Guide for international students at the Faculty of Medicine Carl Gustav Carus

TU Dresden

Non degree studies of medicine / Non degree studies of dentistry / Final year clinical practice
Welcome to the Faculty of Medicine at the TU Dresden

Dear colleague,

Studying abroad is always a bit of adventure – having experienced another country’s culture, language and ideas; friendship and professional skills are lasting values. While you may now mainly see the efforts to organize your stay, I am confident that this time in Germany will be one of your most memorable experiences in life.

I wish you a pleasant, fruitful and unforgettable stay in Dresden.

In this sense,

Heinz Reichmann, MD, PhD
Professor of Neurology
Dean, Faculty of Medicine

Technische Universität Dresden (TU Dresden)

Situated in the South-Eastern corner of Germany, in former Eastern Germany, Dresden is an old capital with enormous cultural background and one of the most vital German cities, leading in current birth rates.

TU Dresden sees itself as cosmopolitan university, which maintains many international contacts. You are an important part of it! We will do our best to make your stay a great experience!

In the booklet Welcome @ TU Dresden (http://tu-dresden.de/internationales/kultur/finish_inhalt.pdf) you will find important information on studying and living in Dresden. The brochure in hand is intended to provide you with additional details for your part-time studies at Faculty of Medicine at TU Dresden.
At first sight, it may appear unusual that a University of Science and Engineering (Technische Universität) has a large Medical Faculty, but this is not that uncommon in Germany. Our Medical Faculty is one of the youngest in Germany. In 1993, two venerable institutions were linked, and the Medical Faculty was founded within the TU Dresden. This young faculty has since grown steadily in the sciences, and has maintained a strong focus on education. We are very happy to welcome you here.

We maintain many partnership and exchange programmes to further develop an internationally recognised curriculum and facilitate the mutual acknowledgement of study achievements. We take part in the ERASMUS student exchange programme with 33 partnering universities throughout Europe:

**Our Partners within the ERASMUS programme (Medicine):**

**Austria**
Medical University of Innsbruck; Medical University of Vienna

**Bulgaria**
Trakia University, Stara Zagora; Medical University "Prof. Dr. Paraskev Stoyanov", Varna

**Croatia**
University of Zagreb

**Czech Republic**
Charles University of Prague; Masaryk University Brno

**France**
Université de Paris-Sud 11; Université de Paris Diderot / Paris 7; Université de Rennes 1, Université de Strasbourg 1; Université de Bordeaux Ségalen

**Hungary**
University of Debrecen; Szegedi Tudományegyetem

**Italia**
Università de Pisa

**Latvia**
Rigas Stradina Universitate

**Poland**
Poznan University of Medical Sciences; Akademia Medyczna we Wroclawiu, Wroclaw

**Romania**
Transilvania University of Brasov; Universitatea Titu Maiorescu Bukarest

**Spain**
Universidad Autónoma de Madrid; Universidad de Murcia; Universidad de Cantabria, Santander; Universidad de Sevilla; Universitat de València

**Switzerland**
University of Bern; University of Zurich
Our Partners within the ERASMUS programme (Dentistry):

Belgium
Universiteit Gent 2; Katholieke Universiteit Leuven 2

Latvia
Rigas Stradina Universitate

Norway
University of Oslo 2

Scotland/UK
University of Dundee 1

Poland
Akademia Medyczna we Wroclawiu, Wroclaw

Our Partners worldwide:

We also cooperate among others with Universities in Sydney, Australia; in Huazhong and Wuhan, China; in Santa Domingo, Dominican Republic; in Mexico, Mexico; in Patan, Nepal; in Novosibirsk, Russia; in Naresuan and Burapha, Thailand; in Durham, North Carolina/USA; in Illinois, Chicago/USA; in Louisville, Kentucky/USA and in Alberta, Edmonton/Canada (Dentistry).

Our study programmes:

Together with the Harvard Medical School (Boston/USA), a practice-oriented study system (DIPOL®) has been introduced for all six years of Medical School. The innovative aspect of this model is the switch to interdisciplinary block courses. In joint classes, lecturers from various medical disciplines, and even other faculties, illuminate the medical facts from different angles. The overall teaching concept integrates ethics, evidence-based medicine, health economics, and quality management. A further feature of this approach is the application of acquired knowledge to real cases under the supervision of a tutor. Through the practical elements incorporated into the course, the students come into contact with patients from an early stage on. In the skills lab, basic medical skills are trained in small groups, serving to further promote the practical orientation of the training.
The curriculum of dentistry similarly is the first of its kind in Germany to add problem-oriented learning and block courses to strengthen its interdisciplinary character and to enhance the practical availability of basic medical knowledge.

The faculty has also established a MD-programme, which is aimed at assisting doctoral fellows in both Medicine and Dentistry in the acquisition of methodologies of scientific working.

