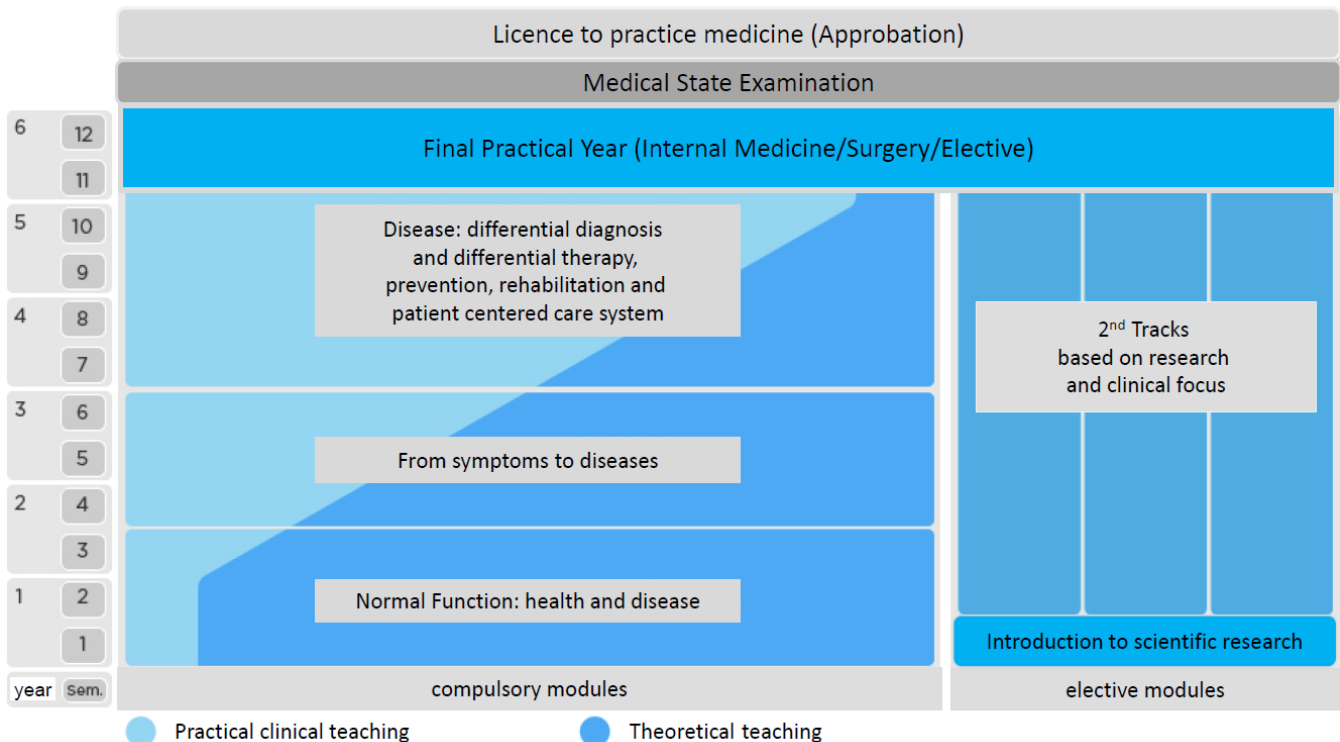


## iMED – Description of the Medical Curriculum

The medical degree program at the Faculty of Medicine of Universität Hamburg, called **iMED**, offers an innovative and integrated concept of teaching. Theoretical and practical clinical teaching contents are closely interconnected from the very first year of study and across the entire course of study.

iMED is conducted in a modularized form in 12 semesters. The interdisciplinary curriculum comprises compulsory and elective modules and is divided into three study cycles. The second and third cycle repeat similar topics with increasing complexity.

