



L'enseignement de la médecine à L'Université de médecine de Sofia – Structure, modules et crédits

Vassil Hadjidekov



MEDICAL UNIVERSITY – SOFIA

- The oldest medical institution of higher education in Bulgaria
- Was founded by the Decree of His Majesty King Ferdinand in 1917



MEDICAL UNIVERSITY – SOFIA

**Since its foundation
more than 52 000 specialists
3000 foreign citizens included
during the academic year 2009/2010
6241 students,
1241 international students from 52 countries**



MEDICAL UNIVERSITY – SOFIA

The ultimate goal of the University to teach and train students

- under-,
- post-graduates
- and Ph.D.



MEDICAL UNIVERSITY – SOFIA

main objectives of the University are

- To provide high quality of education in a surrounding enriched by research work;
- To preserve and strengthen its position as educational and scientific; institution of the highest international quality;
- To form high professional and humane qualities of its graduates in the spirits of the European democracy and tolerance



MEDICAL UNIVERSITY – SOFIA

main objectives of the University are

- To form high professional and humane qualities of its graduates in the spirits of the European democracy and tolerance
- to provide forming of high quality lecturers and improve their effectiveness

MEDICAL UNIVERSITY – SOFIA

joined the SOCRATES/ERAZMUS programme
of the European Community in the 1999 year



MEDICAL UNIVERSITY – SOFIA

ECTS

EUROPEAN CREDIT TRANSFER SYSTEM

introduced at the Medical University - Sofia in the
academic year 2000/2001

MEDICAL UNIVERSITY – SOFIA

STRUCTURE

- Faculty of Medicine,
- Faculty of Dental Medicine,
- Faculty of Pharmacy,
- Faculty of Public Health,
- Medical College – Sofia
- Department of Language Education and Student's Sport,,
- Subsidiary – Vratsa.
- Preclinical Center
- Central Medical Library.
- Twelve university hospitals are the clinical bases of the University.

FACULTY OF MEDICINE

the largest and most prestigious medical school with nearly a century of educational, scientific and medical expertise on a national scale



FACULTY OF MEDICINE

65 professors,

179 associate professors

670 assistants

involved in 47 Departments

and hospitals



FACULTY OF MEDICINE

active member of the following international organizations

- Association for Medical Education in Europe
- Association for the Study of Medical Education
- Association of the Medical Schools in Europe
- International Association of Medical Science Educators
- Alliance for Continued Medical Education