The range of study programmes is rounded off by two Master degree courses in „Health Sciences – Public Health” and in „Medical Radiation Sciences”.
Contacts

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International Office / ERASMUS
Tel.: +49 351 458-2967
Fax: +49 351 458-5855
stdaa@mailbox.tu-dresden.de

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Martin.Aringer@uniklinikum-dresden.de

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Michael.Walter@uniklinikum-dresden.de

Prof. Dr. Peter Dieter
Medical School Representative for International Relations (Non-EU)
Peter.Dieter@tu-dresden.de

Studiendekanat
Medizinische Fakultät
TU Dresden
Fetscherstr. 74
01307 Dresden
Germany

Medizinische Klinik III
Universitätsklinikum
Carl Gustav Carus
Fetscherstr. 74
01307 Dresden
Germany

Institut für Physiol. Chemie
Medizinische Fakultät
TU Dresden
Fetscherstr. 74
01307 Dresden
Germany
Student exchange for non degree students (ERASMUS and others)

The Faculty of Medicine at TU Dresden maintains relationships for student exchange to numerous universities throughout Europe (ERASMUS) and also worldwide. Courses you would like to attend will be fixed in the learning agreement which has to be signed by the student, the sending and the receiving university. All students of TU Dresden, including exchange students, are required to pay the semester fee of currently about 220 €. This is not a fee of the university, but goes to the students’ union, the students’ organization and also includes the so called semester ticket; which is the transportation pass for busses, trains and trams in and around the greater Dresden area and for some trains throughout Saxony.

Application Procedure
For your application please register yourself online first.*

Application documents to turn in:
Signed print out of application form of the online application*
Learning Agreement* with detailed information about your study project at the TU Dresden approved by your home institution
Transcript of Records* or proof of previous studies at the home institution
Certificate/Proof of German skills (intermediate level B2 strongly recommended)
Immunization Verification Form*

* Documents and links can be found on our website http://tu-dresden.de/die_tu_dresden/fakultaeten/medizinische_fakultaet/studium/internationales/incoming

Application deadlines:
summer term (1 April – 30 September): until 15 January
winter term (1 October – 31 March): until 15 July

Please send your complete application to:
Technische Universität Dresden
Medizinische Fakultät Carl Gustav Carus / Studiendekanat
Frau Veronika Satlow
Fetscherstr. 74
01307 Dresden
Germany
### 1. Preclinical part (1st and 2nd year of study)

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<thead>
<tr>
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<th>Subject</th>
<th>ECTS</th>
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<td>Course Medical Psychology and Sociology</td>
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<td>Seminar Medical Psychology and Sociology</td>
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<td>Introduction to fields in medicine (Berufsfelderkundung)</td>
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<td>2</td>
<td>Introduction to Clinical Medicine</td>
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<td>Seminar Biochemistry/Molecular Biology</td>
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Total of ECTS preclinical part: 120
### 2. Clinical part (3rd to 5th year of study) - Medicine

#### 3rd year

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<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
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| 5        | DIPOL Course Pathomechanisms | Pathology (LN 13)  
Clinical Chemistry, Laboratory Diagnostics (LN 16) | 4,5  
4,5 | 9,0 |
| 5        | DIPOL Course Pharmacology / Toxicology | Pharmacology, Toxicology (LN 17) | 4,5 | 8,0 |
| 5        | Forensic Medicine |  |  | 2,0 |
| 5        | Clinical Examination Course- Internal Medicine |  |  | 1,5 |
| 5        | Clinical Examination Course- Neurology |  |  | 0,5 |
| 5 + 6    | History, Theory and Ethics in Medicine |  |  | 3,0 |
| 6        | Medical Imaging, Radiotherapy, Radiation Protection - Nuclear Medicine |  |  | 3,0 |
| 6        | Epidemiology, Med. Biometry, Med. Information Technology (LN QB 01) |  |  | 4,0 |
| 6        | Health Economics, Health System, Public Health (LN QB 03) |  |  | 1,0 |
| 6        | DIPOL Course Infectious Diseases | Hygiene, Microbiology, Virology (LN 10)  
Infectiology, Immunology (LN QB 04) | 4,5  
4,5 | 9,0 |
| 6        | DIPOL Course Emergency Medicine | Emergency Medicine (LN QB 08) |  | 4,5 |

#### 4th year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
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</thead>
</table>
| 7        | DIPOL Course Heart – Circulation – Lung | Surgery: Cardiac Surgery, Thoracic Surgery,  
Vascular Surgery (LN 05)  
Internal Medicine: Cardiology, Angiology,  
Pneumology (LN 11)  
QB Clinical Pathological Conference (LN QB 05) | 2,5  
6,5  
1,0 | 10,0 |
| 7        | DIPOL Course Skin – Muscle – Joints and Internship Dermatology | Dermatology, Venerology (LN 06)  
Internal Medicine: Rheumatology (LN 11)  
Orthopaedics (LN 15) | 3,0  
2,0  
2,0 | 7,0 |
| 7        | Rehabilitation, Physical Medicine, Treatment in Natural Medicine |  |  | 1,0 |
| 7 + 8    | General Medicine |  |  | 3,0 |
| 7 + 8    | Paediatrics |  |  | 5,0 |
| 7 + 8    | Human Genetics |  |  | 3,0 |
| 7 + 8    | Internship Internal Medicine |  |  | 2,0 |
| 8        | DIPOL Course Nutrition–Metabolism–Digestion / Oncology | Surgery: Visceral Surgery (LN 05)  
Internal Medicine: Metabolism, Endocrinology,  
Nephrology, Gastroenterology (LN 11)  
Urology (LN 21)  
Epidemiology, Med. Biometry and Med. Information Technology (LN QB 01)  
QB Clinical Pathological Conference (LN QB 05)  
Internal Medicine: Haematology, Oncology (LN 11)  
Gynecology (LN 07) | 2,0  
3,0  
2,0  
2,0  
0,5  
1,5 | 11,0 |
<p>| 8        | Surgery | Paediatric Surgery (LN 05) |  | 3,0 |
| 8        | Palliative Care |  |  | 3,0 |</p>
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<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
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<tbody>
<tr>
<td>9</td>
<td>DIPOL® Course Emergency Medical Aid, Injuries, Intensive Care</td>
<td>Anaesthesiology (LN 02) Surgery: Trauma Surgery (LN 05)</td>
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<td>Surgery: Neuro Surgery, Oral and Maxillofacial Surgery (LN 05) Ophtalmology (LN 04) ENT (LN 08)</td>
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<td>9</td>
<td>Psychiatry (Lectures and Seminar)</td>
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<td>9</td>
<td>Psychosomatics (Lectures and Seminar)</td>
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<td>Neurology</td>
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<tr>
<td>9</td>
<td>DIPOL® Course Prevention</td>
<td>Occupational medicine, Social medicine (LN 03) Prevention, Health promotion (LN QB 13) Clinical environmental medicine (LN QB 06)</td>
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<td>Bedside Teaching Gynecology (1 week, full time)</td>
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<td>Bedside Teaching Ophtalmology (1 week, full time)</td>
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<td>Bedside Teaching ENT (1 week, full time)</td>
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<td>10</td>
<td>Bedside Teaching Neurology (1 week, full time)</td>
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<td>10</td>
<td>Bedside Teaching Orthopedics (1 week, full time)</td>
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<td>Bedside Teaching Urology (1 week, full time)</td>
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<td>Bedside Teaching Psychosomatics (1 week, full time)</td>
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Elective Course | 2,0 |
Practical Training Day | 6,0 |
4 Months Clinical Elective | 28,0 |