- First cycle: Semester 1 - 3 "Normal Function: Health and Disease"
- Second cycle: Semester 4 - 6 "From symptom to disease"
- Third cycle Semester 7 -12 "Disease - Differential Diagnosis and Differential Therapy, Prevention, Rehabilitation and Care"



## **Semester 1 – 3: "Normal Function: Health and Disease"**

### **Theoretical medical education incl. specific aspects of practical clinical training**

Learning objectives:

- Organ-based, modularized and interdisciplinary structure,
- Comprehensive understanding of the physiology, anatomy and biochemistry of the human body, and the biology of pathogens,
- Psycho-social core competencies (incl. doctor-patient relationship and fundamentals of patient-oriented medicine),
- Linking the theoretical knowledge with case studies and patient presentations,
- First aid for medical emergencies,
- Introduction to scientific research & fundamentals of critical scientific research

## **Semester 4 – 6: "From symptoms to disease"**

### **Practical clinical training closely linked to theoretical teaching**

Learning objectives:

- Symptom-based, modularized and interdisciplinary structure,
- Molecular, microscopic and macroscopic understanding of pathogens, disease and therapeutic principles (pathophysiology, biochemistry, anatomy/pathology, pharmacology, medical microbiology) using standard cases based on emergencies and the most common diseases,
- clinical-practical understanding of diseases and their consequences based on standard cases,
- In-depth study of the clinical examination, anamnesis, as well as the laboratory-based and basic radiological diagnostics,
- Practising constructive and professional care of patients, including special groups (e.g., children, the elderly, patients with migration background),
- Critical scientific thinking based on current research.

## **Semester 7 – 12: "Disease - Differential Diagnosis and Differential Therapy, Prevention, Rehabilitation and Care Systems"**

### **Practical clinical teaching closely linked to theoretical teaching including final practical year (PJ)**

Learning objectives:

- Comprehensive understanding of medical practice and clinical competencies
- Predominantly practical clinical teaching,
- Additional systematic lectures and seminars with in-depth reference to anatomical, physiological, biochemical, pathological, microbiological, pharmacological and psychosocial knowledge (from year 1-3).

## Module choice for incoming students

Incoming students will attend modules of the second and third cycle of the curriculum (year 3 - 5). Subjects are interdisciplinary combined in modules. Students can choose **two modules** per semester. Every module takes **6 weeks** and corresponds to **12 ECTS**. Examinations for both modules will take place at the end of each semester.

Incoming students can choose among the modules indicated in the table below. It comprises a list of subjects for each module. They can choose only entire modules and have to take the exam for the whole module including practical examinations. Minor subjects will not be recorded on the student's transcript of records.

Module (12 ECTS)	Major Subjects	Minor Subjects
<b>B3</b> Cardiovascular System/Lungs II	Anaesthesiology	Clinical Pathology
	Emergency Medicine	Clinical Pharmacology /
	Pain Medicine	Pharmacotherapy
	Vascular Medicine*	& others
	Cardiac Surgery*	
	Internal Medicine (Pneumology II, Cardiology)	
<b>C3</b> Infection/ Immunology/ Hematology II	Internal Medicine (Gastroenterology II, Oncology II, Hematology, Stem Cell Transplantation)	Medical Psychology
	Dermatology	Pharmacology/Toxicology
	Medical Informatics	Microbiology/Virology/
	Infectiology, Immunology	Hygiene
	Occupational Medicine II	& others
<b>D2</b> Obstetrics/ Child and Adolescent Medicine/ Gynecology I	Gynaecology & Obstetrics I*	Radiology
	Human Genetics I	Radiotherapy
	Paediatrics I*	Pediatric Surgery
	Child and Adolescent Psychiatry and Psychosomatic Medicine I	Medical Sociology
		& others
<b>D3</b> Obstetrics/ Child and Adolescent Medicine/ Gynecology II	Gynaecology & Obstetrics II	Pediatric Surgery
	Human Genetics II	Medical Psychology
	Paediatrics II	Forensic Medicine
	Child and Adolescent Psychiatry and Psychosomatic Medicine II	Pathology
	History, Theory and Ethics of Medicine	& others
<b>E3</b> Abdomen/ Retroperitoneum/ Endocrine System/ Metabolism II	General Surgery*	Psychosomatics and Psychotherapy
	Hepatobiliary Surgery	Clinical Pathology
	Internal Medicine (Gastroenterology III, Oncology III, Endocrinology II, Nephrology II) *	Radiology
	Urology	Radiotherapy
		Complementary Medicine & others
<b>F2</b> Head/ Neuroscience/ Psyche I	Ear, nose and throat I	Neurosurgery
	Neurology I	Medical Psychology
	Health Economics/Public Health	Pharmacology/Toxicology
	Psychiatry and Psychotherapy I	Physiology
	Psychosomatics and Psychotherapy	Radiotherapy
	& others	
<b>F3</b> Head/ Neuroscience/ Psyche II	Ophthalmology	Psychosomatics and Psychotherapy
	Ear, nose and throat II	Pathophysiology
	Psychiatry and Psychotherapy II	Clinical Pharmacology/
	Neurology II	Pharmacotherapy
	Neurosurgery	& others
<b>G3</b> Medicine of Adulthood and Aging II	General Medicine II*	Clinical Pharmacology /
	Occupational Medicine III	Pharmacotherapy
	Geriatrics	Forensic Medicine
	Social Medicine	Palliative Medicine
	Rehabilitation/Physical Medicine	& others