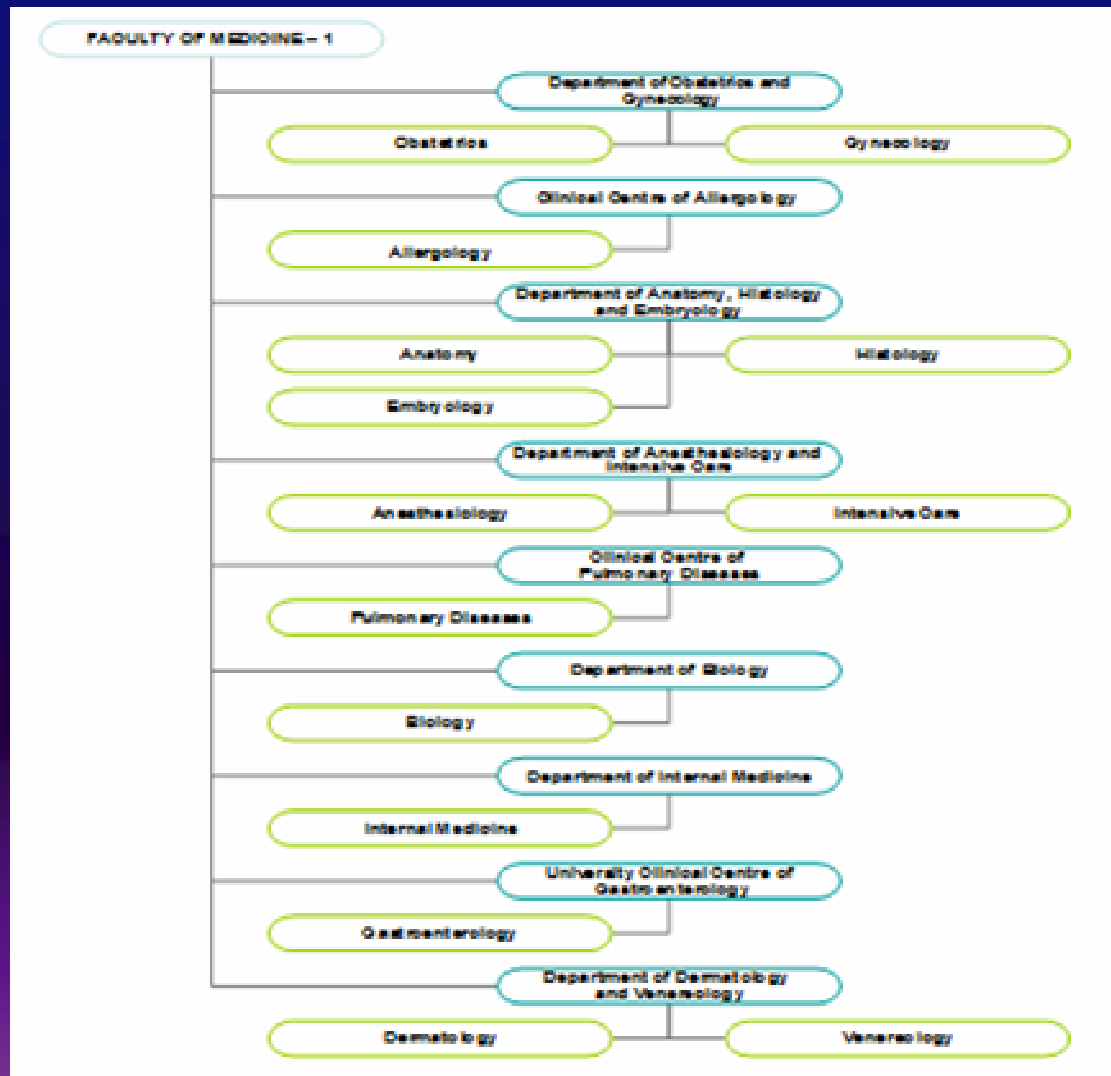
FACULTY OF MEDICINE

Lumina

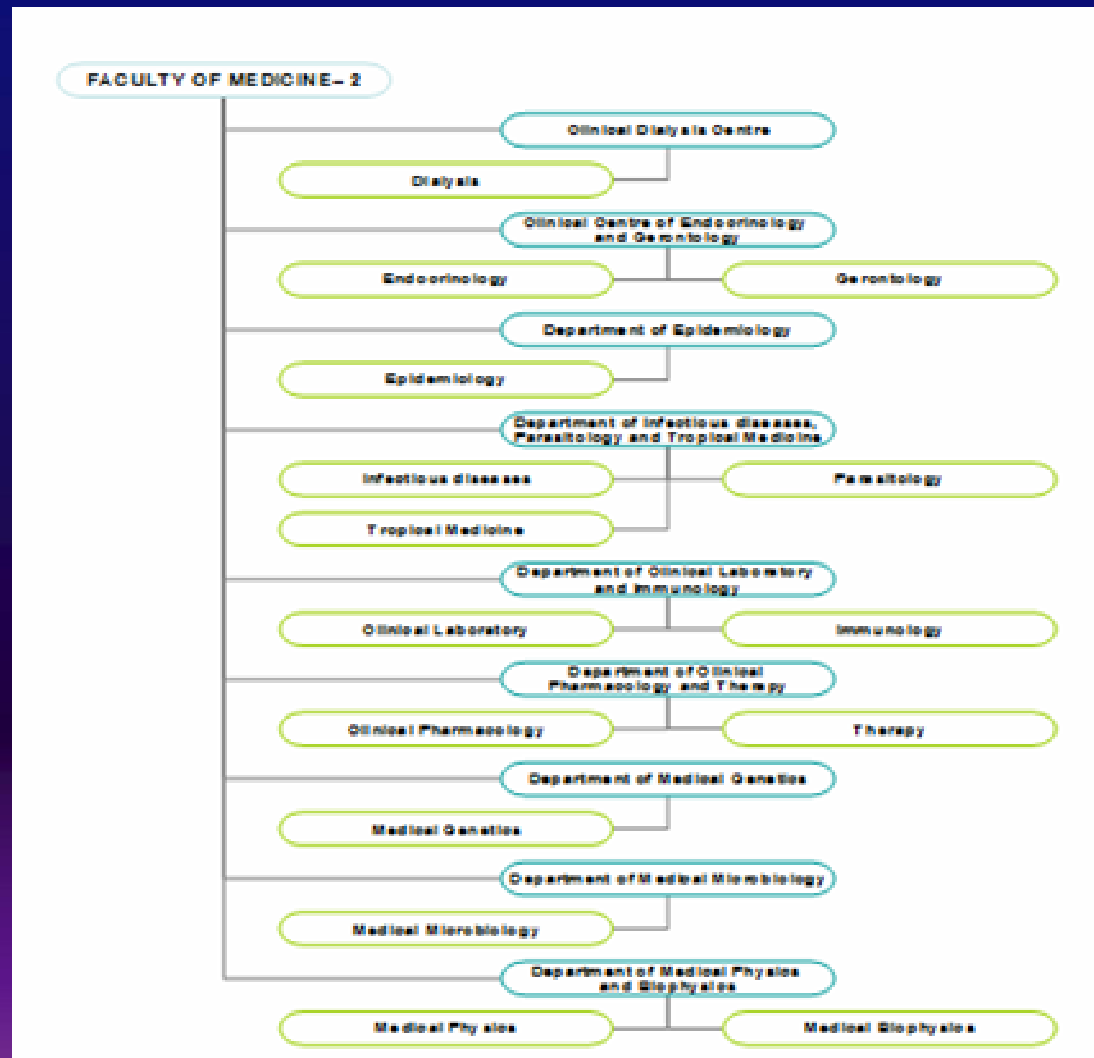
electronic survey system



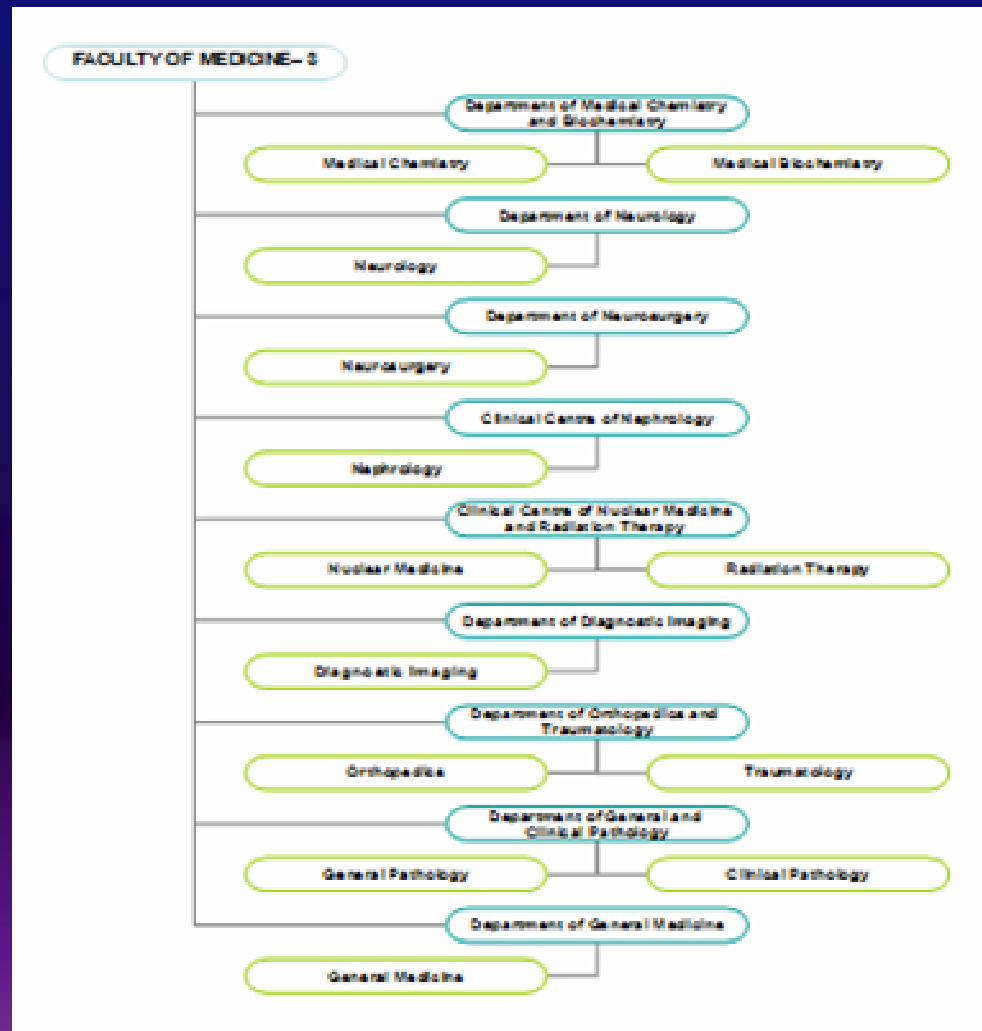
