TEACHING PLAN

Explanation of used abbreviations

The abbreviation should reduce paperwork and help the ECTS coordinator by his transcript of records.

First number: Year of the study

MED: Medicine

Second number: 1-lecture or 2-seminar or 3-course, practical work ect.

Third number: 0-voluntary, 1-urgent recommended,

2-certification of attendance

Fourth and fifth number: Consecutive number in the ECTS-book within the year of

study

Example:

First year of study, medicine, lecture, participation urgent recommended, consecutive number within year of study

FIRST YEAR - WINTER SEMESTER (01)

ANATOMY

Lectures: 1MED1101

Contents: General Anatomy and movement apparatus, General Embryology,

Histology

Course Histology: 1MED3202

Contents: Histology of the human organs

Course Macroscopy: 1MED3203

Contents: anatomical preparations

Seminars: 1MED2204

Contents: Anatomy with clinical correlations and relevance

Assessment: Courses/ seminars are necessary for the admission to the preclini-

cal exam

BIOLOGY

-Lectures: 1MED1105

Contents: Introduction, Cell Biology, Genetics, Evolution, Auto ecology, mutu-

al relations between organisms, parasitism

Seminars: 1MED2206

Contents: above-mentioned

Assessment: Practical and theoretical Assessment are necessary for admission to

the preclinical exam

CHEMISTRY

Lectures: 1MED1107

Contents: Basis of Inorganic and Organic Chemistry

Seminars: 1MED2208

Contents: Exercises to fundamental aspects of Inorganic and General Chemis-

try

Assessment: Practical and theoretical Assessment are necessary for admission to

the preclinical exam

PHYSICS

Lectures: 1MED1109

Contents: Physical fundamentals, problems relevant to biological structures

and functions and to medical diagnostic and therapeutic technologies, Radiation Physics, flow of fluids, motion of molecules in solu-

tion

Practical training: 1MED3210

Contents: 12 experiments: X-ray image, spectroscopic analysis of X-rays, X-

ray absorption, radioactive decay, half-life measurement, viscosity

coefficient, Poiseuille flow

Assessment: Practical and theoretical Assessment are necessary for admission to

the preclinical exam

MEDICAL TERMINOLOGY

Lectures: 1MED1111
Course: 1MED3212

Contents: Latin and Greek terms in medical language, physician-patient com-

munication, philosophy of language, history of medical terms

Assessment: Necessary for admission to the preclinical exam

FIRST YEAR - SUMMER SEMESTER (02)

ANATOMY

Lectures: 1MED1113

Contents: Special Anatomy, Special Embryology

Course Histology: 1MED3214

Contents: Normal Histology of the human organs

Course Macroscopy: 1MED3215 Contents: Gross anatomical preparations

Assessment: Seminars and courses histological and macroscopical anatomy are

necessary for admission to the preclinical exam

BIOCHEMISTRY

Lectures: 1MED1116

Contents: Introduction in the field of biochemistry

Seminars: 1MED2217

Contents: Selected topics of biochemistry based on the main lecture

CHEMISTRY credits:

Practical training: 1MED3218

Contents: Lab practice in Inorganic and Organic Chemistry

Assessment: Practical training is necessary for admission to the preclinical exam

PHYSIC

Practical training: 1MED3219

Contents: continuation of the above mentioned experiments (see semester 01)

PHYSIOLOGY

Lectures: 1MED1120 Seminars: 1MED2221

Contents: Cardiovascular system, blood, respiration, kidney and body fluids,

gastrointestinal tract, metabolism and temperature regulation

MEDICAL PSYCHOLOGY / MEDICAL SOCIOLOGY

Lectures: 1MED1122 Seminars: 1MED2223

Contents: Physician-patient-relationship, medical communication training psy-

chological diagnostic procedures, theory of personality, psychoana-

lytic theory, behavioural medicine, coping

Assessment: Necessary for admission to the preclinical exam

SECOND YEAR - WINTER SEMESTER (03)

<u>ANATOMY</u> :-

Lectures: 2MED1101

Contents: Anatomy of the central nervous system

Seminars: 2MED2202

Contents: Microscopic and macroscopic anatomy of the central nervous sys-

tem

Assessment: Course and practical training are necessary for admission to the

preclinical exam

BIOCHEMISTRY :-

Lectures: 2MED1103

Contents: Amino acids and proteins, enzymes, bioenergetics and intermedi-

ary metabolism including pathobiochemical aspects and nutrition, nucleic acids, expression and transmission of genetic information