Total of ECTS in clinical part of study | 180
# Medicine – Courses and disciplines of clinical part (overview)

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<th>Code</th>
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<th>Semester 6</th>
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<tr>
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<tr>
<td>LN01</td>
<td>General Medicine</td>
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<td>LN02</td>
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Note: L = Lectures, Pr = Practice, Se = Seminars, LG = Laboratory Work, BT = Basic Training, Ex = Examination
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Clinical Examination Courses – Internal Medicine and Neurology

Semester (year): 5 (3)

Type of course: blended learning (e-learning course and practical exercise in small groups)

Content: anamnesis, locomotor system, nervous system I and II, cardiovascular system, respiratory system, neck, thyroid, gastrointestinal system

Degree/Exam*: for part of degree in Internal Medicine (LN11) and Neurology (LN14) oral/practical examination, 5th semester

Clinical Pharmacology

Semester (year): 10 (5)

Type of course: lecture

Content: pharmaceuticals, formulation, special populations, pregnancy and lactation, pharmacokinetics / genetics, psychotropic drugs, adverse drug reactions, immunopharmacology, coagulation / platelet aggregation, antibiotics, drug epidemiology, heart failure, EBM drug therapy, CHD / hypertension

Degree/Exam*: Clinical Pharmacology (LQ909) written examination, 10th semester

DIPOL® Course Emergency Medical Aid, Injuries, Intensive Care

Semester (year): 9 (5)

Type of course: lecture, practical exercise, tutorial, bedside teaching

Disciplines: Anaesthesiology, Intensive Care Medicine, Emergency Medicine, Surgery (Trauma Surgery)

Content: principles of general anaesthesia and regional anaesthesia, acute and chronic pain, pain diagnosis, methods of pain treatment, shock treatment, liquid and volume replacement therapy, treatment with blood products, principles of diagnosis and treatment of life-threatening diseases (trauma, sepsis, respiratory failure, acute haemorrhage, CNS injury), basics of intensive care (mechanical ventilation, drug therapy, artificial nutrition, artificial organs), monitoring, aspects of intensive medical care, life-threatening disorders of the respiratory system, the cardiovascular system, CNS, including comas and other special emergency situations, trauma genesis, pathophysiology of various injuries, fracture theory, treatment of bone, joint and soft tissue injuries, reconstruction of limbs, amputation, rehabilitation

Degree/Exam*: Anaesthesiology (LN02) and part of degree in Surgery (LN 05), Trauma Surgery, written and oral examination, 9th semester
**DIPOL® Course Emergency Medicine**

**Semester (year):** 6 (3)

**Type of course:** lecture, practical exercise, tutorial, hospitation in operating theatre

**Disciplines:** Emergency Medicine, Surgery (Trauma Surgery), Radiology

**Content:** emergency medicine (as amended): control, monitoring and recovery of vital functions, cardiovascular resuscitation, recovery, bedding, retrieval and transportation of injured persons, diagnosis and treatment of acute disorders of the respiratory system, of cardiovascular system, of awareness, of acute metabolic disorders, treatment of acute pain and acute pain syndromes, special emergency

**Degree/Exam*:** Emergency Medicine (LQ08) oral examination (mini-case), 6th semester

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**DIPOL® Course Head**

**Semester (year):** 9 (5)

**Type of course:** lecture, large group seminar, tutorials

**Disciplines:** Ophthalmology, Ear-Nose-Throat, Oral and Maxillofacial surgery, Neurosurgery

**Content:** diagnosis and treatment of disorder of cranium, neck, eyes, ears, nose, sinuses, teeth, mouth or other facial or cranial structures

**Degree/Exam*:** Ophthalmology (LN04), ENT (LN08) and parts of degree in Surgery (LN05), Neurosurgery and Oral-Maxillofacial Surgery, written examination, 9th semester

Ophthalmology (LN04) and ENT (LN08) oral examinations, 10th semester

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**DIPOL® Course Heart, Circulation, Lung**