FACULTY OF MEDICINE



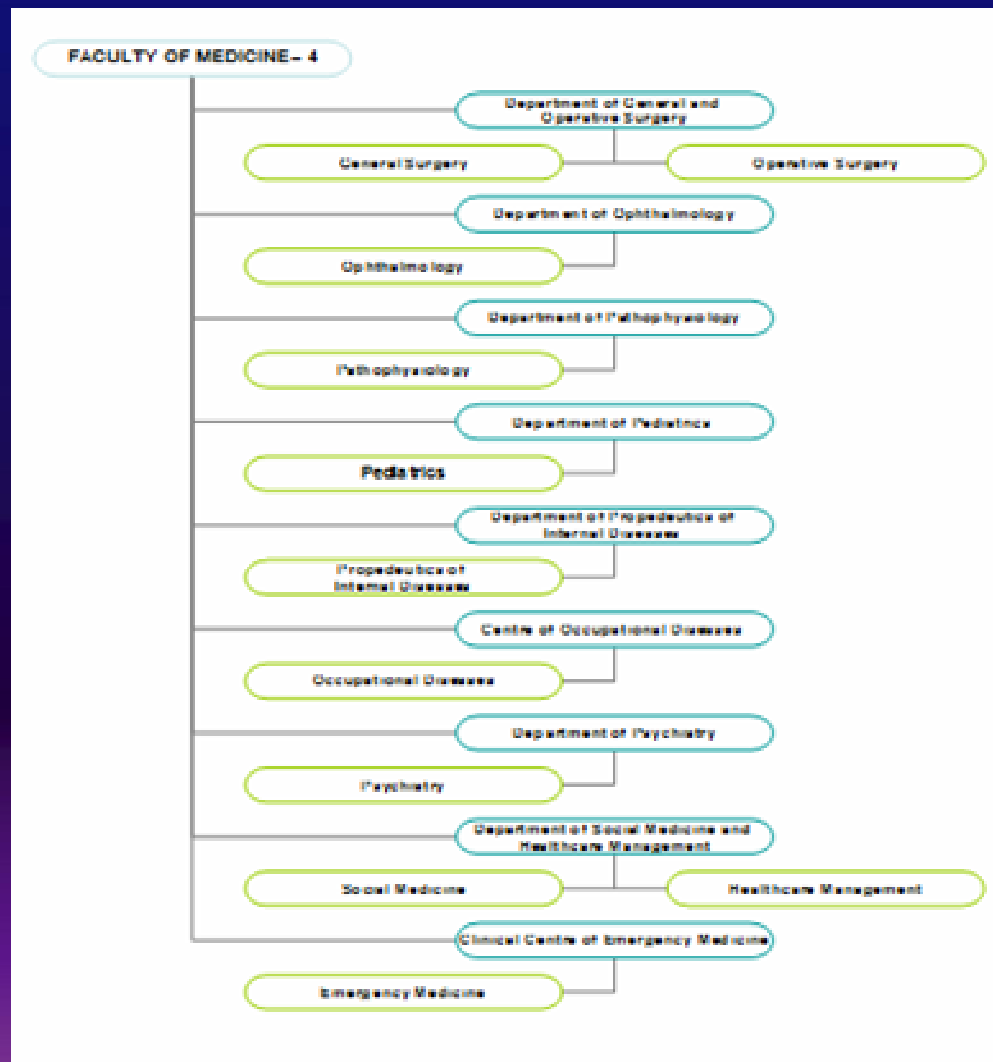
FACULTY OF MEDICINE



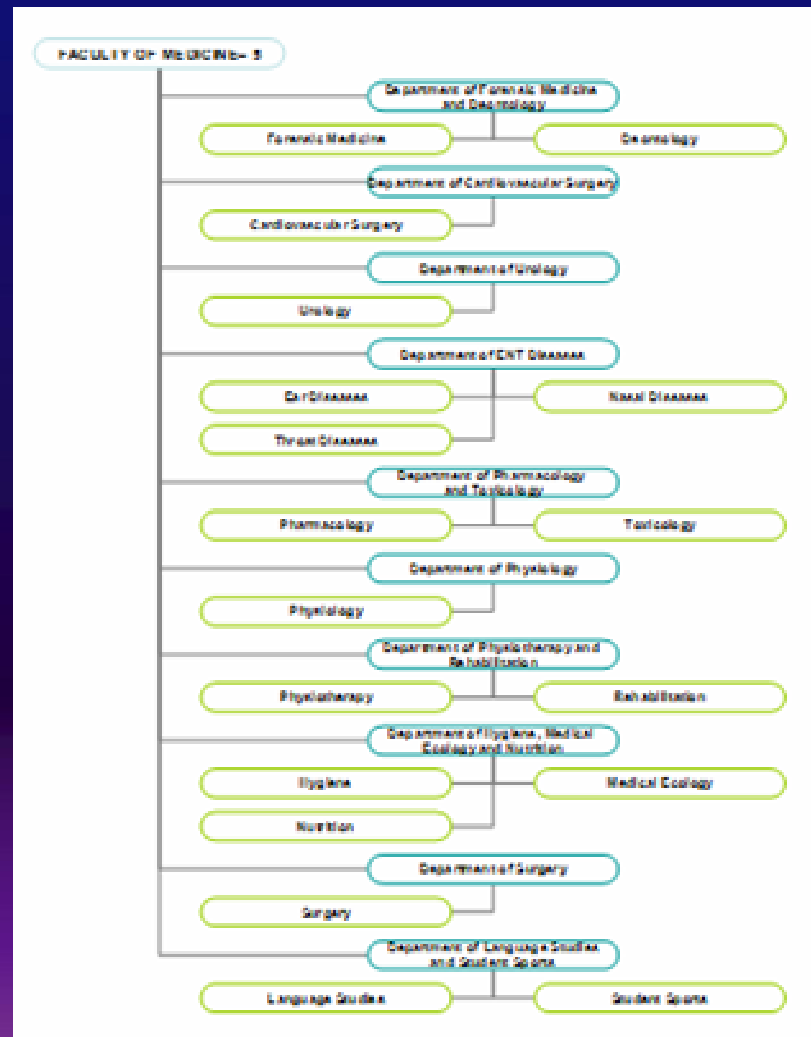
FACULTY OF MEDICINE



FACULTY OF MEDICINE



FACULTY OF MEDICINE



FACULTY OF MEDICINE

Mission Statement

Development of the current dynamic European higher education system for medical education through teaching, science, erudition and service to society