Seminars: 2MED2204

Contents: Selected topics of biochemistry based on the main lecture

Practical training: 2MED3205

Contents: Methods for the determination of amino acids and proteins, separa-

tion of proteins, enzyme kinetics, assays of intracellular enzymes and metabolites, haemoglobin, separation and proof of nucleic acids, constituents of membranes, acid-base homeostasis, analysis of

urine, nutrition experiments, glucose load-test

Assessment: Seminar and practical training are necessary for admission to the

preclinical exam

PHYSIOLOGY :-

Lectures: 2MED1107

Contents: Cardiovascular system, blood, respiration, kidney and body

fluids, gastrointestinal tract, metabolism and temperature regulation

Seminars: 2MED2208

Contents: Review of main subjects of Organ Physiology

Practical training: 2MED3209

Contents: Experiments concerning the main subjects of Organ Physiology

Assessment: Practical training and seminars are necessary for admission to the

preclinical exam

MEDICAL PSYCHOLOGY / MEDICAL SOCIOLOGY

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Lectures: 2MED1110 Course: 2MED3211

Contents: Physician-patient-relationship, medical communication training. psy-

chological diagnostic procedures, theory of personality, psychoana-

lytic theory, behavioural medicine, coping

Assessment: Necessary for admission to the preclinical exam

SECOND YEAR - SUMMER SEMESTER (04)

ANATOMY :-

Lectures: 2MED1112 Seminars: 2MED2213

Contents: Topographical Anatomy, Neuroanatomy

BIOCHEMISTRY ::-

Lectures: 2MED1114

Contents: Topochemistry of cells, hormones and hormonal regulation of me-

tabolism, blood cells and proteins including acid-base-balance, iron and haem metabolism and basic immunology, specific metabolism of liver including biotransformation, adipose tissues, muscle, nervous tissues, digestive tract and correlations between organs, me-

tabolism of minerals, bones and connective tissue

Seminars: 2MED2215

Contents: Selected topics of Biochemistry based on the main lecture

Practical training: 2MED3216

Contents: Students perform experiments under supervision of a member of the

academic staff, who introduces basic experimental techniques and the theoretical background: Methods for the determination of amino acids and proteins, separation of proteins, enzyme kinetics, assays of intracellular enzymes metabolites, haemoglobin, separation and proof of nucleic acids, constituents of membranes, acid-base homeostasis, analysis of urine, nutrition experiment, glucose

load-test

Assessment: Practical training is necessary for admission to the preclinical exam

INTRODUCTION IN CLINICAL MEDICINE

Practical training: 2MED3206

Contents: Introduction to Clinical Medicine with patients, providing first con-

> tact with elementary abnormalities in the field of Internal Medicine. Students will be given the opportunity to ask both patients and the

instructor to train their clinical interviewing skills.

Necessary for admission to the preclinical exam Assessment:

PHYSIOLOGY

Lectures: 2MED1117

Contents: Muscle, Motor and integrative functions of the nervous system, gen-

eral and specific sensory physiology, cellular, systemic and behav-

ioural aspects of brain functions

2MED2218 **Seminars:**

Contents: Comparative and basic aspects of CNS and sensory organ struc-

ture and functions, review of all subjects of Muscle-, Neuro- and

Sensory Physiology

Practical training: 2MED3219

Practical work on Muscle-, Neuro- and Sensory Physiology Contents:

Assessment: Practical training and seminars are necessary for admission to the

preclinical exam

MEDICAL PSYCHOLOGY / MEDICAL SOCIOLOGY

Lectures: 2MED1120 Seminars: 2MED2221 Course: 2MED3222

Physician-patient-relationship, medical communication training, psy-Contents:

chological diagnosis, theory of personality, psychoanalytical theo-

ry, behavioural medicine, coping

Course is necessary for admission to the preclinical exam Assessment:

ASSESSEMENT OF OPPORTUNITIES IN MEDICINE "Berufsfelderkun-

dung"

Course: 2MED3223

Contents: Assessment of professional opportunities for further specialisation Assessment:

Course is necessary for the admission to the preclinical exam

ELECTIVE COURSE

Practical training: 2MED24

Selection from different fields of activity

THIRD YEAR - AUTUMN SEMESTER (05), SPRING SEMESTER (06)

