6	Certification
11.	Surgery	30/60	3	Certification

IV year – Summer semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Physiotherapy and Rehabilitation	15/30	2	Examination
2.	Occupational Diseases	15/15	2	Examination
3.	Ophthalmology	30/45	3	Examination
4.	Neurosurgery	15/15	2	Examination
5.	Clinical Pathology	30/30	2	Examination
6.	Neurology	30/30	2	Examination
7.	General (Family) Medicine	17/16	1	Examination
8.	Internal Medicine – Part I	45/90	5	Examination

9.	Clinical Laboratory	30/30	3	Examination
10.	Obstetrics and Gynaecology	30/45	4	Certification
11.	Dermatology and Venereology	15/30	2	Certification
12.	Surgery	30/30	2	Certification
13.	Summer practice after VIII th semester	30 days	5	Certification

V year - Winter semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Orthopaedics and Traumatology	30/60	4	Examination
2.	Urology	15/30	2	Examination
3.	Anaesthesiology, Resuscitation and Intensive care	30/30	3	Examination
4.	Obstetrics and Gynaecology	30/45	3	Examination
5.	Dermatology and Venereology	15/30	2	Examination
6.	Clinical Pharmacology	14/19	2	Examination
7.	Surgery	15/30	2	Certification
8.	Paediatrics	45/60	3	Certification
9.	Epidemiology, Infectious Diseases, Medical Parasitology and Tropical Medicine	30/30	2	Certification
10.	Internal Medicine – Part II	45/120	5	Certification
11.	Psychiatry	15/30	2	Certification

V year - Summer semester:

№	Subject	Number of Lectures/ Seminars	ECTS Credits	Type of examination
1.	Surgery	30/30	3	Examination

2.	Paediatrics	45/60	6	Examination
3.	Epidemiology, Infectious Diseases, Medical Parasitology and Tropical Medicine	30/60	4	Examination
4.	Forensic Medicine and Deontology	45/30	3	Examination
5.	Internal Medicine – Part II	60/120	9	Examination
6.	Psychiatry	15/30	2	Examination
7.	Oncology	30/30	3	Examination

VI year: Internship

№	Subject	Duration in Days	ECTS Credits	Type of examination
1.	Internal Diseases	85	16	Examination
2.	Surgery	75	14	Examination
3.	Paediatrics	51	10	Examination
4.	Obstetrics and Gynaecology	50	10	Examination
5.	Infectious diseases, Epidemiology, Hygiene and Social Medicine	35	8	Examination
6.	General Medicine	14	2	Certificate for conducted training

ELECTIVES

№	Subject	Department	Number of Lectures/ Seminars	ECTS Credits	Available after Semester
1.	First Aid at Home and at the Office	Disaster Medicine and Maritime Medicine	0/15	1	II (summer)
2.	Maritime Incidents	Disaster Medicine and Maritime Medicine	0/30	2	III (winter)

3.	Medical Psychology and Medical Sociology	Social Medicine and Health Care Organization	30/30	5	IV (summer)
4.	Molecular Biology in Medicine	Biochemistry, Molecular Medicine and Nutrigenomics	30/0	2	IV (summer)
5.	Emergency Medical Aid in Disaster	Disaster Medicine and Maritime Medicine	0/30	2	IV (summer)
6.	Neurobiology	Anatomy and Cell Biology	34/16	2	V*
7.	Child-Adolescent Psychology in Health and Disease	Psychiatry and Medical Psychology	7/8	2	V (winter)
8.	Clinical Microbiology	Microbiology and Virusology	30/0	2	V (winter)
9.	Virtual anatomy and 3D modelling	Anatomy and Cell Biology	16/16	2	VI (summer)
10.	Current Issues of Nutrition of a Healthy and Sick Person	Hygiene and Epidemiology	15/15	2	VI (summer)
11.	Maritime Medicine	Disaster Medicine and Maritime Medicine	24/6	2	VII (winter/summer)
12.	Support for breastfeeding	Hygiene and Epidemiology	8/22	2	VII (winter)
13.	Cardiac Surgery for Acquired Cardiovascular Diseases in Adult Patients	Cardiovascular Surgery and Angiology	28/12	2	VIII (summer)
14.	Promotion of the Eye Health	Ophthalmology and Visual Sciences	10/20	2	VIII (summer)
15.	Modern Treatment of Infertility in the Family	Obstetrics and Gynaecology	30/30	3	VIII (winter/summer)

16.	Cardiology	First Department of Internal Diseases, ES Cardiology	42/0	2	VIII (summer)
17.	Emergency Medicine	Anaesthesiology, Emergency, Intensive and Maritime Medicine	16/12	2	IX (winter/summer)
18.	Tropical Medicine	Infectious Diseases, Parasitology and Dermatovenereology	45/64	4	IX*
19.	Modern Neuroscience: Nanotechnology, Personalised and Translational Medicine	Neurology and Neuroscience	16/14	2	IX (winter)
20.	Neurosciences, Fundamental and Clinical Psychopharmacology	Psychiatry and Medical Psychology	15/0	2	IX (winter)
21.	Epidemiology of HIV/AIDS	Hygiene and Epidemiology	14/10	2	IX (winter)
22.	Ultrasound Diagnostics in Gastroenterology	ES Gastroenterology, Hepatology and Nutrition. Second Department of Internal Diseases	14/6	2	X (summer)
23.	Clinical Haematology	ES Haematology	14/6	2	X (summer)
24.	Basic Homeopathic Therapy Course	Medical College Director	30/0	2	X (summer)
25.	Clinical Epidemiology and Infection Control	Clinical Medical Sciences	15/15	2	X (summer)

26.	Clinical Toxicology. Drug Intoxication	Pharmacology, Toxicology and Pharmacotherapy	12/18	2	X (summer)
-----	---	--	-------	---	------------

* The duration of the elective subject is 2 semesters.

