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 always presents a bit of adventure – experiencing 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 the most memorable experiences in your life.

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

In this sense,

[Signature]

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

Technische Universität Dresden (TU Dresden)

Situated in the southeastern corner of Germany, in former Eastern Germany, Dresden is an old capital with enormous cultural background and is 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/public/publikationen_ordner) 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 non-degree studies at Faculty of Medicine at TU Dresden.
Faculty of Medicine Carl Gustav Carus

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 to facilitate the mutual acknowledgement of study achievements. We take part in the ERASMUS+ student exchange programme with 35 partnering universities throughout Europe:

Our partners within the ERASMUS+ programme in Medicine:

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

**Belgium**
Katholieke Universiteit Leuven 2

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

**Croatia**
University of Zagreb

**Czech Republic**
1st and 3rd Medical Faculties at Charles University of Prague; Masaryk University Brno

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

**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

**Portugal**
Universidade de Lisboa

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

**Spain**
Universidad Autónoma de Madrid; Universidad de Granada; Universidad Jaume I, Castelló de la Plana; Universidad de Murcia; Universidad de Cantabria, Santander; Universitat de València

**Switzerland**
University of Bern; University of Zurich
Our partners within the ERASMUS+ programme in 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 with many others universities in Adelaide and Sydney, Australia; in Huazhong and Wuhan, China; in Santa Domingo, Dominican Republic; in Mexico, Mexico; in Patan, Nepal; in Naresuan and Burapha, Thailand; in Durham, North Carolina/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 transition 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 range of study programmes is rounded off by two Master degree courses in „Health Sciences – Public Health” and in „Medical Radiation Sciences”.
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Contacts

**Veronika Satlow**

International Office

Tel.: +49 351 458-2967  
Fax: +49 351 458-5855  
stdaaa@mailbox.tu-dresden.de

**Prof. Dr. Martin Aringer**

ERASMUS Coordinator Medicine

Martin.Aringer@uniklinikum-dresden.de

**Prof. Dr. Thomas Hoffmann**

ERASMUS Coordinator Dentistry

Thomas.Hoffmann@uniklinikum-dresden.de

**Prof. Dr. Peter Dieter**

Medical School Representative for International Relations (Non-EU)

Peter.Dieter@tu-dresden.de

Referat Lehre
Medizinische Fakultät
TU Dresden
Fetscherstr. 74
01307 Dresden
Germany

Referat Lehre
Medizinische Fakultät
TU Dresden
Fetscherstr. 74
01307 Dresden
Germany

Institut für Physiol. Chemie
Medizinische Fakultät
TU Dresden
Fetscherstr. 74
01307 Dresden
Germany

Wer noch? Frau Holzhauer, Frau Prof. Hübner? (Beachte: Guide ist für Studierendenaustausch)
Student exchange for non degree students (ERASMUS+ and others)

The Faculty of Medicine at TU Dresden maintains not only relationships for student exchange to numerous universities throughout Europe (ERASMUS+), but also to universities worldwide. Courses you would like to attend to will be indicated 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 250 €. 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 printed out 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/med/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 / Referat Lehre
Frau Veronika Satlow
Fetscherstr. 74
01307 Dresden
Germany
# 1. Preclinical part (1\textsuperscript{st} and 2\textsuperscript{nd} year of study)

