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Medical Faculty Heidelberg

# HeiCuMed

## Heidelberger Curriculum Medicinale

An example how to prepare flexible  
programs for Erasmus students





2014/15: admission of 321 Medicine  
and 81 Dentistry students





# Structure of Medical Studies

<b>macroscopic anatomy - medical terminology - physics - training in doctors' practices - chemistry - cellular biology</b>	<b>1</b>	<b>preclinical studies</b>
<b>- medical psychology - organs and organ functions (integrated anatomy, physiology and biochemistry)</b>	<b>2</b>	
<b>1st state examination</b>		
<b>pathology - hygiene - pharmacology - public health - surgery - urology - orthopaedics - anaesthesiology</b>	<b>3</b>	<b>clinical studies</b>
<b>- medicine - clinical chemistry - family medicine - ophthalmology – ear-nose-throat - psychiatry - neurology - paediatrics - gynaecology - dermatology – infectious diseases</b>	<b>4</b>	
	<b>5</b>	
<b>2nd state examination written part</b>		
<b>medicine - surgery - elective discipline</b>	<b>6</b>	<b>practical year</b>
<b>2nd state examination oral + practical part</b>		





# HeiCuMed Heidelberger Curriculum Medicinale

- traditional curriculum until 1999
- expertise from Harvard Medical School
- implementation in 2001
- Topic blocks – Modules - Rotations



# Learning Outcomes

**practical skills and  
problem-solving  
competence**

**medical knowledge  
in an interdisciplinary  
perspective**

**communication skills  
paired with information  
management**

**professional  
responsibility,  
willingness to life-  
long learning**



# Preclinical Studies

- integrated courses in anatomy / biochemistry / physiology + integrated examinations



- early link with clinical disciplines
  - practical training in doctors' practices
  - sonography course



# Clinical Studies

- modular courses in small groups



- MCQ- and OSCE-examinations
- ongoing evaluation of modules
- tutorials by students for students
- mentoring possibilities for students



# Clinical Studies

- ongoing training possibilities for academic teachers (DOS, MME)



- emphasis on research (8 months free)





# Modern Teaching Methods



skillslabs

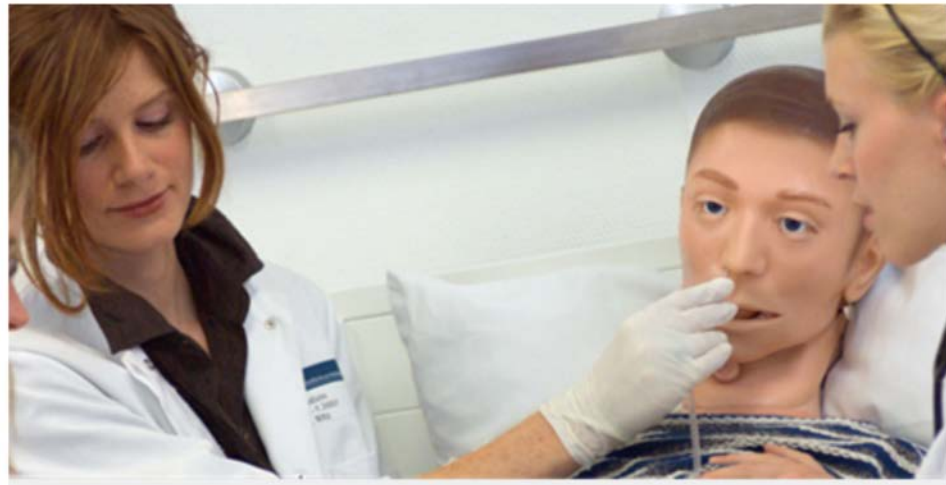
communication and interaction training (Medi-KIT)