CLINICAL CHEMISTRY AND LABORATORY DIAGNOSTICS

Lectures: 3MED1101

Contents: Hematology and hemostasiology, hemophilia, thrombophilia, dis-

orders of lipid metabolism, atherosclerosis, diagnosis of myocardial infarction and of heart failure, gastrointestinal disorders, molecular diagostics, allergy testing, renal diseases and hyperuricemia, liver diseases, therapeutic drug monitoring, transplantation monitoring, rheumatological disorders, diabetes and other endocrinological disorders, emergency medicine, point-of-care testing, neurological disorders, acute-phase reaction, malignant transformation and tumor markers, genomics and proteomics, acid-base analysis, gyne-

cology, quality control

Practical training: 3MED3202

Contents: Modern techniques of clinical-chemical laboratory diagnosis, inter-

pretation of laboratory data, laboratory management

<u>Assessment:</u> <u>only autumn semester</u>

EPIDEMIOLOGY

Lectures: 3MED1103 Practical training: 3MED3204

Contents: Basics of epidemiology
Assessment: only autumn semester

GENERAL PATHOLOGY

Lectures: 3MED1105

Contents: Cellular adaptation, cell injury and death, tissue responses to dam-

age, inflammation, Immunopathology, genetical diseases, neoplasia, infective, environmental, and nutritional factors of disease, diseases of the cardio-vascular and endocrinal system, metabolic diseases, morphological Basics of diseases of the respiratory, gas-

trointestinal, urinary, and central nervous system.

Course: 3MED3206

Contents: Histological course in general and Special Pathology including

Neuropathology (75 microscopical slides parallel to the lectures)

<u>Assessment:</u> <u>only autumn semester</u>

INFECTIOLOGY / MEDICAL IMMUNOLOGY (POL)

Lectures: 3MED1107

Contents: Functional Anatomy of the lymphatic system, molecular basis of

Immunology, Physiology and Pathology of the immune reaction, defence against infections, diseases of the immune system, Immunolo-

gy of transplantations

Tutorium: 3MED3208

Contens: Clinical relevant immunological tests and their purpose

<u>Assessment:</u> <u>only spring semester</u>

INTRODUCTION TO CLINICAL MEDICINE A COURSE IN THE LEARNING CLINIC

Course: 5MED3209

Contents:

<u>Assessment:</u> <u>only autumn semester</u>

INTERNAL MEDICINE

Lectures: 3MED1110

Contents: Introduction in the techniques of physical examination. Grand

rounds in Internal Medicine. A lecture series held by experienced

consultants presenting the main fields in Internal Medicine.

Practical course: 3MED3211

Contents: Bedside Teaching

Introduction to Clinical Medicine. Case presentations and discussions. Opportunity for direct contacts to patients. Discussion of clinical and laboratory results with the supervisor. Assessment of the case history, methods of physical examination (inspection, palpation, percussion, and auscultation of thorax, heart, vessels, abdo-

men).

<u>Assessment:</u> <u>only autumn semester</u>

MEDICAL MICROBIOLOGY/ VIROLOGY/ HYGIENE

Lectures: 3MED1112

Contents: All aspects of Clinical Microbiology including Virology, Bacteriolo-

gy, Mycology, Parasitology, Immunology of infectious diseases, di-

agnostic procedures and infectious disease management.

All aspects of Hygiene Management

Practical training: 3MED3213

Contents: Medical Microbiology Conventional and molecular methods of iso-

lation and identification of pathogens, detection of antibodies against pathogens employing different assay systems, methods of Assessment of the immune system, susceptibility testing of antimicro-

bial agents.

Assessment: only spring semester

PHARMACOLOGY / TOXICOLOGY

Contents:

Lectures: 3MED1114

General pharmacodynamic and -kinetic, manipulation of the sympathetic, parasympathetic, motoric, sensitive and central nervous system, antiarrhythmics, positive inotropic substances, bronchodilatators, relaxants of the vascular muscles, diuretics and antidiuretics, volume- and electrolyte substitution, manipulation of the haematopoietic system and coagulation, tissue hormones and their antagonists, manipulation of gastrointestinal functions and the immune system, agonists and antagonists at opioidreceptors, cyclooxygenase inhibitors and antirheumatics, manipulation of the uric ac-

id, lipid and bone metabolism, proteo- and steroid hormones, anti-

biotics, cytostatics, toxic substances.

Course: 3MED3215

Contents: General and Systemic Pharmacology, consolidation of knowledge

<u>Assessment:</u> <u>only spring semester</u>

BASICS OF RADIOLOGY

Lectures: 3MED3216

Contents: Physical Basics and qualities of X-rays, methods of diagnostic imag-

ing, procedures of interventional radiology, biological effects of radiation, basis Basics of modern radiotherapy, methods of protection

from irradiation, Basics of nuclear medicine.