<table>
<thead>
<tr>
<th>1\textsuperscript{st} year</th>
<th>Subject</th>
<th>ECTS</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>Internship Biology for Physicians</td>
<td>7,0</td>
</tr>
<tr>
<td>1</td>
<td>Internship Chemistry for Physicians</td>
<td>7,0</td>
</tr>
<tr>
<td>1</td>
<td>Internship Physics for Physicians</td>
<td>7,0</td>
</tr>
<tr>
<td>1</td>
<td>Internship Medical Terminology</td>
<td>1,0</td>
</tr>
<tr>
<td>1</td>
<td>Course Macroscopic Anatomy</td>
<td>5,0</td>
</tr>
<tr>
<td>1</td>
<td>Course Microscopic Anatomy</td>
<td>3,5</td>
</tr>
<tr>
<td>2</td>
<td>Course Medical Psychology and Sociology</td>
<td>3,5</td>
</tr>
<tr>
<td>2</td>
<td>Seminar Medical Psychology and Sociology</td>
<td>3,5</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to fields in medicine (Berufsfelderkundung)</td>
<td>1,5</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to Clinical Medicine</td>
<td>1,5</td>
</tr>
<tr>
<td>2</td>
<td>Course Macroscopic Anatomy</td>
<td>11,0</td>
</tr>
<tr>
<td>2</td>
<td>Course Microscopic Anatomy</td>
<td>5,5</td>
</tr>
<tr>
<td>2</td>
<td>Seminar Clinical Aspects (Anatomy)</td>
<td>1,5</td>
</tr>
<tr>
<td>2</td>
<td>Seminar Clinical Aspects (Chemistry)</td>
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<td>2</td>
<td>Seminar Clinical Aspects (Physics)</td>
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<tr>
<td>2</td>
<td>Integrative Seminar (Physics)</td>
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<table>
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<tr>
<th>2\textsuperscript{nd} year</th>
<th>Subject</th>
<th>ECTS</th>
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<tbody>
<tr>
<td>3</td>
<td>Seminar Anatomy (cerebric+neuro)</td>
<td>4,5</td>
</tr>
<tr>
<td>3</td>
<td>Seminar Physiology</td>
<td>5,5</td>
</tr>
<tr>
<td>3</td>
<td>Practical Exercises Physiology</td>
<td>3,0</td>
</tr>
<tr>
<td>3</td>
<td>Seminar Biochemistry/Molecular Biology</td>
<td>6,0</td>
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<tr>
<td>3</td>
<td>Practical Exercises Biochemistry/Molecular Biology</td>
<td>6,5</td>
</tr>
<tr>
<td>3</td>
<td>Seminar clinical aspects (biochemistry)</td>
<td>0,5</td>
</tr>
<tr>
<td>3</td>
<td>Seminar Clinical Aspects (Med. Psychology)</td>
<td>0,5</td>
</tr>
<tr>
<td>3</td>
<td>Seminar Clinical Aspects (Physiology)</td>
<td>1,0</td>
</tr>
<tr>
<td>3</td>
<td>Integrative Seminar (Biochemistry)</td>
<td>1,5</td>
</tr>
<tr>
<td>3</td>
<td>Integrative Seminar (Biology)</td>
<td>0,5</td>
</tr>
<tr>
<td>3</td>
<td>Integrative Seminar (Med. Psychology)</td>
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<td>3</td>
<td>Integrative Seminar (Physiology)</td>
<td>1,5</td>
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<tr>
<td>4</td>
<td>Seminar Physiology</td>
<td>5,5</td>
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<tr>
<td>4</td>
<td>Practical Exercises Physiology</td>
<td>6,5</td>
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<tr>
<td>4</td>
<td>Seminar Biochemistry/Molecular Biology</td>
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<tr>
<td>4</td>
<td>Practical Exercises Biochemistry/Molecular Biology</td>
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<td>Seminar Clinical Aspects (Physiology)</td>
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<td>4</td>
<td>Integrative Seminar (Anatomy)</td>
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<td>4</td>
<td>Integrative Seminar (Biochemistry)</td>
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<tr>
<td>4</td>
<td>Integrative Seminar (Physiology)</td>
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Total of ECTS preclinical part: 120
### 2. Clinical part (3rd to 5th year of study) - Medicine

<table>
<thead>
<tr>
<th>3rd year</th>
<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
</tr>
</thead>
</table>
| 5.       | 5.       | DIPOl Course Pathomechanisms | Pathology (LN 16)  
Clinical Chemistry, Laboratory Diagnostics (LN 13) | 7,0  
4,0 | 11,0 |
| 5.       | 5.       | DIPOl Course Pharmacology / Toxicology | Pharmacology, Toxicology (LN 17) | 7,0 |
| 5.       | 5.       | Forensic Medicine (LN 20) | 1,5 |
| 5.       | 5.       | Clinical Examination Course- Internal Medicine and Neurology (LN 11/14) | 2,0 |
| 5. u. 6. | 5. u. 6. | QB History, Theory and Ethics in Medicine (LQ 02) | 2,5 |
| 6.       | 6.       | QB Medical Imaging, Radiotherapy, Radiation Protection (LQ 11) | 2,0 |
| 6.       | 6.       | Health Economics, Health System, Public Health (LQ 03) | 1,0 |
| 6.       | 6.       | Epidemiology, Med. Biometry and Med. Information Technology (LQ 01) | 4,0 |
| 6.       | 6.       | DIPOl Course Infectious Diseases | Hygiene, Microbiology, Virology (LN 10)  
Infectiology, Immunology (LQ 04) | 6,0  
4,0 | 10,0 |
| 6.       | 6.       | DIPOl Course Emergency Medicine | Medical Emergencies (LQ 08)  
Surgery (LN 05) | 2,5  
2,0 | 4,5 |

