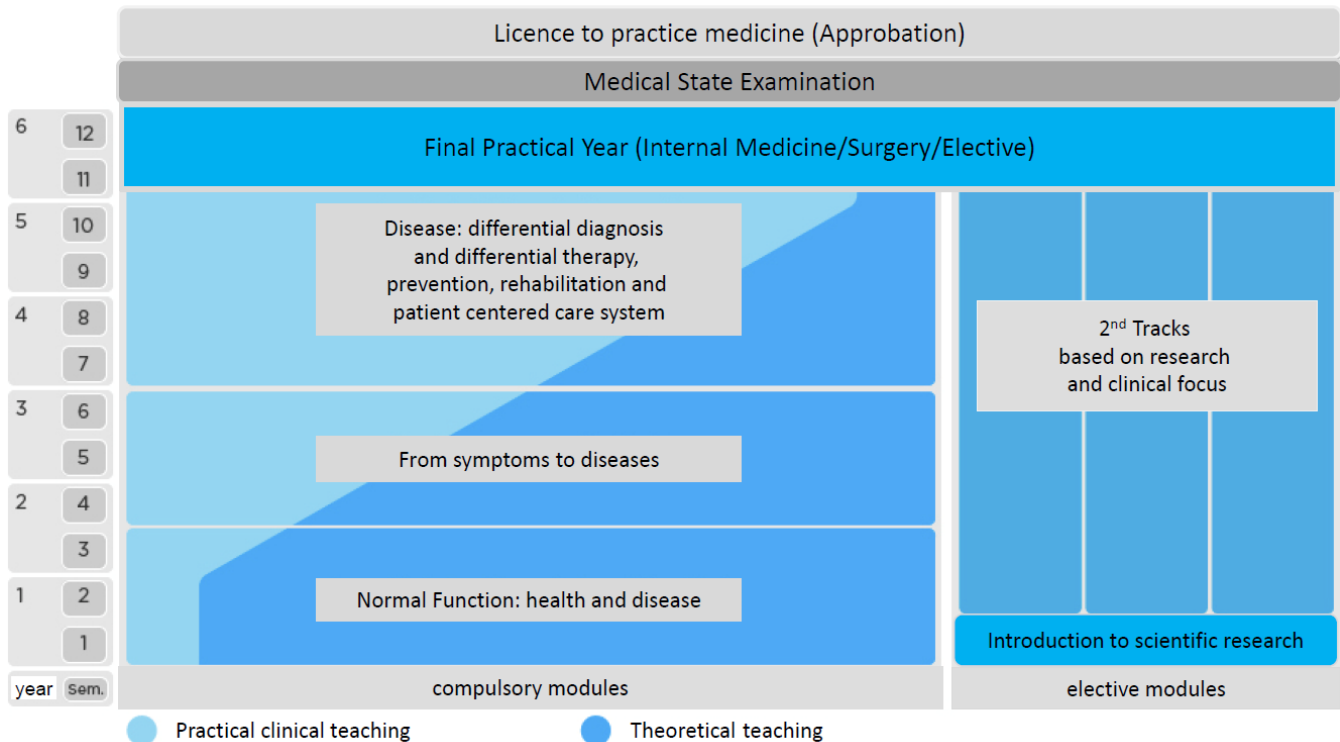


iMED – Description of the Medical Curriculum

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
B3 Cardiovascular System/Lungs II	Anesthesiology	Internal Medicine
	Vascular Medicine	Clinical Pathology
	Cardiac Surgery	Clinical Pharmacology /
	Emergency Medicine II	Pharmacotherapy
	Pneumology II	& others
	Pain Medicine	
C3 Infection/ Immunology/ Hematology II	Internal Medicine (Gastroenterology I, Oncology I, Hematology I, Bone Marrow Transplantation)	Medical Psychology
	Dermatology	Pharmacology
	Medical Informatics	Microbiology/Virology/
	Infectiology, Immunology	Hygiene
	Occupational Medicine I	& others
D2 Obstetrics/ Child and Adolescent Medicine/ Gynecology I	Gynecology & Obstetrics I + clinical practical training	Radiology & Radiotherapy
	Human Genetics I	Pediatric Surgery
	Pediatrics I + clinical practical training	Medical Sociology
	Child and Adolescent Psychiatry and Psychosomatic Medicine I	& others
D3 Obstetrics/ Child and Adolescent Medicine/ Gynecology II	Gynecology & Obstetrics II	Pathology
	Human Genetics II	Pediatric Surgery
	Pediatrics II	Medical Psychology
	Child and Adolescent Psychiatry and Psychosomatic Medicine II	Forensic Medicine
	History, Theory and Ethics of Medicine	
E3 Abdomen/ Retroperitoneum/ Endocrine System/ Metabolism II	General Surgery + clinical practical training	Psychosomatic Medicine
	Hepatobiliary Surgery	Clinical Pathology
	Internal Medicine (Gastroenterology II, Oncology II, Hematology II, Bone Marrow Transplantation II, Endocrinology II, Nephrology II) + clinical practical training	Complementary Medicine
		Radiology & Radiotherapy
	Urology	
F2 Head/ Neuroscience/ Psyche I	Ear-Nose-Throat I	Psychosomatic Medicine
	Neurology I	Medical Psychology
	Health Economics/Public Health	Pharmacology
	Psychiatry and Psychotherapy	Physiology
	Psychosomatic Medicine and Psychotherapy	Radiotherapy & others
F3 Head/ Neuroscience/ Psyche II	Ophthalmology	Physics
	Ear-Nose-Throat II	Psychosomatic Medicine
	Neurology II	Clinical Pharmacology
	Psychiatry and Psychotherapy	& others
G3 Medicine of Adulthood and Aging II	General Medicine & bloc practical training	Clinical Pharmacology /
	Occupational Medicine II	Pharmacotherapy
	Social Medicine	Forensic Medicine
	Geriatrics	Palliative Medicine
	Rehabilitation/Physical Medicine	

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 students**.

Module C2/G2 (12 ECTS)**	Major Subjects	Minor Subjects
C2 Infection/ Immunology/ Hematology I	Microbiology	
	Clinical Chemistry	
	Immunology	
	Hygiene	
	Virology	
G2 Medicine of Adulthood and Aging I	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):

- The Relevance of Genetics in Prenatal, Child and Adolescent Medicine
- Surgical Anatomy and Techniques in Trauma Surgery and Orthopedics
- Digital Health
- Inflammation, Infection, Immunity
- Intermed – Global Health, Cultural Competence and International Medicine
- Cardiovascular System (Cardiovascular Medicine, Cardiovascular Translation, Clinical Electrophysiology)
- Disaster Medicine
- Minimally Invasive Medicine
- Molecular and Experimental Medicine
- Brain and Mind - Fascination Neuroscience
- Practical Medicine in Obstetrics, Pediatrics and Pediatric Surgery
- Preventive Medicine
- Psychosocial Medicine and Health Services Research
- The Magic of Medical Imaging
- Regenerative Medicine
- Transplantation Medicine
- Tumor Biology/Oncology

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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