Physics of radiation beams, biological effects of radiation, technical equipments of diagnostic imaging, radiotherapy and nuclear medi-

cine.

Course: 3MED3217

<u>Assessment:</u> <u>only autumn semester</u>

HISTORY OF MEDICINE/ETHICS (QSB)

Lectures: 5MED1118

Contents: History of ideas and concepts of medicine, social developments,

professionalization, alternative therapies

Assessment: only spring semester

Course: 5MED3219

Interdisciplinary course in Basics of History of Medicine or Ethics

Assessment: available in autumn semester

FOURTH YEAR - AUTUMN SEMESTER (07), SPRING SEMESTER (08)

ANAESTHESIOLOGY

Lectures: 4MED1120

Contents: Basics of anaesthetic techniques

<u>Assessment</u>: <u>only autumn semester</u>

Practical training: 4MED3221

Contents: Basics of anaesthetic techniques, Bedside teaching

Assessment: available in autumn or spring semester

CLINICAL PHARMACOLOGY

Lectures: 4MED1122

Contens: Basics of Clinical Pharmacology

<u>Assessment:</u> <u>only spring semester</u>

Course: 4MED3223

Contents: Drug and haemostasis, drug therapy of anaemias and hyperlipaemias, drug treatment of rheumatoid diseases and gout, diuretic drugs, therapy of fluid and electrolyte disorders. Drug treatment of disorders of the respiratory system (incl. bronchial asthma), chemotherapy of bacterial, viral, protozoal, helminthic infections and neoplastic diseases, pharmacotherapy of gastrointestinal disorders and endocrinopathies, drug therapy of diseases of the central nervous system (incl. addiction, dependence and abuse),

pain and analgesics

Assessment: available in autumn or spring semester

CLINICAL RADIOLOGY

Lectures: 4MED1124

Contents: Basics of Clinical Radiology

Assessment: only spring semester

Course: 4MED3225

Contents: Demonstration of typical clinical cases of all parts of Diagnostic

Radiology. Special problems of Clinical Radiotherapy

<u>Assessment:</u> <u>available in autumn or spring semester</u>

DERMATOLOGY, VENEROLOGY

Lectures: 4MED1126

Contents: Overview of Dermatology and systemic introduction in the field,

presentation and histology of the main diseases in Dermatology,

presentation of Dermatology and its subspecialties

Assessment: only spring semester

Practical training: 4MED3227

Contents: Diagnosis and therapy of dermatological diseases referring to mac-

romorphological and micromorphological examinations, demonstra-

tion of patients, visits at out-patient clinic and normal wards

<u>Assessment:</u> <u>available in autumn or spring semester</u>

EMERGENCY MEDICINE / FIRST AID

(POL II)

Lectures: 4MED1128 Tutorial: 4MED3229

Practical training: 4MED3230

Contents: Vital functions and death, rescue and transport of injured persons,

acute disturbances of respiration, cardio-vascular system, and central nervous system, acute disturbances of glucose metabolism.

Reanimation, vasal access, intubation, etc.

<u>Assessment:</u> <u>the whole subject only autumn semester</u>

ENVIRONMENTAL MEDICINE

Lectures: 4MED1131

<u>Assessment:</u> <u>only autumn semester</u>

Course: 4MED3232

Contents: Basics of environmental medicine

<u>Assessment</u>: <u>available in autumn or spring semester</u>

GENERAL MEDICINE

Lectures: 4MED1133

Contents: Organisation of office practice, Health Education, spectrum of dis-

eases in General Medicine, Family Medicine, case presentations in Geriatrics, multimorbidity, terminal care, prevention of cancer and

after-care

Assessment: only spring semester

Practical training: 4MED3234

Contents: Practical knowledge about daily demandings in the General Medi-

cine office

Assessment: available in autumn or spring semester

GYNAECOLOGY AND OBSTETRIC

Lectures: 4MED1135

Contents: All relevant topics of Gynaecology (Gynaecological Endocrinology,

the female hormonal cycle, hypothalamic-hypophysial axis, disturbances in ovarian function, puberty, menopause, climacteric disturbances. Fertility control: contraceptives, infertility, artificial reproductive technology. Infections: discharge, vulvitis, vaginitis, ascending

genital infections)