<table>
<thead>
<tr>
<th>4th year</th>
<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
</tr>
</thead>
</table>
| 7.       | 7.       | DIPOl Course Heart – Circulation – Lung | Surgery: Cardiac Surgery, Surgery of Chest,  
Vascular Surgery (LN 05)  
Internal Medicine: Cardiology, Angiology,  
Pneumology (LN 11)  
QB Clinical Pathological Conference (LQ 05) | 1,0  
7,5  
1,0 | 9,5 |
| 7.       | 7.       | DIPOl Course Skin – Muscle – Joints and Internship Dermatology | Dermatology, Venerology (LN 06)  
Internal Medicine: Rheumatology (LN 11)  
Orthopedics (LN 15) | 4,0  
1,5  
2,0 | 7,5 |
| 7.       | 7.       | QB Rehabilitation, Physical Medicine, Treatment in Natural Medicine (LQ 12) | 1,0 |
| 7.+ 8.   | 7.+ 8.   | General Medicine (LN 01) | 1,0 |
| 7.+ 8.   | 7.+ 8.   | Human Genetics (LN 09) | 2,5 |
| 7.or 8.  | 7.or 8.  | Internship Internal Medicine (LN 11) | 1,5 |
| 8.       | 8.       | Paediatrics (LN 12) | 3,5 |
| 8.       | 8.       | DIPOl Course Nutrition–Metabolism–Digestion | Surgery: Visceral Surgery (LN 05)  
Internal Medicine: Metabolism, Endocrinology,  
Nephrology, Gastroenterology (LN 11)  
Urology (LN 21)  
QB Clinical Pathological Conference (LQ 05) | 2,5  
5,5  
1,0  
1,0 | 10,0 |
<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
<th>Disciplines</th>
<th>ECTS</th>
</tr>
</thead>
<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>
<td>6,0</td>
</tr>
<tr>
<td>9</td>
<td>DIPOL® Course Head</td>
<td>Surgery: Neuro Surgery, Oral and Maxillofacial Surgery (LN 05) Ophthalmology (LN 04) Otolaryngology (ENT) (LN 08)</td>
<td>4,5</td>
</tr>
<tr>
<td>9</td>
<td>Psychiatry and Psychotherapy (LN 18)</td>
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<td>2,5</td>
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<tr>
<td>9</td>
<td>Psychosomatics (LN 19)</td>
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<tr>
<td>9</td>
<td>Gynaecology (LN 07)</td>
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<tr>
<td>9</td>
<td>Neurology (LN 14)</td>
<td></td>
<td>2,0</td>
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<tr>
<td>9</td>
<td>Paediatrics (LN 12)</td>
<td></td>
<td>4,0</td>
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<tr>
<td>9</td>
<td>DIPOL® Course Prevention</td>
<td>Occupational medicine, Social medicine (LN 03) Prevention, Health promotion (LQ 13) Clinical environmental medicine (LQ 06)</td>
<td>4,5</td>
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<tr>
<td>10</td>
<td>Bedside Teaching General Medicine (1 week, full time)</td>
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<td>2,5</td>
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<tr>
<td>10</td>
<td>Bedside Teaching Surgery (2 weeks full time)</td>
<td></td>
<td>4,0</td>
</tr>
<tr>
<td>10</td>
<td>Bedside Teaching Gynecology (1 week, full time)</td>
<td></td>
<td>2,0</td>
</tr>
<tr>
<td>10</td>
<td>Bedside Teaching Paediatrics (1 week, full time)</td>
<td></td>
<td>2,0</td>
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<tr>
<td>10</td>
<td>Bedside Teaching Internal Medicine (1 week, full time)</td>
<td></td>
<td>2,0</td>
</tr>
<tr>
<td>10</td>
<td>Bedside Teaching Ophthalmology (1 week, full time)</td>
<td></td>
<td>1,5</td>
</tr>
<tr>
<td>10</td>
<td>Bedside Teaching ENT (1 week, full time)</td>
<td></td>
<td>1,5</td>
</tr>
<tr>
<td>10</td>
<td>Bedside Teaching Neurology (1 week, full time)</td>
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<td>1,5</td>
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<tr>
<td>10</td>
<td>Bedside Teaching Orthopedics (1 week, full time)</td>
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<td>10</td>
<td>Bedside Teaching Urology (1 week, full time)</td>
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<td>Bedside Teaching Psychiatry (1 week, full time)</td>
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<td>10</td>
<td>Bedside Teaching Psychosomatics (1 week, full time)</td>
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<td>1,5</td>
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<tr>
<td>10</td>
<td>Clinical Pharmacology</td>
<td></td>
<td>2,5</td>
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<tr>
<td>10</td>
<td>Geriatric Medicine</td>
<td></td>
<td>1,5</td>
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<tr>
<td></td>
<td>Elective Course</td>
<td></td>
<td>2,0</td>
</tr>
<tr>
<td></td>
<td>Practical Training Day</td>
<td></td>
<td>6,0</td>
</tr>
<tr>
<td></td>
<td>4 Months Clinical Elective</td>
<td>1 month corresponds to 7 credit points</td>
<td>28,0</td>
</tr>
</tbody>
</table>