FACULTY OF MEDICINE

Goals of the mission

Education

Comparable with high international standards of academic achievement for undergraduate, graduate and post graduate medical education



FACULTY OF MEDICINE

Goals of the mission

Education

Graduation of medical specialists who are competitively prepared to face current and future healthcare needs of the Bulgarian citizens as part of the European family

- Oriented towards preventive care
- Responsible, critical, competent, and capable of solving problems
- Multidisciplinary team oriented
- Capable of pursuing lifelong professional medical education
- Graduates with such qualities as altruism, sympathy, dedication, decency, loyalty and respect to the patient, colleagues and the profession

FACULTY OF MEDICINE

Research

- Programs which discover fundamental mechanisms of the health and illness
- Development and analysis of clinical strategies for medical treatment
- Collaboration among pre clinical and clinical sciences, members of the Faculty of Medicine and researchers from other science fields
- Policy that encourages high academic, professional and personal achievements

FACULTY OF MEDICINE

Health activity

- Graduates of the Faculty of Medicine conduct health activity, based on exemplary medical practice and proven science facts
- Active participation in national and international professional organizations is highly encouraged



FACULTY OF MEDICINE

- The first stage – preclinical training.
- The second stage – clinical training aims at acquiring knowledge for diagnostics and treatment. - a cyclic way
- The third stage – pre-graduation internship



FACULTY OF MEDICINE

- Five state examinations in: Internal Medicine, Surgery, Pediatrics, Obstetrics and Gynecology and Hygiene and Ecology.
- The successful graduates are awarded Master's degree and "The Physician Certificate".
- a European Supplement as well

FACULTY OF MEDICINE

The first year of the programme covers

- Anatomy and Histology,
- Cytology,
- Biology,
- Physics,
- Chemistry,
- Medical Ethics,
- Latin language,
- Bulgarian language



FACULTY OF MEDICINE

First Year Credits

| DISCIPLINES | CREDITS |
|-----------------------|---------|
| Cytology | 6,6 |
| Medical Ethics | 3,2 |
| Biology | 8,2 |
| Physics | 5,8 |
| Chemistry | 5,8 |
| Latin language | 4,9 |
| Anatomy and Histology | 10,2 |
| Foreign language | 3,9 |
| Sport | 3,4 |
| Summer practice | 5,8 |

FACULTY OF MEDICINE

The second year

- Anatomy and Histology,
- foreign language
- Biophysics,
- Biochemistry
- Physiology,
- Medical informatics and Biostatistics,
- Social Medicine,
- General Medicine
- Medical Psychology
- History of Medicine

FACULTY OF MEDICINE

Second Year - credits

| DISCIPLINES | CREDITS |
|-----------------------|---------|
| Biophysics | 4 |
| Medical informatics | 2,3 |
| Sports | 1,2 |
| Anatomy and Histology | 10,8 |
| Physiology | 12 |
| Biochemistry | 10,4 |
| Foreign language | 3,4 |
| General medicine | 3,2 |
| Social medicine | 2,3 |
| Microbiology | 4 |
| Summer practice | 4,8 |

FACULTY OF MEDICINE

| | |
|--|-------------|
| Total First year | 57,8 |
| Elective courses compulsory - choice up to | 2,2 |
| Total Second Year | 58,4 |
| Elective courses compulsory - choice up to | 1,6 |
| For participation in research projects /advisory/ | 1,6 |

FACULTY OF MEDICINE

The third year -beginning of the clinical years

- Propaedeutics of Internal Medicine,
- General and Operative Surgery,
- Medical Genetics,
- Pharmacology, Pathology,
- General Pathology,
- Medicine of Disasters,
- Social Medicine
- Microbiology,
- Pathophysiology

FACULTY OF MEDICINE

Third Year

| DISCIPLINES | CREDITS |
|------------------------------------|----------------|
| Social medicine | 2,9 |
| Microbiology | 3,7 |
| Medicine of disasters | 2,3 |
| Medical Genetics | 2,9 |
| Pathophysiology | 6,8 |
| Pharmacology | 8,6 |
| General Pathology | 6,2 |
| Propaedeutics of internal diseases | 11,6 |
| General and Operative Surgery | 8,6 |
| Summer practice | 4,8 |

FACULTY OF MEDICINE

Third Year

| | |
|--|-------------|
| Total Third Year | 58,4 |
| Elective courses compulsory -choice up to | 1,6 |
| For participation in research projects /advisory/ | 1,6 |
| Total | 58,4 |