Normal and high risk pregnancy, prenatal care. Normal and risk delivery, birth mechanism, puerperium, premature birth, gemini, abnormal presentation of the foetus, obstetrics operations: forceps, vacuum extractor, Caesarean section, gynaecological Physiology and Pathology, congenital malformations, examination techniques

Assessment: only autumn semester

Practical training: 4MED3236 (Gynaecology I + II)

Contents: Practical work at the delivery room, Bedside teaching, Practical

work at the gynaecological outpatient department, case presentations, participation in ambulatory and ward care, small group

teaching in subspecialties

<u>Assessment:</u> <u>available in autumn or spring semester</u>

HEALTH ECONOMICS (QSB)

Practical Course: 4MED3237

Contens: Interdisciplinary course in Basics of Health Economics

Assessment: available in autumn or spring semester

HUMAN GENETICS as part of Paediatrics

Lectures: 4MED1138

<u>Assessment:</u> <u>only spring semester</u>

Course: 4MED3237

Contents: Biochemical basis, mutations of the human genome, human chro-

mosomes, chromosome aberrations, formal genetics (Mendel), multifactorial (polygene) inheritance, twins in genetical research, popu-

lation genetics, metabolic disturbances, genetic diagnostics.

<u>Assessment:</u> <u>available in autumn or spring semester</u>

IMMUNOLOGY, IMMUNOLOGY (QSB)

Practical Course: 4MED3239

Interdisciplinary course in Basics of Immunology

<u>Assessment:</u> <u>available in autumn or spring semester</u>

INTERNAL MEDICINE

Lectures: 4MED1141

(Cardiology (14), Pulmology (14), Gastroenterology (14), Endocri-

nology (14), Angiology (4)

Contents: Grand rounds in Internal Medicine. A lecture series held by experi-

enced consultants who present the main fields in Internal Medicine:

Cardiology, Pulmology, Gastroenterology, and Endocrinology

<u>Assessment:</u> <u>only autumn semester</u>

Practical training: 4MED3242

(Cardiology, Pulmology, Gastroenterology, Endocrinology, 10 h

each)

Contents: Cardiology: Management of stable and unstable angina pectoris

and myocarial infarction, chronic and acute heart failure, arrhythias, valvular heart disease, Bedside teaching, visit at the normal

wards, ICU, heart catheter lab, and diagnostic unit.

Pulmology: Bedside teaching on basics of pulmology, visit at the

out-patient clinic and normal wards.

Gastroenterology: Bedside teaching on basics of gastroenterology, Basics of endoscopy, visit at the out-patient clinic and normal wards.

Endocrinology: Bedside teaching on basics of endocrinology, elearning, case presentations, visit at the out-patient clinic and normal wards.

Assessment: available in autumn or spring semester

PAEDIATRICS

Lectures: 4MED1143

Contents: Neonatology, nutrition, Gastroenterology, infectious diseases, res-

piratory infections, growth, development, Endocrinology, inborn endocrinological disorders, perinatal infections, Social Paediatrics, infant mortality, Haematology, Haemostaseology, Neuropaediatrics, Cardiology, Cardiologic Emergency, metabolic disorders, Allergology, Immunology., antimicrobial chemotherapy, Oncology, child abuse, intoxications/poisoning, early human development

and developmental disabilities in infancy,

Assessment: only spring semester

Practical training: 4MED3244

Contents: Small group bed side teaching, guided attendance in the outpatient

department or neonatal intensive care Paediatrics I: Management of the wards.

Paediatrics II: From hospital admission to clinical follow up after

discharge

Paediatrics III: Special fields of Paediatrics (Oncology, Haematology, ICU, Cardiology, Psychiatry, Haemodialysis Paediatrics IV: Ne-

onatology and Human Genetics

Assessment: available in autumn or spring semester

Prevention

Course: 4MED3245

Contens: Interdisciplinary course in Basics of Prevention

<u>Assessment:</u> <u>available in autumn or spring semester</u>

SPECIAL PATHOLOGY/ CLINICAL-PATHOLOGICAL CONFERENCE

Lectures: 4MED1146

<u>Assessment:</u> <u>only spring semester</u>

Course: 4MED3247

Contents: Demonstration and discussion of autopsy cases with clinicopatho-

logical correlation, demonstration of instructive and relevant biopsy and surgical specimens from the main histological laboratory