**Semester (year):** 7 (4)

**Type of course:** lecture, tutorial, multistation seminar, bedside teaching

**Disciplines:** Internal Medicine (Cardiology, Pneumology, Angiology), Surgery (Cardiac Surgery, Thorax Surgery, Vascular Surgery), Radiology, Clinical Pathology

**Content:** lectures in: Cardiology, Pneumology, Angiology, Cardiac Surgery, Thorax Surgery, Vascular Surgery, interdisciplinary lectures in: Angiology, Vascular Surgery, interventional Radiology, Radiology, lectures in Clinical Pathological Conference according to above-mentioned organ systems

seminars and courses: ECG seminar/course, auscultation seminar/course, non-invasive angiological diagnostic and vascular ultrasound, pulmonary function course

**Degree/Exam*:** Internal Medicine (LN11) oral and written examination, 7th semester

part of degrees in Surgery (LN05) and Clinical Pathological Conference (LQ05) written examination, 8th semester (JAP 4)**
**DIPOL® Course Infectious Diseases**

**Semester (year):** 6 (3)

**Type of course:** lecture, practical exercise, seminar, large group seminar, tutorial

**Disciplines:** Immunology, Microbiology / Hygiene, Virology, Pathology, Pharmacology / Toxicology

**Content:** general microbial infection, general bacteriology, diagnosis of infectious diseases, normal resident flora, special bacteriology, mycology, parasitology, fundamentals of antimicrobial, antifungal therapy, antiprotozoals, and anthelmintics, immunoprophylaxis, clinical infectious diseases after organ specific areas, hospital hygiene, environmental hygiene, food and water hygiene, infection control law, general virology, special virology, antivirals, principles of normal and pathological immune functions, immune defense, pathology of inflammatory response, malignant lymphomata, pathology of HIV infection

**Degree/Exam*:** Hygiene, Microbiology, Virology (LN10) oral examination, 6th semester Infectiology, Immunology (LQ04) practical and written examination, 6th semester

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**DIPOL® Course Nutrition, Metabolism, Digestion**

**Semester (year):** 8 (4)

**Type of course:** lecture, practical exercise, large group seminar, tutorial, bedside teaching

**Disciplines:** Internal Medicine (Gastroenterology, Nephrology, Endocrinology), Surgery (General and Visceral Surgery), Urology, Human Genetics, Radiology

**Content:** interdisciplinary teaching of diseases of the respective organs and their malfunctions, interdisciplinary treatment of chronic diseases, presentation of important cross-correlations, genetics of complex diseases in the theme of nutrition, metabolism, digestion, hereditary kidney disease

**Degree/Exam*:** parts of degree in Internal Medicine (LN11), Gastroenterology, Nephrology, Endocrinology; parts of degree in Surgery (LN05), General and Visceral Surgery; Human Genetics (LN09) and Clinical Pathological Conference (LQ05) written examination, 8th semester (JAP 4)**
**DIPOL® Course Oncology**

Semester (year): 8 (4)

**Type of course:** lecture, practical exercise, large group seminar, tutorial, bedside teaching

**Disciplines:** Internal Medicine (Haematology, Oncology), Surgery (Visceral Surgery), Radiotherapy, Urology, Human Genetics, Diagnostic Radiology, Gynaecology, ENT, Orthopaedics, Dermatology, Psychology in Oncology, Palliative Care, Pain Therapy

**Content:** etiology, pathogenesis, diagnosis and therapeutic principles of malignant diseases, aftercare, communication skills, palliative care, quality of life of patients with malignant diseases

**Degree/Exam**: parts of degree in Internal Medicine (LN11), Haematology, Oncology; parts of degree in Surgery (LN05), Visceral Surgery; degrees in Human Genetics (LN09) and Clinical Pathological Conference (LQ05) written examination, 8th semester (JAP 4)**

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**DIPOL® Course Pathomechanisms**

Semester (year): 5 (3)

**Type of course:** lecture, practical exercise, seminar, large group seminar, tutorial, bedside teaching

**Disciplines:** Pathology, Pathobiochemistry, Pathophysiology, Clinical Chemistry / Laboratory Diagnostics

**Content:** principle of cause and effect, relation of structure and function, the clinical picture as model, parameter of defective structure and / or function

**Degree/Exam**: General Pathology (LN16) and Clinical Chemistry/Laboratory Diagnostics (LN13) (Part I written and Part II oral examination), 5th semester

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**DIPOL® Course Pharmacology / Toxicology**

Semester (year): 5 (3)

**Type of course:** lecture, practical exercise, seminar, tutorial

**Disciplines:** General Pharmacology / Toxicology

**Content:** general principles of pharmacodynamics and pharmacokinetics, drugs acting at synaptic and neuroeffector junctional sites, drugs affecting renal and cardiovascular function, drugs acting on the blood and blood forming organs, drugs affecting gastrointestinal function, autacoids, drug therapy or inflammation, opioid analgesics, drug abuse, hormones and hormone antagonists, drugs acting on the central nervous system, general and local anaesthetics, drugs and the treatment of neurological and CNS disorders, toxicology (heavy metal and heavy metal antagonists, toxicology of air, pollutants, pesticides, solvents and vapours, naturally occurring toxins), chemotherapy of microbial and neoplastic diseases and of parasitic infections

**Degree/Exam**: General Pharmacology/Toxicology (LN17) written examination, 5th semester
DIPOL® Course Prevention

Semester (year): 9 and 10 (5)

Type of course: lecture, tutorial (9th semester), bedside teaching (10th semester)