FACULTY OF MEDICINE

Fourth and fifth years

- Radiology, NM, RTh
- Oto-Rhyno-Laryngology,
- Hygiene,
- Ecology and Occupational Diseases,
- Clinical Pathology, Ophthalmology
- Neurology,
- Obstetrics and Gynecology,
- Clinical Pharmacology,
- Dermatology and Venerology,
- Internal Diseases,
- Clinical Laboratory and Clinical Immunology,
- Surgery,
- Orthopedics and Traumatology,
- Pediatrics

FACULTY OF MEDICINE

Fourth Year

| DISCIPLINES | CREDITS |
|--|---------|
| Image Diagnostics, Nuclear Medicine and Rational Therapy | 5 |
| Oto-Rhino-Laryngology | 4,6 |
| Ophthalmology | 4,6 |
| Hygiene, Ecology and Occupational diseases | 7,3 |
| Neurology | 7,4 |
| Clinical Pathology | 5,5 |
| Internal Diseases | 18,4 |
| Surgery | 4,3 |

FACULTY OF MEDICINE

Fourth Year

| | |
|--|-------------|
| Total | 57,1 |
| Elective courses /advisory/ - choice up to | 2,9 |
| For participation in scientific session with a paper /advisory/ | 1,3 |
| A publication in Bulgarian magazines /advisory/ | 1,6 |
| A publication in international magazines /advisory/ | 3 |

FACULTY OF MEDICINE

Fifth year

| DISCIPLINES | CREDITS |
|------------------------------|----------------|
| Internal Diseases | 10,2 |
| Surgery | 10,2 |
| Obstetrics and Gynecology | 10,5 |
| Pediatrics | 10,9 |
| Orthopedics and Traumatology | 4,6 |
| Dermatology and Venerology | 4,6 |
| Clinical laboratory | 3,1 |
| Clinical Immunology | 1,5 |
| Clinical Pharmacology | 3,1 |

FACULTY OF MEDICINE

| | |
|--|-------------|
| Total | 58,7 |
| Elective courses /advisory/ - choice up to | 1,3 |
| For participation in scientific session with a paper /advisory/ | 1,3 |
| A publication in Bulgarian magazines /advisory/ | 1,6 |
| A publication in international magazines /advisory/ | 3 |

FACULTY OF MEDICINE

sixth year

- Psychiatry
 - Urology
 - Anesthesiology and Reanimation, Epidemiology
 - Infectious Diseases, Medical Parasitology and Tropical Diseases, Physical Therapy and Rehabilitation,
 - Forensic Medicine and Deontology.
- clinical clerkships in
- Internal Medicine,
 - Surgery
 - Pediatrics
 - Obstetrics and Gynecology,
 - General Medicine
 - Hygiene, Infectious Diseases, Epidemiology and Social Medicine

FACULTY OF MEDICINE

Sixth year

| DISCIPLINES | CREDITS |
|--|----------------|
| Epidemiology, Infectious Diseases, Parasitology, Tropical Diseases | 9,2 |
| Forensic Medicine and Deontology | 4,6 |
| Psychiatry | 4,6 |
| Anesthesiology and Reanimation | 4,6 |
| Physiotherapy | 3,1 |
| Urology | 3,1 |
| Total | 29,2 |
| Elective courses /advisory/ - choice up to | 1 |
| For participation in scientific session with a paper /advisory/ | 1,3 |
| A publication in Bulgarian magazines /advisory/ | 1,6 |

FACULTY OF MEDICINE

PRE-GRADUATE PROBATION

| DISCIPLINES | TOTAL |
|---|--------------|
| Internal Diseases | 12,6 |
| Surgery | 12,6 |
| Obstetrics and Gynecology | 12,6 |
| Pediatrics | 12,6 |
| Hygiene, Epidemiology, Infectious Diseases, and Social Medicine | 14,2 |
| General Medicine | 4,8 |
| Emergency Medicine | 3,0 |
| State exam session | 16 |
| Total | 88,4 |

FACULTY OF MEDICINE

- postgraduate qualifications in 52 basic specialties is also available.
- The education - 3 to 5 years
- National programme
- final examination in front of a State Examination Commission.
- 47 departments and clinical centers



FACULTY OF DENTAL MEDICINE

- In accordance with the European directives and the Bulgarian legal requirements the name of the faculty was changed as Faculty of Dental Medicine in 2007



FACULTY OF DENTAL MEDICINE

- From 1942 till 2007 the faculty was graduated by 9988 Bulgarian and 835 international students from 55 countries



FACULTY OF DENTAL MEDICINE

- Master's degree in dental medicine awarded
- after 10 semesters or 5 years successful education –
- pre-graduate probation is after the 10th semester – 135 days (or 1080 hours)
- two clinical clerkships – 30 calendar days (or 150 hours) after the 6th and the 8th semester



FACULTY OF DENTAL MEDICINE



three stages

- the first two years - medico biological training
- from the second to the tenth semester - general medical and specialized dental disciplines

The pre diploma internship

- Pediatric dental medicine,
- Therapeutic dental medicine,
- Oral and maxillofacial surgery,
- Prosthetic dental medicine, Periodontology and Orthodontics