Clinical Pathology of heart and vessels, lung and mediastinum, female and male genital organs, urinary tract, breast, pregnancy,

gastrointestinal tract,

liver, pancreas, haematopoietic and lymphatic system, endocrine

organs, tissues and bones, articulations, skin

<u>Assessment:</u> <u>available in autumn or spring semester</u>

TRAUMATOLOGY as part of Surgery I

Lectures: 4MED1148

Contents: General Traumatology, Out-patient Surgery,

<u>Assessment</u>: <u>only autumn semester</u>

Practical training: 4MED3249

Contents: Practical training of simple surgical procedures, Bedside teaching

Assessment: available in autumn or spring semester

UROLOGY

Lectures: 4MED1150

Contents: Selected questions of Urology

Assessment: only spring semester

Practical training: 4MED3251

Contents: Bedside teaching in small groups, physical examination, main uro-

logical procedures, interpretation of laboratory data and imaging

techniques

<u>Assessment:</u> <u>available in autumn or spring semester</u>

VISCERAL SURGERY

Lectures: 4MED1152

(Visceral Surgery I + II

Contents: General Surgery, Out-patient Surgery, Special (visceral + thorac-

ical) Surgery

Assessment: only autumn semester

Practical training: 4MED3253

Contents: Practical training of simple surgical procedures, Bedside teaching

<u>Assessment:</u> <u>available in autumn or spring semester</u>

FIFTH YEAR - AUTUMN SEMESTER (09), SPRING SEMESTER (10)

CARDIAC SURGERY

Lectures: 5MED1154

Contents: Basics of aortocoronary bypass surgery, valve replacement and

reconstruction, HTX/ LTX, surgery of congenital diseases, assist de-

vices, minimal-invasive surgery

Assessment: only autumn semester

Practical Training: 5MED3255

Contents: Bedside Teaching, see above mentioned topics

<u>Assessment:</u> <u>available in autumn or spring semester</u>

CLINICAL PHARMACOLOGY (QSB)

Lectures: 5MED1156

Contents: drug therapies in different diseases of internal medicine, see above

mentioned topics

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3257

Interdisciplinary course in Basics of Clinical Pharmacology

<u>Assessment:</u> <u>available in autumn or spring semester</u>

ELECTIVE COURSE

Practical Course: 5 MED3258

Contents: Selection of various medical topics

<u>Assessment:</u> <u>available in autumn or spring semester</u>

ENVIRONMENTAL MEDICINE

Course: 5MED3259

Contents: Basics of environmental medicine
Assessment: available in autumn or spring semester

FORENSIC MEDICINE

Lectures: 5MED1160

Contents: Diagnosis of death, death certificate, time of death, identification,

sudden natural death, death by blunt force, sharp force and firearms, asphyxia, drowning, fire injury, cold injury, electrical injury, child abuse, infanticide, drug abuse, intoxication, traces, Forensic Thanatology, Psychopathology, traffic accidents, medical jurispru-

dence

Assessment: only autumn semester

Practical Training: 5MED3261
Contents: mentioned above

Assessment: available in autumn or spring semester

GERIATRICS (POL III, QSB)

Lectures (POL III): 5MED1162

<u>Assessment:</u> <u>only spring semester</u>

Tutorial (POL III): 5MED3263

<u>Assessment:</u> <u>only spring semester</u>

Course (QSB): 5MED3264
Contents: Basics of geriatrics

Assessment: available in autumn or spring semester

HEALTH ECONOMICS (QSB)

Lectures: 5MED1165

Contents: Basics of health economics

<u>Assessment</u>: <u>only autumn semester</u>

Course: 5MED3266

Contents: Basics of health economics

<u>Assessment:</u> <u>available in autumn or spring semester</u>

INFECTIOLOGY/IMMUNOLOGY (QSB)

Lectures: 5MED1167

Contents: Interdisciplinary course in Basics of Immunology

<u>Assessment:</u> <u>only spring semester</u>

Course: 5MED3268

Interdisciplinary course in Basics of Immunology

<u>Assessment:</u> <u>available in autumn or spring semester</u>

INTERNAL MEDICINE

Lectures: 5MED1169

(Gerontology, Rheumatology, Nephrology, Haematology, Intensive

Care)

Contents: Grand rounds in Internal Medicine. A lecture series held by experi-

enced consultants who present the following fields in Internal Medicine: Gerontology, Rheumatology, Nephrology, Intensive Care

Assessment: only spring semester

Practical Training: 5MED3270

(Geriatrics, Rheumatology, Haematology, Nephrology and Intensive

Care)

Contents: Rheumatology: Bedside teaching on basics of rheumatology, case

presentations, visit at the out-patient clinic and normal wards. Haematology: Bedside teaching on basics of haematology, case presentations, visit at the out-patient clinic and normal wards. Geriatrics: Bedside teaching on basics of geriatrics, visit at the

normal wards.