Disciplines: Occupational Medicine, Social Medicine; Prevention, Health Promotion; Clinical Environmental Medicine

Content: psychosomatic medicine and the environment, biomonitoring in occupational and environmental medicine, natural born killers - the environment as a source of infection, epidemiological principles of preventive medicine, diseases in preventive medicine, evidence based preventive medicine, effects of noise and noise prevention, disease and health concepts, socio-economic influences on health and health care, prevention of allergic diseases, prevention of mental disorders, health-damaging and health-promoting behaviour in the mirror of health reporting

Degree/Exam*: Occupational Medicine, Social Medicine (LN03), Prevention, Health Promotion (LQ10) and Clinical Environmental Medicine (LQ06) written examination, 9th semester and oral presentation, 10th semester

DIPOL® Course Skin, Muscle, Joints

Semester (year): 7 (4)

Type of course: lecture, practical exercise, seminar, tutorial, bedside teaching

Disciplines: Dermatology, Venerology, Internal Medicine (Rheumatology), Orthopaedics, Clinical Pathology, Radiology, Human Genetics, Nuclear Medicine

Content: theoretical approach to diseases of the skin, sexual transmitted and autoimmune diseases and diseases of the locomotor system: efflorescences, allergology, neurodermatitis, urticaria, exantheme, autoimmune diseases, collagen diseases, psoriasis and inflammatory dermatoses, acne and rosacea, venerologie and STD, HIV / AIDS, paediatric dermatology, genodermatoses, benign and malignant skin tumor, paraneplasien, age-and light-related skin lesions, diseases of the skin appendages, phlebology and ulcer cruris venosum, wound healing, proctology, andrology, important rheumatological diseases, principles and choice of immunosuppressive therapy, the importance of interdisciplinary collaboration, investigation techniques of the upper and lower extremities, spine, diseases of the shoulder joints and knee joints, degenerative joint diseases and joint replacement, paediatric orthopaedics, congenital and acquired foot deformities, spinal diseases, rheumatoid arthritis, inflammatory diseases of the joints and bones, sports medicine, tumor of locomotor system, orthopaedic emergencies; bedside teaching in Dermatology

Degree/Exam*: Dermatology (LN06), part of degree in Orthopaedics (LN15), written examination, 7th semester
part of degree in Internal Medicine (LN11), Rheumatology, written examination, 8th semester (JAP 4)**
Ear-Nose-Throat

Theory: within DIPOL® course Head

Practice:

Semester (year): 10 (5)
Type of course: bedside teaching
Content: 1 week, full time
Degree/Exam*: Ear-Nose-Throat (LN08) oral examination

Epidemiology, Medical Biometry, Medical Informatics

Semester (year): 6 (3)
Type of course: lecture, tutorial
Content: epidemiological principles, clinical epidemiology, evidence-based medicine, meta-analyzes, types of studies, planning of clinical studies, description of empirical observations, estimating outcomes, planning and evaluation of treatment comparisons, medical classification systems (ICD, DRG), information systems in health care, quality management, hospital and practice management, disease management programs, basic medical guidelines, health systems, integrated care, economic analysis of health systems and services
Degree/Exam*: Biometrics, Medical Informatics and Epidemiology (LQ01), written examination, 6th semester

Forensic Medicine

Semester (year): 5 (3)
Type of course: lecture, practical exercise
Content: toxicology, analysis, thanatology, kinds of death, forensic medicine, medical ethics
Degree/Exam*: Forensic Medicine (LN20) written examination, 5th semester
**General Medicine**

**Theory:**

**Semester (year):** 7 and 8 (4)

**Type of course:** seminar

**Content:** introduction, frequent consulting occasions; psychosomatics in general practice; multimorbidity and chronic diseases; life care and palliative care, immunization, prevention, home visits, emergencies

**Degree/Exam**: General Medicine, Theory (LN01) written examination, 8th semester

**Practice:**

**Semester (year):** 10 (5)

**Type of course:** bedside teaching

**Duration:** 1 week, full time

**Degree/Exam**: General Medicine, Practice (LN BP01) OSCE*** and observation during shadowing in a private practice (outpatients setting), 10th semester

**Geriatric medicine**

**Semester (year):** 10 (5)

**Type of course:** lecture, seminar

**Content:** principles of pharmacotherapy for older people, angiological problems in old age, tumor diseases in old age, urological problems in old age, metabolic diseases, movement disorders - neurological gait disorder in old age, socialmedical aspects and physical therapy for older people, geriatric psychiatry 1 (delirium and dementia), geriatric psychiatry 2 (depression), osteoarthritis, hip and knee complaints, degenerative changes in old age (spine), dental care in old age, orthostatic hypotension and other disorders in old age, surgery in old age

**Degree/Exam**: Geriatric medicine (LQ07) written examination, 10th semester
Gynaecology

Theory:

Semester (year): 9 (5)

Type of course: lecture

Content: endocrinology of the menstrual cycle, menstrual disorders, child and adolescent gynaecology, menopause, contraception, sterility and infertility, physiology of pregnancy, prenatal care, diseases during pregnancy, prenatal diagnosis, multiple pregnancy, prematurity, regular and irregular birth, infections of the genital, benign genital diseases, cervical cancer, endometrial cancer, ovarian cancer, breast cancer, mastitis, changes of position of the female genitals, urogynaecology

Degree/Exam*: Gynaecology, Theory (LN07) written examination, 9th semester

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: 1 week, full time

Degree/Exam*: Gynaecology, Practice (LN BP03) daily observation during shadowing on gynaecologic wards and in the gynaecologic outpatients