FACULTY OF DENTAL MEDICINE

first year

- Physics,
- Chemistry,
- Biology,
- Latin,
- Foreign language,
- Anatomy and Histology, Cytology and Embryology
- Biochemistry,
- Dental and Biomaterials,
- Pre-clinics of prosthetic dental medicine,
- Computer technique

FACULTY OF DENTAL MEDICINE

second year

- Biochemistry,
- Biophysics, Anatomy and Histology,
- Physiology,
- Microbiology,
- Social medicine and medical ethics,
- Medical Psychology,
- Disaster medicine
- Pharmacology
- Pre-clinics of prosthetic dental medicine,,
- Pre-clinics of pediatric dental medicine,
- Pre-clinics of conservative dental medicine,

FACULTY OF DENTAL MEDICINE

third year

- General and clinical pathology,
- Diagnostic Imaging,
- Pathoanatomy,
- Pathophysiology,
- Pharmacology,
- General surgery
- Pre-clinics of conservative dental medicine
- Dental Public Health,
- Oral pathology
- Clinics of Prosthetic dental medicine,
- Pre-clinics of pediatric dental medicine,
- Pre-clinics of oral and maxillofacial surgery
- Clinics of pediatric dental medicine,



FACULTY OF DENTAL MEDICINE

fourth year

- Diagnostic Imaging,
- Oto-rhyno-laryngology,
- Internal diseases,
- Forensic medicine,
- Pediatrics and infectious diseases,
- Obstetrics and gynecology,
- Clinics of prosthetic dental medicine,
- Clinics of conservative dental medicine,
- Orthodontics,
- Clinics of pediatric dental medicine,
- Clinics of oral and maxillofacial surgery,
- Clinical Dental allergology,
- Periodontology



FACULTY OF DENTAL MEDICINE

fifth year

- Physiotherapy
- Dermatology and venereal diseases,
- Neurology and psychiatry,
- Ophthalmology
- Clinics of conservative dental medicine,
- Oral and maxillofacial surgery
- Clinics of prosthetic dental medicine
- , Clinics of pediatric dental medicine
- Orthodontics,
- Periodontology

FACULTY OF DENTAL MEDICINE

- the sixth year
 - Pregraduation internship
- Pre-graduation internship,
- Prosthetic dental medicine,
- Conservative dental medicine,
- Oral and maxillofacial surgery,
- Pediatric dental medicine,
- Orthodontics,
- Periodontology;

FACULTY OF DENTAL MEDICINE

Each student" has to have 60 credits per year from the following:

- Compulsory courses
- Involvement in scientific research programs
- Involvement in scientific reports
- Elective courses (modules)

FACULTY OF DENTAL MEDICINE

credits

| Year | From compulsory courses | From elective courses | Total |
|------|-------------------------|-----------------------|-------|
| I | 56,4 | 3,6 | 60 |
| II | 56,3 | 3,7 | 60 |
| III | 58,8 | 1,2 | 60 |
| IV | 59,0 | 1,0 | 60 |
| V | 59,0 | 1,0 | 60 |

FACULTY OF DENTAL MEDICINE

credits I year

| | |
|---|-------------|
| Chemistry | 4,6 |
| Physics | 4,6 |
| Human Biology | 5,8 |
| Latin | 4,0 |
| Foreign Language (Bulgarian for foreign students) | 4,0 |
| Computer Science | 2,8 |
| Human Cytology and Embryology | 4,0 |
| Human Anatomy and Histology | 7,2 |
| Biochemistry | 3,4 |
| Dental Materials | 4,0 |
| Pre-clinics of Prosthetic Dental Medicine | 7,2 |
| Practical Training | 4,8 |
| Total | 56,4 |
| Elective Courses | 3,6 |

FACULTY OF DENTAL MEDICINE

credits II year

| | |
|--|------------|
| Anatomy and Histology | 7,6 |
| Biochemistry | 4,0 |
| Biophysics | 2,8 |
| Physiology | 7,6 |
| Microbiology | 5,8 |
| Social Medicine and Medical Ethics | 3,4 |
| Medical Psychology | 2,8 |
| Disaster Medicine | 2,8 |
| Pharmacology | 2,8 |
| Pre-clinics of Prosthetic Dental Medicine | 9,4 |
| Pre-clinical of Conservative Dental Medicine | 1,6 |
| Pre-clinics of Pediatric Dental Medicine | 1,6 |

FACULTY OF DENTAL MEDICINE credits III

| | |
|---|------------|
| Pharmacology | 2,8 |
| Pathophysiology | 4,0 |
| Hygiene and Epidemiology | 3,4 |
| Pathological Anatomy | 5,8 |
| Surgery incl. anesthesiology and emergency conditions | 4,0 |
| Clinics of Prosthetic Dental Medicine | 5,1 |
| Pre-clinics of Conservative Dental Medicine | 7,6 |
| Pre-clinics of Oral and Maxillofacial Surgery | 8,2 |
| Pre-clinics of Pediatric Dental Medicine | 1,5 |
| Clinics of Pediatric Dental Medicine | 2,1 |
| Dental Hygiene and Prevention | 1,5 |
| Dental Public Health | 5,2 |
| Oral Pathology (diagnosis) | 1,5 |
| Diagnostic Imaging (general and special) | 2,7 |
| Practical Training | 3,6 |