<u>Assessment:</u> <u>available in autumn or spring semester</u>

NEURO SURGERY as part of Surgery II

Lectures: 5MED1171

Contents: Traumatic diseases of the CNS, tumours of the CNS including pitui-

tary adenomas, hydrocephalus, vascular malformations including SAH, degenerative disorders of the spine, Surgery of peripheral

nerves

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3272

Contents: Indications for neurosurgical operations

<u>Assessment:</u> available in autumn or spring semester

NEUROLOGY

Lectures: 5MED1173

Contents: Diagnosis and treatment of neurologic disorders with presentation

of patients

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3274 (Neurology I and II)

Contents: Neurologic bedside teaching with examination of patients in small

groups and obtaining of case history, teaching of neurologic syn-

dromes

<u>Assessment:</u> <u>available in autumn or spring semester</u>

OCCUPATIONAL MEDICINE (QSB)

Lectures: 5MED1175

Contents: Stress-strain-concept, dangerous chemical substances, physical ef-

fects on people, occupational diseases, problems of occupational injuries. Problems of Occupational Medicine in the hospital, Clinical Occupational Medicine, psychophysiological methods in Occupational Medicine, Occupational Toxicology, Ergonomy, occupational accidents, Preventive Occupational Medicine, cooperation with Occupational Health Care Units, dangerous substances at work-

place and in environment (analysis)

<u>Assessment:</u> <u>only autumn semester</u>

Course: 5MED3276

Assessment: available in autumn or spring semester

OPHTALMOLOGY

Lectures: 5MED1177

Contents: Special and scientific problems in Ophthalmology

<u>Assessment:</u> <u>only spring semester</u>

Practical Training: 5MED3278

Contents: Clinical Ophthalmology, systematic review of Ophthalmology and

repetition of examination techniques

<u>Assessment:</u> <u>available in autumn or spring semester</u>

ORAL AND MAXILLOFACIAL SURGERY as part of Sur-

gery II

Lectures: 5MED1179

Contents: Main diseases of teeth, mouth and jaw with relevance for the physi-

cian

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3280
Contents: mentioned above

Assessment: Practical training is necessary for admission to the second state ex-

am

Assessment: available in autumn or spring semester

ORTHOPAEDICS

Lectures: 5MED1181

Contents: Different aspects of Orthopaedics with patient demonstration, sport

injuries and late damages

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3282 (Orthopaedics I and II)

Contents: Bedside demonstration of in-patients, introduction to out-patients

department, additional lessons in the Department of Physical Thera-

py as well as in the Workshop of Technical Orthopaedics

<u>Assessment:</u> <u>available in autumn or spring semester</u>

OTORHINOLARYNGOLOGY

g

Lectures: 5MED1183

Contents: Main ENT-diseases including case presentations, diagnosis and

therapy, examination techniques. Diagnosis and treatment of tumours, foreign bodies and trauma in the ENT region, diagnosis and treatment of conductive and sensorineural hearing loss, otosclerosis,

Mb. Ménière, epistaxis, nasal allergy, nasal polyposis.

<u>Assessment:</u> <u>only spring semester</u>

Practical Training: 5MED3284

Contents: Main examination techniques of ear, nose and throat. Clinical as-

pects of ENT-diseases with case presentations, examination tech-

niques (mutual examination)

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PAEDIATRIC SURGERY

Lectures: 5MED1185

Contents: Common and specialised Paediatric Surgery: Neonatal Surgery,

Abdominal Surgery, Paediatric Neurosurgery (hydrocephalus, myelomeningocele), treatment of solid tumours in childhood, Paediatric Urology, Plastic Surgery and surgical treatment of thermal injury, general management of major injuries (cerebral, thoracal, abdominal trauma, polytrauma), Paediatric Trauma Surgery and Orthopaedics. Acute abdomen, Ambulatory and Day Surgery, patient

handling, Traumatology (elbow and ankle joint injuries, acute head injuries), Neurosurgery (internal hydrocephalus, spina bifida, crani-

ostenosis), Laser-and Cryosurgery

<u>Assessment:</u> <u>only autumn semester</u>

Practical training: 5MED3286
Contents: bedsite teaching

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PAIN MEDICINE

Lectures: 5MED1187

Assessment: only spring semester

Course: 5MED3288

Contents: Basics of pain medicine

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PALLIATIVE MEDICINE (QSB)