Health Economics, Health System, Public Health (LN QB 03)

Semester (year): 6 (3)

Type of course: lecture, tutorial

Content: quality management, hospital and practice management, disease management programs, basic medical guidelines, health systems, integrated care, economic analysis of health systems and services

Degree/Exam*: Health Care Systems, Health Economics and Public Health (LQ03) written examination, 6th semester
History, Theory and Ethics in Medicine

Semester (year): 5 and 6 (3)

Type of course: lecture, seminar

Content: the patient in his / her individual and social situation, illness and society, change of conceptions on health and illness over the centuries, status of medical profession, medical institutions, ethical aspects of medical diagnosis and treatment, reasoning and knowledge of physicians, events and people with significant relevance to the evolution of medicine, naturopathy in the 19th and 20th century

Degree/Exam*: History, Theory and Ethics in Medicine (LQ02) written examination, 6th semester

Human Genetics

Semester (year): 7 and 8 (4)

Type of course: lecture, practical exercise, seminar, large group seminar, tutorial

Content: diagnosis of dysmorphology and syndromes, syndromes with micro-and macrocephaly, syndromes with large and small stature, prenatal diagnosis, intersex, from phenotype to mutation for beginners and for advanced, genetics and ethics, craniofacial dysmorphism (Content concerning Inherited Diseases are paralleled with content of DIPOL® Course Skin, Muscle, Joints, DIPOL® Course Nutrition, Metabolism, Digestion and Oncology and with lectures in Paediatrics)

Degree/Exam*: Human Genetics (LN09) written examination, 8th semester (JAP 4)**

Internal Medicine

Theory: within DIPOL® courses Heart, Circulation, Lung; Skin, Muscle, Joints; Nutrition, Metabolism, Digestion; Oncology

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: 1 week, full time

Degree/Exam*: Internal Medicine, Practice (LN BP05) OSCE***
Medical Imaging, Radiotherapy, Radiation Protection – Nuclear Medicine

Semester (year): 6 (3)

Type of course: lecture, seminar

Content: basic radiology, respiratory system, cardiovascular system, skeletal system and soft tissues, gastrointestinal tract, genitourinary system, CNS and skull, CT, NMR, nuclear diagnostics and therapy, radiation protection, basic physics of ionizing radiation and radioactivity, dosimetry, biological effects of radiation, legal aspects of nuclear medicine

Degree/Exam*: Medical Imaging, Radiotherapy, Radiation Protection – Nuclear Medicine (LQ11) written examination, 6th semester

Neurology

Theory:

Semester (year): 9 (5)

Type of course: lecture

Content: pathology of cranial nerves, neuranatomy, pathology of infections, immune diseases, extrapyramidal disorders, dementia, cranial tumors, stroke, headache, dizziness and vertigo, neuromuscular diseases, multiple sclerosis, epilepsy, neuroophthalmology, intensive care medicine, brain death, psychosomatic neurology

Degree/ Exam*: Neurology (LN14) written examination, 9th semester

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: 1 week, full time

Degree/ Exam*: Neurology (LN14) oral examination, 10th semester

Ophthalmology

Theory: within DIPOL® course Head

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: 1 week, full time

Degree/Exam*: Ophthalmology (LN04) oral examination
Paediatrics

Theory:

Semester (year): 7 and 8 (4)

Type of course: lecture

Content: paediatric traumatology, head and neck, thorax, diaphragm, lungs, abdominal wall, urogenital, coccygeal teratoma, abdomen, ileus, atresia, neonatology, developmental neurology, rheumatology, clotting disorders, endocrinology, nutrition in childhood, gastroenterology, paediatric cardiology, haematology, oncology, respiratory emergencies, pneumology, infectious diseases

Degree/Exam*: Paediatrics, Theory (LN12) written examination, 8th semester (JAP 4)**

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: paediatric traumatology, head and neck, thorax, diaphragm, lungs, abdominal wall, urogenital, coccygeal teratoma, abdomen, ileus, atresia, neonatology, developmental neurology, rheumatology, clotting disorders, endocrinology, nutrition in childhood, gastroenterology, paediatric cardiology, haematology, oncology, respiratory emergencies, pneumology, infectious diseases

Degree/Exam*: Paediatrics, Practice (LN BP03) daily observation during shadowing on paediatric wards and in paediatric outpatients

Paediatric Surgery

Semester (year): 8 (4)

Type of course: lecture

Content: paediatric diseases of the head and back region, congenital malformations of the chest and the lungs, diseases of the anterior abdominal wall and the diaphragm, diseases of the abdomen, outpatient paediatric surgery, paediatric traumatology, paediatric urology

Degree/Exam*: part of degree in Surgery (LN05), Paediatric Surgery, written examination, 8th semester (JAP 4)**
Palliative Care

Semester (year): 8 (4)

Type of course: lecture, practical exercise, seminar, large group seminar, bedside teaching

Content: care in end-of-life situations (oncology, paediatrics, geriatrics, neurology): effective pain management, relief of symptoms, professional psychosocial and spiritual support, ethics in end of life situations

Degree/Exam*: Palliative Care (LQ13) written examination, 8th semester (JAP 4)**

Psychiatry

Theory:

Semester (year): 9 (5)