NB! Students shall state their choice by submitting a request on <https://webstudent.mu-varna.bg/>, section "STUDY PROCESS" – "Elective subjects", not later than two weeks after the beginning of the semester.

Dental Medicine curriculum

PROGRAMME OF DENTAL MEDICINE CURRICULUM

Duration of 6 years, incl. 10 semesters; state clinical practice (internship)

after the 10th semester – 135 working days (1080 hours) and two training practices of 30 calendar days

(150 hours) after the 6th and 8th semester

I year

	Study Subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS Credits
1.	Chemistry	60	4
2.	Physics	60	4
3.	Human Biology, human genetics	105	6
4.	Latin Language	60	5
5.	Computers	30	4
6.	Cytology, General Histology and Human Embryology	45	4
7.	Anatomy and Human Histology	150	7

8.	Biochemistry	60	5
9.	Biophysics	30	3
10.	Dental Materials	60	8
11.	Sport	60	1
12.	Functional Anatomy of the Masticatory System, Dental Morphology and Occlusion	120	9
13.	General Bulgarian language – A1/A2	300	2

II year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS Credits
1.	Anatomy and Human Histology	105	8
2.	Biochemistry	60	5
3.	Foreign Language	60	5
4.	Human Physiology	150	5
5.	Social Medicine and Medical Ethics	60	2
6.	Medical Psychology	30	2
7.	Medicine in Disastrous Situations	30	2
8.	Pharmacology	45	3
9.	Pathological Anatomy	45	3
10.	Sport	60	4
11.	Propaedeutics Prosthetic Dentistry	195	12

12.	Propaedeutics Pediatric Dentistry	30	3
13.	Propaedeutics Conservative Dentistry	30	3
14.	General Bulgarian language – B1/B2	270	2

III year

1.	Pharmacology	45	4
2.	Pathological Anatomy	45	3
3.	Propaedeutics Prosthetic Dentistry	60	2
4.	Propaedeutics Pediatric Dentistry	30	3
5.	Propaedeutics Conservative Dentistry	150	7
6.	Hygiene and Epidemiology	60	4
7.	Microbiology	90	6
8.	Pathophysiology	60	5
9.	Surgery incl. Anesthesiology and Emergencies	75	3
10.	Otorhinolaryngology	30	2
11.	Public Dental Health	105	5
12.	Propaedeutics of Oral and Maxillofacial Surgery	120	6
13.	Dental Prophylaxis	30	2
14.	Roentgenology (general and special)	60	3
15.	Clinic of Prosthetic Dentistry	105	5
16.	Clinic of Pediatric Dentistry	45	3
17.	Terminology and Communication in Dental Medical Practice	180	2
18.	Practice after 6-th Semester	150 hours	-

IV year

1.	Dental Prophylaxis	30	4
2.	Roentgenology (general and specific)	45	4
3.	Clinic of Prosthetic Dentistry	120	6
4.	Clinic of Pediatric Dentistry	90	4
5.	Internal Medicine (General Pathology)	90	4
6.	Pediatrics and Infectious Diseases	60	3
7.	Forensic Medicine	30	2
8.	Obstetrics and Gynecology	30	2
9.	Oral Pathology	30	2
10.	Dental Allergology	30	3
11.	Clinic of Conservative Dentistry	180	8
12.	Clinic of Oral and Maxillofacial Surgery: Clinic, Polyclinic	210	6
13.	Orthodontics	105	7
14.	Periodontology and Diseases of Oral Mucosa (DOM)	90	5
15.	Physiotherapy (general and specific)	30	2
16.	Practice after 8-th Semester	150 hours	-

V year

1.	Clinic of Prosthetic Dentistry	120	9
2.	Clinic of Conservative Dentistry	180	9
3.	Clinic of Oral and Maxillofacial Surgery: Clinic, Polyclinic	180	9
4.	Clinic of Pediatric Dentistry	105	9
5.	Orthodontics	120	8
6.	Periodontology and Diseases of the Oral Mucosa (DOM)	150	8

7.	Dermatology	45	2
8.	Neurology and Psychiatry	30	2
9.	Ophthalmology	30	2

State clinical practice (internship) after the 10th semester – 135 working days (1080 hours)

№	State clinical practice (internship)	Days
1.	Prosthetic Dentistry	30
2.	Oral and Maxillofacial Surgery	30
3.	Conservative Dentistry	30
4.	Pediatric Dentistry	15
5.	Orthodontics	15
6.	Periodontology and Diseases of the Oral Mucosa	15