Lectures: 5MED1189

<u>Assessment:</u>

Course: 5MED3290

Interdisciplinary course in Basics of Palliative Medicine

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PREVENTION (QSB)

Lectures: 5MED1191

<u>Assessment:</u> <u>only spring semester</u>

Course: 5MED3292

Interdisciplinary course in Basics of Prevention

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PSYCHIATRY

Lectures: 5MED1193

Contents: Suicide, crisis management, forensic psychiatry, anxiety disorders,

family psychiatry, psychiatry in general practice, child and adolescent psychiatry. Affective disorders, Psychotherapy, drug and alcohol abuse, personality disorders, psychosomatic disorders, schizo-

phrenia, Psychopharmacology

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3294

Contents: Management of patients with affective disorders, Psychotherapy,

personality disorders, psychosomatic disorders, suicide and crisis

management.

Assessment: Practical training is necessary for admission to the second state ex-

am

<u>Assessment:</u> <u>available in autumn or spring semester</u>

PSYCHOSOMATIC MEDICINE

Lectures: 5MED1195

Contents: Introduction to the theory of the aetiology, symptoms and patho-

genesis of psychogenetic diseases, introduction to the main methods

of Psychotherapy

<u>Assessment:</u> <u>only autumn semester</u>

Practical Training: 5MED3296

Contents: Practical exercises in biographic anamnesis of psychosomatic pa-

tients, including reflections to aetiology, pathogenesis and therapy

of psychosomatic disorders

<u>Assessment:</u> <u>available in autumn or spring semester</u>

REHABILITATION (QSB)

Lectures: 5MED1197

Contents: Basics of rehabilitation programs

<u>Assessment:</u> <u>only spring semester</u>

Course: 5MED3298

Interdisciplinary course in Basics of Rehabilitation

<u>Assessment:</u> <u>available in autumn or spring semester</u>

SPECIAL PATHOLOGY/ CLINICAL-PATHOLOGICAL CONFERENCE

Course: 4MED3299

Contents: Demonstration and discussion of autopsy cases with clinicopatho-

logical correlation, demonstration of instructive and relevant biopsy

and surgical specimens from the main histological laboratory

Clinical Pathology of heart and vessels, lung and mediastinum, female and male genital organs, urinary tract, breast, pregnancy,

gastrointestinal tract,

liver, pancreas, haematopoietic and lymphatic system, endocrine

organs, tissues and bones, articulations, skin

<u>Assessment:</u> <u>available in autumn or spring semester</u>

SIXTH YEAR - PRACTICAL YEAR (SEMESTER 11 and 12)

After the successfully completed clinical part of the study students have to attend the Practical Year at University Hospitals or affiliated Academic Teaching Hospitals (Akademische Lehrkrankenhäuser). The education is divided into 3 parts per 16 weeks. Surgery and Internal Medicine are mandatory parts of the practical year. The third subject can be chosen individually. Students work at the hospital under the guidance of a full-licensed physician. Participation at clinical meetings, discussions and conferences form another part of the training. Along with the duty on the ward goes a theoretical training. The Practical Year ends with the second part of the State Examination.

SURGERY, INTERNAL MEDICINE OR AN OTHER CLINICAL SUBJECT

: 20

Practical Course:

6MED3300

 $640 h = 3 \times 16 weeks$

Assessment:

only possible for foreign students when academic subject were acknowledged by:

Bezirksregierung Düsseldorf

Dez. 24

Landesprüfungsamt für Medizin, Psychotherapie und Pharmazie

Fischerstr. 10 40477 Düsseldorf Tel. 0211 4750

COMPARISON OF GRADING SCALES

German Grading Scale	Definition	ECTS Grading scale	Definition
1	Excellent: Outstanding performance with only minor errors	A	Excellent: Outstanding performance with only minor errors
2	Good: Above the average standard but some errors	В	Very good: Above the average standard but with some minor errors
3	Satisfactory: Generally sound work with a number of nota- ble errors	С	Good: Generally sound work with a number of notable errors
4	Sufficient: Performance meets the minimum criteria	D	Satisfactory: Fair but with significant shortcomings
-		E	Sufficient: Performance meets the minimum criteria
5	Fail: Some more work required before the credit can be awarded	FX	Fail: Some more work required before the credit can be awarded
6	Fail: Considerable further work is required	F	Fail: Considerable further work is required