Type of course: lecture, seminar

Content: structure and documentation of psychiatric examinations, psychological findings, normal findings, perceptual disturbances / hallucinations, disturbances of the self-experience, thought disorder, formal thought and language disorders, behavioural disorders, disorder in motor and psychomotor performance, constraints, affectivity, disorders of attention and memory; disorders in the awareness and orientation

Degree/Exam*: Psychiatry (LN18) written examination, 9th semester

Practice:

Semester (year): 10 (5)

Type of course: bedside teaching

Content: 1 week, full time

Degree/Exam*: Psychiatry (LN18) oral examination, 10th semester

Psychosomatics

Theory:

Semester (year); 9 (5)

Type of course: lecture, seminar

Content: definition and explanation of the dimensions of psychosomatic medicine, spectrum of disease / epidemiology, scientific basics, disease concepts, stress, conversion, theoretical concepts of learning, differentiation from other psychological subjects

Degree/Exam*: Psychosomatics (LN19) written examination, 9th semester
Practice:

Semester (year): 10 (5)
Type of course: bedside teaching
Content: 1 week, full time
Degree/Exam*: Psychosomatics (LN19) oral examination, 10th semester

Rehabilitation, Physical Medicine, Treatment in Natural Medicine

Semester (year): 7 (4)
Type of course: lecture
Content: complementary and alternative medicine methods, classical naturopathy 1: principle (stimulus - response - regulation), possibilities and limitations, important individual processes, classical naturopathy 2: complex naturopathic approaches, medicine in health resort, physiotherapy, rehabilitation in the musculoskeletal area, internist cardiac rehabilitation, phytopharmaca
Degree/Exam*: Rehabilitation, Physical Medicine, Treatment in Natural Medicine (LQ12) written examination, 7th semester

Surgery

Theory: within DIPOL® courses Heart, Circulation, Lung; Skin, Muscle, Joints; Nutrition, Metabolism, Digestion, Paediatric Surgery in 8th semester

Practice:

Semester (year): 10 (5)
Type of course: bedside teaching
Content: 2 weeks, full time
Degree/Exam*: Surgery, Practice (LN BP02) OSCE***

* according to current state at time of printing, August 2012
** JAP 4 (Jahresabschlussprüfung 4. Jahr): multi-disciplinary written examination about 4th year disciplines
*** OSCE: objective structured clinical examination: final exam for practical degree in Internal Medicine, Surgery and General Medicine
Medicine – Final year clinical practice (Praktisches Jahr, PJ) / Clerkship

In Germany medical students spend their last year of medical school in hospitals to be introduced into clinical practice. This year of practice consists of three parts: internal medicine, surgery and a third special subject to be chosen by the student – each part lasting 16 weeks.

If you would like to perform a practical training period in your final year at our university hospital and this also represents an integral part of your studies, then we would be happy to welcoming you.

Please apply as part-time student (see page 7), as you will be registered at our faculty.

Please check:

- You intend to stay for a practical training for at least 3 months - preferably in your final year as we expect a good theoretical background in the chosen field of placement/attendance
- Your home university is one of our partnering universities.
- As registered student you are required to pay the semester fee of currently about 220 € per semester This is not a fee of the university, but goes to the students’ union, the students’ organization and also includes the so called semester ticket; which is the transportation pass for busses, trains and trams in and around the greater Dresden area and for some trains throughout Saxony.
- If you stay less than six months this fee may partly be refunded.
- Please note: our summer half term lasts from 1 April to 30 September, the winter half term from 1 October to 31 March. Please make sure that your placement period corresponds to these dates, otherwise you will be charged for two semesters.
# Dentistry – Curriculum

## 1. preclinical part (1st to 5th term)

<table>
<thead>
<tr>
<th>1st year of study</th>
<th>winter term</th>
<th>summer term</th>
<th>Technical propaedeutics (2 weeks)</th>
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<tr>
<td>Medical terminology</td>
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<tr>
<td>Chemistry (lecture and practical exercise)</td>
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<tr>
<td>Dental materials science I</td>
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<tr>
<td>Introduction into dentistry</td>
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<td>General Anatomy - lectures</td>
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<td>Physics (lectures and seminars)</td>
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<td>Anatomy - Organ systems - lectures and courses</td>
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<td>Biology (lecture)</td>
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<td>Technical propaedeutics</td>
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<th>2nd year of study</th>
<th>winter term</th>
<th>summer term</th>
<th>Dental materials science - practical exercise</th>
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<td>Dental materials science II</td>
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<td>Anatomy - Neuro anatomy</td>
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<td>Prosthodontics - phantom course I</td>
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<td>Physiology - lecture, practical exercise, seminar</td>
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<td>Biochemistry - lecture, practical exercise, seminar</td>
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<td>Technical propaedeutics</td>
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<tr>
<th>3rd year of study</th>
<th>Wintersemester</th>
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<th>Hygiene - lecture, practical exercise</th>
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<tbody>
<tr>
<td>Prosthodontics - phantom course II</td>
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<tr>
<td>Diagnostic anatomy for dentists</td>
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<td>Technical propaedeutics</td>
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### Courses
- **Physiology**
- **Biochemistry**
- **Dental materials science**
- **Biology**
- **Chemistry**
- **Anatomy**
- **Medical terminology**
- **Technical propaedeutics**
- **Practical exercise**
- **Physics**
- **Prosthodontics**
- **Introduction into dentistry**
- **General Anatomy - lectures**
- **Medical terminology**
- **Chemistry (lecture and practical exercise)**
- **Dental materials science I**
- **Introduction into dentistry**
- **General Anatomy - lectures**
- **Physics (lectures and seminars)**
- **Biology (lecture)**
- **Technical propaedeutics**
- **Anatomy - Organ systems - lectures and courses**
- **Dental materials science II**
- **Anatomy - Neuro anatomy**
- **Prosthodontics - phantom course I**
- **Physiology - lecture, practical exercise, seminar**
- **Biochemistry - lecture, practical exercise, seminar**
- **Dental materials science - practical exercise**
- **Technical propaedeutics**
- **Hygiene - lecture, practical exercise**
- **Diagnostic anatomy for dentists**