PBL, interactive seminars

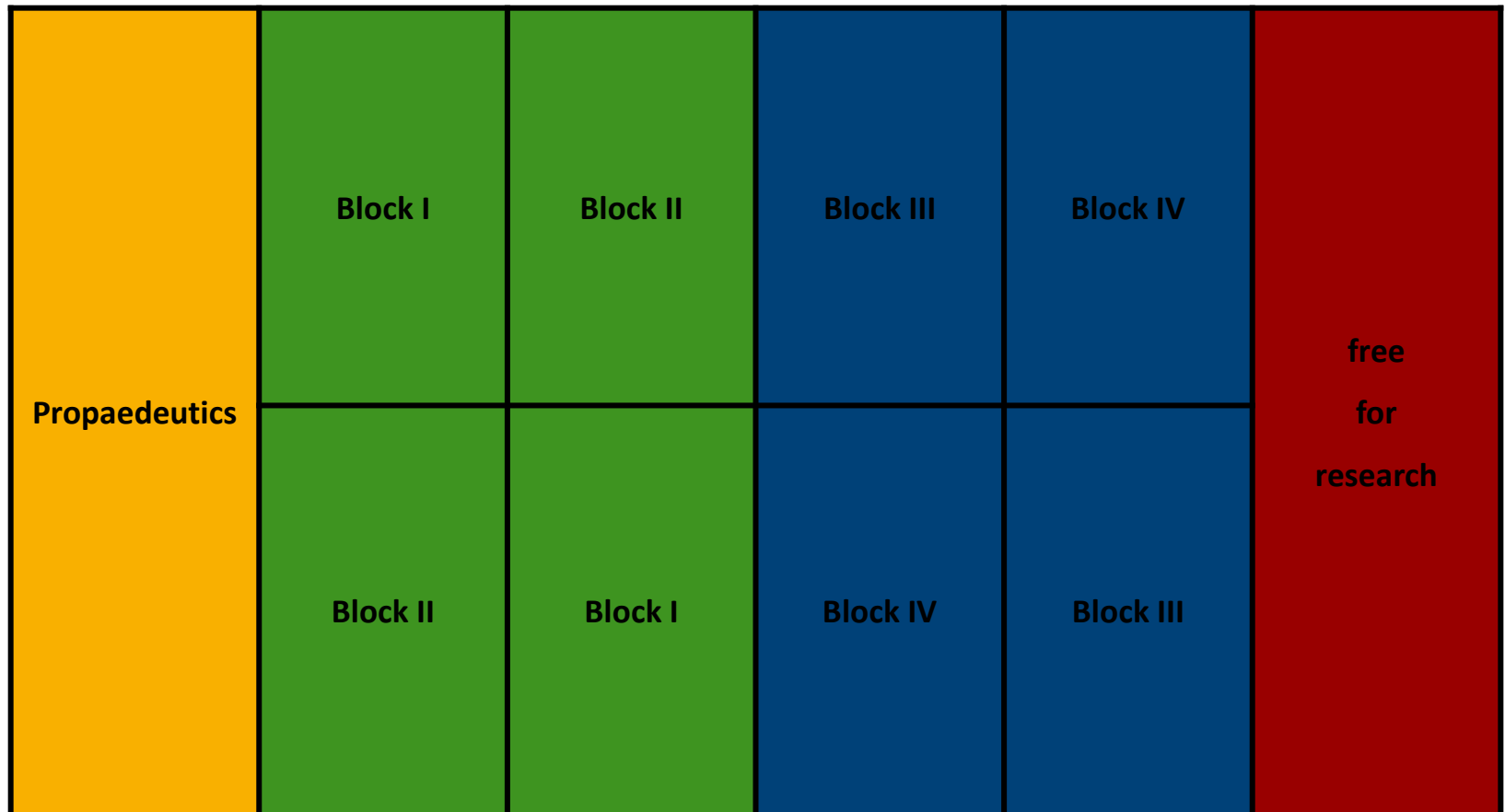
e-learning







# Clinical Studies Structure



## TOPIC BLOCKS

Propaedeutic Block	
October to March	
Block length: 20 weeks	Cours offering: once a year
5 modules of 4 weeks each	
<ol style="list-style-type: none"> <li>1. Pathology (4 weeks)</li> <li>2. Pharmacology, Toxikology (4 weeks)</li> <li>3. Propaedeutic Biometry (3 days), Preventive Medicine / Health Economics, Health System, Public Health (2 weeks), Propaedeutic Immunology (1 week) (= 4 weeks)</li> <li>4. Hygiene, Mikrobiology, Virology (4 weeks)</li> <li>5.1 Radiology, Radiotherapy, Radiation Shielding (2 weeks)</li> <li>5.2 Block Rotation Internal Medicine and Surgery (2 weeks)</li> </ol>	

Block I	Block II
March to August	
Block length: 14 weeks each	Course offering: twice a year
Internal Medicine, Family Practice, Clinical Chemistry, Laboratorial Diagnostics	Surgery, Orthopaedics, Urology, Anaesthesiology, Emergency Medicine
Week 1: Introduction	Week 1: Introduction
Weeks 2 - 3: Clinical Chemistry	Weeks 2 - 11: 5 modules of 2 weeks each
Weeks 4 - 13: 5 modules of 2 weeks each	<ol style="list-style-type: none"> <li>1. Heart-Thorax-Surgery, Plastic Surgery</li> <li>2. Visceral Surgery</li> <li>3. Vascular Surgery, Urology</li> <li>4. Orthopaedics, Trauma Surgery</li> <li>5. Anaesthesiology, Emergency Medicine</li> </ol>
<ol style="list-style-type: none"> <li>1. Cardiology, Angiology, Pulmology</li> <li>2. Gastroenterology</li> <li>3. Nephrology, General Internal Medicine</li> <li>4. Haematology, Oncology, Rheumatology</li> <li>5. Endocrinology, Sports Medicine, Geriatrics</li> </ol>	Week 12: Exams
Week 14: Exams	Weeks 13 - 14: Rehabilitation, Physiotherapy, Naturopathy
throughout the block: Family Practice	throughout the block: Clinical-Pathological Conference
integrated: Clinical Pharmacology/Pharmacotherapy	
integrated: Medicine of Aging	

Block Rotation Family Practice (1 week by arrangement)