\* Includes additional practical training in form of a *Blockpraktikum*.  
D2, F2, C3, B3: 6th/7th semester; D3, F3, G3, E3: 8th/9th semester.

In addition to the before mentioned module choice, students who are in their 3rd year of study during the time of the semester exchange, have the possibility to choose the module C2/G2. This module is only available for **3rd-year Erasmus/SEMP students**.

Module C2/G2 (12 ECTS)**	Major Subjects	Minor Subjects
<b>C2</b> Infection/ Immunology/ Hematology I	Microbiology	
	Clinical Chemistry	
	Immunology	
	Hygiene	
<b>G2</b> Medicine of Adulthood and Aging I	Virology	
	Medical Sociology	Forensic Medicine
	Occupational Medicine	Dermatology
	General Medicine/ Family Medicine	
	Palliative Medicine	

\*\*C2: 6 ECTS, G2: 6 ECTS; total: 12 ECTS

## Optional credits

### Elective course (2nd Track)

In addition to the modules, Erasmus students can attend an **optional elective course (2nd Track)** of two weeks and **6 ECTS** per semester. The 2nd Tracks offer a scientific approach to medicine. The students shall acquire skills in data analysis and research methods with the objective to understand and critically discuss a specific research field. Based on the research and clinical focus of the University Medical Center Hamburg-Eppendorf, Erasmus students can choose from the following elective courses (places upon availability):

- Genetics in Prenatal, Child and Adolescent Medicine
- Surgical Anatomy and Techniques in Trauma Surgery and Orthopedics
- Digital Health
- Basics: Inflammation, Infection and Tropical Medicine
- intermed - Global Health, Cultural Competence and International Medicine
- Cardiovascular Medicine
- Disaster Medicine
- Minimally Invasive Medicine
- Molecular Medicine of Rare Diseases
- Brain and Mind - Fascination Neuroscience
- Practical Medicine in Obstetrics, Pediatrics, Pediatric Surgery and Pediatric Cardiology
- Preventive Medicine
- Psychosocial Medicine and Health Services Research
- The Magic of Medical Imaging
- Regenerative Medicine
- Transplantation Medicine
- Tumor Biology/Oncology
- General Practice

### **Clinical clerkship**

Alternatively, students can complete clinical clerkships during the lecture-free period or instead of an elective module (2nd Track). One week of clinical clerkships corresponds to 1.5 ECTS.

### **ECTS credits per semester:**

Modul I (12 ECTS) + Modul II (12 ECTS) + elective course (6 ECTS) = 30 ECTS per semester

For further information on the curriculum, please contact:

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