№	State Examinations	ECTS Credits
1.	Prosthetic Dentistry	14
2.	Oral and Maxillofacial Surgery	14
3.	Conservative Dentistry	11
4.	Pediatric Dentistry	8
5.	Orthodontics	8
6.	Periodontology and Diseases of the Oral Mucosa	5

ELECTIVES (not all offered in English)

№	Subject	Number of Lectures & Seminars	ECTS Credits
1	Nanomaterials and Nanotechnology in Dentistry	15	2
2	Dental Implantology	15	2

3	Psychoanalysis	30	2
4	Phytotherapy	30	2
5	Obstructive sleep apnea and snoring. Diagnostics. Treatment. Prevention	30	2
6	Pathophysiology of some socially significant diseases	30	2
7	Immunology	15	2
8	Dental photography	15	2
9	First Aid at Home and in the Office	15	2

Pharmacy curriculum

PROGRAMME OF PHARMACY CURRICULUM

*Duration of 5 years, incl. 10 semesters; pre-graduation internship in a pharmacy
after the 9th semester –120 working days (720 hours) and two training practices of 6 calendar days each
(48 hours each) after the 4th and 6th semester*

1 year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	Biology	60	4
2.	Mathematics and Information Technologies	90	7
3.	General and Inorganic Chemistry	90	8
4.	History of Pharmacy	30	2

5.	Latin Language and Medical Terminology	60	4
6.	Human Anatomy	45	4
7.	Physics and Biophysics	75	7
8.	Statistical Methods in Pharmacy	45	4
9.	Organic Chemistry	120	10
10.	General Bulgarian language*	300	10
11.	Analytical Chemistry	45	4
12.	Sport	60	4

II year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	General Bulgarian language*	270	9
2.	Analytical Chemistry	75	6
3.	Biochemistry	90	8
4.	Human Physiology	75	7
5.	Physical Chemistry and Colloid Chemistry	90	9
6.1	Pathophysiology	45	4
6.2.	Pathoanatomy	30	3
7.	Microbiology and Virology	120	10
8.	Pharmaceutical Botany	60	7
9.	Sport	60	4
10.	Practical Training in Botany after 2 nd year	6 days/48 hours	2

III year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	Hygiene and Ecology	45	2
2.	Medical Devices	30	1
3.	Pharmaceutical Botany	60	4
4.	Medical Genetics	30	1
5.	Pharmaceutical Technology 1 st part	210	12
6.	Social Pharmacy and Pharmaceutical Legislation	135	9
7.	Pharmaceutical Chemistry	210	14
8.	Pharmacology	180	11
9.	Pharmacognosy	90	6
10.	Practical Training in Pharmacognosy after 3 rd year	6 days/48 hours	2

IV year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	Pharmaceutical Technology 2 nd part	210	14
2.	Pharmacognosy	180	12
3.	Toxicology	90	6
4.	Clinical Chemistry	30	2
5.	Introduction to Medicine	30	2
6.	Pharmaceutical Analysis	210	14
7.	Pharmacoeconomics	60	4

8.	Pharmacotherapy	75	6
----	-----------------	----	---

V year

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	Biopharmacy and Pharmacokinetics	90	10
2.	Pharmacotherapy	75	10
3.	Pharmaceutical Care	60	4
4.	Basics of Clinical Pharmacy	45	4
5.	Radiopharmacy	30	2
6.	Pre-graduation Internship in a Pharmacy after the 9 th semester	120 days/ 720 hours	30

	Final State Examinations	ECTS credits
1.	Pharmaceutical Chemistry and Pharmaceutical Analysis	3
2.	Pharmacognosy, Pharmacology and Toxicology	6
3.	Pharmaceutical Technology and Biopharmacy	3
4.	Social Pharmacy and Pharmaceutical Legislation	3

ELECTIVES (not all offered in English)

	Study subjects	Number of Teaching Hours (Lectures & Seminars)	ECTS credits
1.	Applied Mathematics	30	4

2.	Immunology and Biotechnology	30	4
3.	Food safety and Nutrition Values	30	4
4.	Environment and Health	30	4
5.	Functional Foods and Nutraceuticals	30	4
6.	Phytopharmacology	30	4
7.	HPLC Analysis of the Pharmacologically Active Substances	30	4
8.	Technology of Medicinal Cosmetics	30	4
9.	Addictions	30	4
10.	Clinical Homeopathy	30	4
11.	Pathophysiology of Some Socially Significant Diseases	30	4
12.	Molecular Pharmacology	30	4
13.	Omic Sciences in Pharmacy	30	4
14.	Poisonous Plants and Animals	30	4
15.	Pharmaceutical Marketing	30	4
16.	Dermatopharmacology and Cosmetology	30	2
17.	Chemistry of Antibiotics	30	2
18.	Disaster Medicine (for Masters of Science in Pharmacy)	30	2
19.	Biological Role, Mechanism of Action and Pharmacological Application of Macroelements and their Salts	30	4
20.	Organizational Culture and Management of the organization in the Pharmaceutical Sector.	30	2