**Total of ECTS in clinical part of study**: 180
**Clinical Examination Courses – Internal Medicine and Neurology**

Semester (year): 5 (3)

Type of course: blended learning (e-learning course and practical exercises 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) oral/practical examination, 5th semester

**Clinical Pathology**

Semester (year): 7 and 8 (4)

Type of course: lecture, large group seminar

Content: joints, bones: inflammation and osteopathy; soft tissue: inflammation; bone / soft tissue: tumors and tumor-like lesions; vasculopathy / vasculitis / venous vessels; myocardial infarction / myocarditis / cardiomyopathy; endocarditis / congenital and acquired valve disease; heart and vessels: neoplasia; lung: inflammation, neoplasia; upper GI tract: neoplasia, inflammation; liver, gallbladder, pancreas: neoplasia, inflammation, cirrhosis; endocrine: neoplasia, inflammation, hyperplasia; uropathologie: neoplasia, inflammation; nephropathology: inflammation, degenerative changes; prostate, testis: neoplasia; gynecological pathology: neoplasia

Degree/Exam*: Clinical Pathology (LQ05) written examination, 8th semester (JAP 4)**

**Clinical Pharmacology**

Semester (year): 10 (5)

Type of course: lecture, seminar

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 (LQ09) 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 (LN05), Trauma Surgery, written and oral examination, 9th semester

DIPOL® Course Emergency Medicine

Semester (year): 6 (3)

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

Disciplines: Emergency Medicine

Content: 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

DIPOL® Course Head

Semester (year): 9 (5)

Type of course: lecture, tutorial

Disciplines: Ophthalmology, Otolaryngology (ENT), 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 and Ophthalmology (LN04) and ENT (LN08) oral examination, 10th semester
**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)

**Content:** lectures in: Cardiology, Pneumology, Angiology, Cardiac Surgery, Thorax Surgery, Vascular Surgery, interdisciplinary lectures in: Angiology, Vascular Surgery, interventional Radiology, Radiology, seminars and courses: ECG seminar/course, auscultation seminar/course, non-invasive angiological diagnostic and vascular ultrasound, pulmonary function course

**Degree/Exam**: part of degree in Internal Medicine (LN11) oral and written examination, 7th semester (JAP 4)**; part of degree in Surgery (LN05) written examination, 7th semester (JAP 4)**

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**DIPOL® Course Infectious Diseases**

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

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

**Disciplines:** Immunology, Microbiology / Hygiene / Virology

**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 (Metabolism, Gastroenterology, Nephrology, Endocrinology), Surgery (Visceral Surgery), Urology

**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), Visceral Surgery written examination, 8th semester (JAP 4)**, Urology (LN21) written examination 10th semester

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), Palliative Care, Urology

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 written examination, 8th semester (JAP 4)**

DIPOL® Course Pathomechanisms

Semester (year): 5 (3)

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

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) written examination and interdisciplinary examination and Clinical Chemistry/Laboratory Diagnostics (LN13) written examination and interdisciplinary examination, 5th semester

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 (5)

Type of course: lecture, tutorial, bedside teaching

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

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

Content: theoretical approach to diseases of the skin, sexual transmitted and autoimmune diseases and diseases of the locomotor system: efflorescence, allergology, neurodermatitis, 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 immunsuppressive 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) and Orthopaedics (LN15), written examination, 7th semester; part of degree in Internal Medicine (LN11), Rheumatology, written examination, 7th semester (JAP 4)**
Epidemiology, Medical Biometry, Medical Informatics

Semester (year): 6 (3)

Type of course: lecture, tutorial

Content: epidemiological principles, clinical epidemiology, evidence-based medicine, meta-analyses, 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: 2 weeks, 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

Internal Medicine

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

Practice I:

Semester (year): 7 or 8 (4)

Type of course: clinical training

Content: once a week during one semester

Practice II:
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
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 (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

**Otolaryngology (ENT)**

**Theory:** within DIPOL® course Head

**Practice:**

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

**Type of course:** bedside teaching

**Content:** 1 week, full time

**Degree/Exam***: ENT (LN08) oral examination, 10th semester

**Paediatrics**

**Theory:**

**Semester (year):** 8 (4) and 9 (5)

**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) oral examination, 10th semester
**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, February 2015

** 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 being 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 welcome you.

Please apply as a 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 about 3 months or more - 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 250 € 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.
1. preclinical part (1st to 5th term)

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# 2. clinical part (6th to 10th term) - Dentistry

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German language skills

The teaching language at the Faculty of Medicine is German, thus it is necessary to have at least a language knowledge of level B1 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” (to be found online http://tu-dresden.de/internationales/public/publikationen_ordner).

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

Malpractice Insurance
Malpractice insurance will be covered by the Faculty of Medicine 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 a 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