FACULTY OF DENTAL MEDICINE credits IV

| | |
|--|------------|
| Otorhinolaryngology | 2,2 |
| Internal Diseases (general pathology) | 4,6 |
| Pediatrics and Infectious Diseases | 3,4 |
| Forensics | 2,2 |
| Obstetrics and Gynecology | 1,6 |
| Clinics of Prosthetic Dental Medicine | 6,2 |
| Clinics of Conservative Dental Medicine | 8,0 |
| Clinics of Oral and Maxillofacial Surgery | 6,2 |
| Clinics of Pediatric Dental Medicine | 3,8 |
| Dental Hygiene and Prevention | 2,8 |
| Imaging Diagnostics (general and specialist) | 2,8 |
| Dental Allergology | 2,2 |
| Orthodontics | 6,2 |
| Periodontology | 3,2 |
| Practical Training | 3,6 |

FACULTY OF DENTAL MEDICINE credits V

| | |
|--|------------|
| Dermatology | 3,8 |
| Neurology and Psychiatry | 2,8 |
| Ophthalmology | 2,8 |
| Clinics of Prosthetic Dental Medicine | 7,4 |
| Clinics of Restorative Dental Medicine | 9,2 |
| Physiotherapy (general and special) | 2,8 |
| Clinics of Oral and Maxillofacial Surgery | 9,2 |
| Clinics of Pediatric Dental Medicine | 6,8 |
| Orthodontics | 6,8 |
| Periodontology | 7,4 |

FACULTY OF DENTAL MEDICINE

Year VI - Pre-graduation Training

| | |
|-----------------------------------|-------------|
| Prosthetic Dental Medicine | 14,1 |
| Oral and Maxillofacial Surgery | 14,1 |
| Conservative Dental Medicine | 11,0 |
| Pediatric Dental Medicine | 8,0 |
| Orthodontics | 8,0 |
| Periodontology | 4,8 |
| Total | 60,0 |

FACULTY OF PHARMACY

FACULTY OF PUBLIC HEALTH

- Founded in 2001
- Seven departments:
 - Department of Health Policy and Management
 - Department of Medical Ethics and Healthcare
 - Department of Medical Pedagogy
 - Department of Preventive Medicine
 - Department of Health Economics
 - Department of Occupational Medicine
 - Department of Nursing Care

FACULTY OF PUBLIC HEALTH

The mission

- creation of uniform methodological basis for educational and scientific activities in the field of public health



FACULTY OF PUBLIC HEALTH

Main objective of the faculty

- the development of the science for public health
- creation and formation of a new generation of health managers
- management of ideas and resources in the public health sector
- assistance for the management of the healthcare reform.

FACULTY OF PUBLIC HEALTH

provides training in the following specialties:

- Bachelor's and Master's degree of public health and health management
- Bachelor's and Master's degree of health care
- The faculty of Public Health provides also training in nursing. Nurses and midwives who graduated successfully are awarded Bachelor's educational degree after 4 years course.
- 240 ECTS

MEDICAL COLLEGE – SOFIA SUBSIDIARY – VRATSA

Founded in 1951

Nurse with general qualification

Children's nurse

Dentist's nurse

Midwife

Medical cosmetics

MEDICAL COLLEGE – SOFIA

The Medical College “J. Filaretova” is the oldest institution in Bulgaria for the education of medical specialists with college degree in the field of “health care”.

- three year course of education, the successful graduates of the college are awarded the educational qualification entitled “professional bachelor in...”.
- The education at the Medical College is full-time.

MEDICAL COLLEGE – SOFIA

- The specialties are as follows:
- Medical laboratory technician
- X-ray laboratory technician
- Dental technician
- Rehabilitation therapists
- Assistant-pharmacist
- Public health inspector
- Medical aesthetician (Medical cosmetics)
- Masseurs (only for candidates with impaired vision)
- Medico-social care

DEPARTMENT FOR LANGUAGE TRAINING AND STUDENTS' SPORTS

- Foreign students who are accepted at the Medical University – Sofia enroll in the preparatory study year
- Bulgarian language intensively – 650 hours,
- biology (90 h),
- human anatomy and physiology (90 h)
- medical chemistry (180 h).

CENTRAL MEDICAL LIBRARY – MEDICAL UNIVERSITY – SOFIA

- founded at the Faculty of Medicine in 1919
- includes: library-information complex, Scientific Medical Information Department, Educational and Scientific Documentation and Films Department
- posses 500 422 volumes of medical literature, 445 periodicals