### Schedule
- **Weeks 1-15**: Preclinical part (1st to 5th term)
2. clinical part (6th to 10th term) - Dentistry

<table>
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<tr>
<th>3rd year of study</th>
<th>Winter term</th>
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<tr>
<td>4th year of study</td>
<td>Winter term</td>
<td>Orthodontics - lecture I</td>
<td>Dental, oral and maxillofacial surgery - course I</td>
<td>Dental, oral and maxillofacial deseases - auscultando</td>
<td>Dental, oral and maxillofacial deseases - lecture II</td>
<td>Endodontics - Periodontics - course I</td>
<td>DIPOL course pathomechanism</td>
<td>Prosthodontics - lecture I</td>
<td>Endodontics - introduction into phantom course (lecture)</td>
<td>Endodontics - Periodontics - lecture</td>
<td>Endodontics - cariology and endodontics - lecture</td>
<td>Orthodontics - introduction - lecture</td>
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<td>5th year of study</td>
<td>Winter term</td>
<td>Prosthodontics - course I</td>
<td>Surgery</td>
<td>Hygiene - lecture</td>
<td>Radiology - course II</td>
<td>Clinical pharmacology - lecture and prescription course</td>
<td>ENT - lecture</td>
<td>History in medicine - lecture</td>
<td>Orthodontics - course II</td>
<td>Dental, oral and maxillofacial deseases - practical exercise</td>
<td>Special pathology - patho-histological course</td>
<td>Dermatology</td>
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<td>Summer term</td>
<td>DIPOL course Emergency medicine</td>
<td>DIPOL course Infectiology</td>
<td>Dental, oral and maxillofacial deseases - lecture I</td>
<td>Radiology - lecture and course I</td>
<td>Internal medicine - lecture I</td>
<td>General Pharmacology</td>
<td>DIPOL course Emergency medicine</td>
<td>DIPOL course Infectiology</td>
<td>Prosthodontics - course I</td>
<td>Special pathology - patho-histological course</td>
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Specialization courses:
- Endodontics - phantom course
- DIPOL course Emergency medicine
- DIPOL course Infectiology
- DIPOL course Emergency medicine
- DIPOL course Infectiology
- Prosthodontics - course I
- Special pathology - patho-histological course
- Dermatology

Integrative courses and electives:
- Prosthodontics - lecture I
- Endodontics - Periodontics - lecture
- Endodontics - cariology and endodontics - lecture
- Orthodontics - introduction - lecture
- Dental, oral and maxillofacial deseases - lecture I
- Radiology - lecture and course I
- Internal medicine - lecture I
- General Pharmacology
- DIPOL course Emergency medicine
- DIPOL course Infectiology
- Endodontics - Periodontics - course I
- Prosthodontics - course I
- Special pathology - patho-histological course
- Dermatology

Schedule:
- Week 1: Orthodontics - lecture I, Dental, oral and maxillofacial surgery - course I
- Week 2: Dental, oral and maxillofacial deseases - auscultando
- Week 3: Dental, oral and maxillofacial deseases - lecture II
- Week 4: Endodontics - Periodontics - course I, DIPOL course pathomechanism
- Week 5: Prosthodontics - lecture I, Endodontics - introduction into phantom course (lecture)
- Week 6: Endodontics - Periodontics - lecture
- Week 7: Prosthodontics - course I
- Week 8: Endodontics - cariology and endodontics - lecture, Orthodontics - introduction - lecture
- Week 9: Endodontics - Periodontics - course I
- Week 10: Dental, oral and maxillofacial deseases - practical exercise, Special pathology - patho-histological course
- Week 11: General surgery - lecture I
- Week 12: DIPOL course Emergency medicine
- Week 13: DIPOL course Infectiology
- Week 14: Prosthodontics - course I, Special pathology - patho-histological course
- Week 15: Dermatology
German language skills

Teaching language at the Medical Faculty is German, it is thus necessary to have at least language knowledge of level B2 according to the Common European Framework of Reference for Languages.
Please turn in a proof of your German skills with your application documents.

Insurance and Immunization

**Health Insurance**
Please refer to information given in the brochure “Welcome @ TU Dresden”

**Statutory Accident Insurance**
Statutory accident insurance (covers accidents at work and on the way to/from work) will be covered by the Medical Faculty for registered students.

**Malpractice Insurance**
Malpractice insurance will be covered by the Medical Faculty for registered students as you are only allowed to work under surveillance of a fully registered doctor (Facharzt).

**Personal Liability Insurance**
We strongly advise you to take out personal liability insurance valid in Germany.

**Immunization**
An Immunization Verification Form must be completed and certified by a school health official. **This is required of all applicants. An incomplete Immunization Verification Form will result in no schedule.** Please download it from our website [http://tu-dresden.de/die_tu_dresden/fakultaeten/medizinische_fakultaet/studium/internationales/incoming](http://tu-dresden.de/die_tu_dresden/fakultaeten/medizinische_fakultaet/studium/internationales/incoming)