Block II	Block I
October to February	



Block III	Block IV
March to July	
Block length: 16 weeks each	Course offering: twice a year
4 modules of 4 weeks each	4 modules of 4 weeks each
<b>1. Neurology</b> (4 weeks) <b>2. Psychiatry, Psychosomatics, Psychotherapy</b> (4 weeks) 1. + 2. separate exams at the end of each module credits from each exam combined <b>3.1 Otolaryngology</b> (2 weeks) <b>3.2 Ophthalmology</b> (2 weeks) <b>4.1 Dermatology, Venerology</b> (2 weeks) <b>4.2 Infectiology, Immunology</b> (2 weeks)	<b>1. Gynaecology, Obstetrics (with Block Rotation)</b> (4 weeks) <b>2. Paediatrics (with Block Rotation)</b> (4 weeks) <b>3. Epidemiology, Medical Biometry, Medical Informatics, Human Genetics</b> (4 weeks) <b>4. Occupational and Social Medicine, Forensic Medicine, Clinical Environmental Medicine</b> (4 weeks) throughout the block: <b>Human Genetics</b> throughout the block: <b>History, Theory and Ethics of Medicine</b>

Block IV	Block III
August to December	

Research Project, Elective Discipline (8 month, freely selectable)
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	Entry requirement for other modules
	Interdisciplinary Performance Records
	Areas of Overlap
	Block Rotations



# Block III

# Block IV

Kinderheilkunde		Frauenheilkunde		ARSU		EBI	Genetik
EBI	Genetik	Kinderheilkunde		Frauenheilkunde		ARSU	
ARSU		EBI	Genetik	Kinderheilkunde		Frauenheilkunde	
Frauenheilkunde		ARSU		EBI	Genetik	Kinderheilkunde	
durchlaufend: Vorlesung Humangenetik							
durchlaufend: Geschichte, Theorie und Ethik der Medizin							



Clinical Cycle			
First Clinical Year			
3.1	Propaedeutic Block		
3.1.1	Pathology	6	
3.1.2	Pharmacology, Toxicology	6	
3.1.3	Hygiene / Microbiology / Virology / Parasitology	6	
3.1.4	Prop. Immunology; Prop. Biometrics	3	
3.1.5	Preventive Medicine, Health Promotion; Health Economics	3	
3.1.6	Radiology, Radiotherapy, Radiation Protection	3	
3.1.7	Practical Training: Internal Medicine and Surgery	3	30
3.2	Block I: Internal Medicine		
3.2.1	Clinical Chemistry, Laboratory Medicine	4	
3.2.2	Gastroenterology	}	20
	General Internal Medicine, Psychosomatic Medicine, Nephrology		
	Cardiology, Angiology, Pulmonology		
	Hematology, Oncology, Rheumatology		
	Endocrinology, Sports Medicine		
	Family Medicine		
3.2.3	Geriatrics	2	
3.2.4	Clinical Pharmacology, Pharmacotherapy	2	
3.2.5	Practical Training: Family Medicine	4	32



Second Clinical Year			
4.1	Block II: Surgery		
4.1.1	Heart Surgery, Thorax Surgery, Plastic Surgery Visceral Surgery Vascular Surgery, Urology Trauma Surgery, Orthopedics Anesthesiology	20	
4.1.2	Emergency Medicine	2	
4.1.3	Rehabilitation Medicine, Physical Medicine, Neuropathy	4	
4.1.4	Clinical-pathologic Conference	2	
4.1.5	Palliative Care	2	30
4.2	Block III		
4.2.1	Neurology	8	
4.2.2	Psychiatry, Child Psychiatry, Psychosomatic Medicine	8	
4.2.3	ENT	4	
4.2.4	Ophthalmology	4	
4.2.5	Dermatology, <u>Allergology</u>	4	
4.2.6	Infectious Diseases, Immunology	4	32





Third Clinical Year			
5.1	Block IV		
5.1.1	Gynecology, Obstetrics and Practical Training in Gynecology, Obstetrics	8	
5.1.2	Pediatrics and Practical Training in Pediatrics	8	
5.1.3	Epidemiology, Medical Biometrics, Medical Informatics	4	
5.1.4	Clinical Genetics	4	
5.1.5	Occupational Medicine	2	
5.1.6	Social Medicine	2	
5.1.7	Forensic Medicine	2	
5.1.8	Clinical Environmental Medicine	2	
5.1.9	History, Theory and Ethics of Medicine	2	34
5.2	Elective Discipline	22	22
Final Year Practical Training			
6.0	Internal Medicine, Surgery and Elective Discipline	60	60



# International Exchange

- **Erasmus Programme**
  - 2014/15: 100 outgoing and 60 incoming students
  - 24 partners in Europe
- **Clinical clerkships**
  - exchange programmes with Korea and China
- **Final Year Practical Training**
  - exchange programmes with the United States



# Summary

- modular, rotating system
- flexibility in recognition
- study free period
- additional training possibilities
- ongoing evaluation /ongoing improvement
- training possibilities for teachers

→ [www.impp.de](http://www.impp.de)



**Thank you!**