



Module Catalogue

for the Subject

Clinical Research and Epidemiology

with the degree "Begleitstudium"
(90 ECTS credits)

Examination regulations version: 2012
Responsible: Faculty of Medicine

Contents

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The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	60	5
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Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

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associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

24-Oct-2012 (2012-174)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Compulsory Courses

(60 ECTS credits)

Module title		Abbreviation
Introduction in epidemiology and biometry		03-KFE-1-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Foundations of clinical and epidemiological research; fundamental concepts of diagnostics and their application; meaning and computation of epidemiological risk measures.		
Intended learning outcomes		
The students have developed a fundamental knowledge on questions of clinical research and epidemiology, on study designs as well as potential sources of and measures against bias of study results. They are familiar with performance parameters of diagnostic tests and are able to provide quantitative interpretations of diagnostic test results. They are also familiar with fundamental epidemiological risk measures and are able to compute them from data.		
Courses (type, number of weekly contact hours, language – if other than German)		
V + Ü (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) and oral examination (approx. 25 minutes)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Introduction in epidemiological and biometrical methods 1		03-KFE-2-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Basics of the statistical software SPSS; data preparation; descriptive statistics; basic methods of inference statistics.		
Intended learning outcomes		
The students are able to create data tables, to import and export data, to pool and merge as well as to transform and recode data. They have learned to describe data numerically by statistical measures and to represent it graphically. They are familiar with significance tests and confidence estimates as well as fundamental methods for one and two-sample problems.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
seminar paper (approx. 10 pages)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Introduction in epidemiological and biometrical methods 2		03-KFE-3-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Statistical modelling by multiple regression for metric, binary, ordinal and survival data.		
Intended learning outcomes		
The students perform multiple regression analyses by the general linear model, binary and ordinal logistic regression as well as Cox regression (including time-dependent covariates) and are able to test for interaction effects.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
seminar paper (approx. 10 pages)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Advanced biostatistical methods		03-KFE-4-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Complex analyses of larger data sets to solve topical research questions; creation of tables and figures suitable for presentation in a scientific publication; additional statistical methods will be taught as needed for the specific task.		
Intended learning outcomes		
The students become familiar with a topical research question and the related data set. They perform all statistical analyses to answer the questions and learn to present the results in tables and figures. They also contribute to presenting the statistical methods and results, aiming at a co-authorship of a scientific publication in a peer-reviewed journal.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and written examination (approx. 60 minutes) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Advanced epidemiological methods		03-KFE-5-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
2 semester	graduate	--
Contents		
Further aspects of study design; analysis of the relationship between risk factors and outcome; fundamental concept of evidence-based medicine.		
Intended learning outcomes		
In further discussions of design aspects, the students learn how to purposefully use methodological elements to answer research questions and to assure the quality of study data. They perform numerical analyses to quantify the relationship between risk factor and outcome in the given study context and assess the evidence arising from the data.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
How to read a paper		03-KFE-6-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Attendance of the course "How to read a paper"; seminar paper in the form of a paper review.		
Intended learning outcomes		
The students know the requirements regarding the structure and content of publications in the context of various study designs. They also know typical pitfalls for authors and readers. By writing a review on a published paper, they have practised to critically reflect strengths and shortcomings of scientific work.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Practical training clinical research 1		03-KFE-14-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Four-week practical training in a clinical or epidemiological research unit. Written summary of research topics the participant was involved in, of experiences and newly acquired knowledge and skills, and critical reflection of the practical training.		
Intended learning outcomes		
The students acquire practical experience in all domains of the real world of studies. This includes preparation of studies and study documents, data acquisition (including examination of study participants), data management, data checks, study logistics etc. In the summary report, students relate their newly acquired experience to the theoretical matter studied so far and learn about the practical meaning of theoretical issues.		
Courses (type, number of weekly contact hours, language – if other than German)		
P (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Practical training clinical research 2		03-KFE-16-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Four-week practical training in a clinical or epidemiological research unit. Written summary of research topics the participant was involved in, of experiences and newly acquired knowledge and skills, and critical reflection of the practical training.		
Intended learning outcomes		
The students acquire practical experience in all domains of the real world of studies. This includes preparation of studies and study documents, data acquisition (including examination of study participants), data management, data checks, study logistics etc. In the summary report, students relate their newly acquired experience to the theoretical matter studied so far and learn about the practical meaning of theoretical issues.		
Courses (type, number of weekly contact hours, language – if other than German)		
P (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Colloquium clinical research 1		03-KFE-15-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-14
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Regular attendance of the colloquium and contributions to the discussion; presentation of the participant's own practical training in a talk.		
Intended learning outcomes		
The colloquium talk provides students with an opportunity to review what they have learned in the practical course. During the talk and discussion with their classmates, students will be able to practise their communication skills. The presentation of the individual topics will provide all participants with more in-depth insights into the real world of studies.		
Courses (type, number of weekly contact hours, language – if other than German)		
K (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 30 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Colloquium clinical research 2		03-KFE-17-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-16
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Regular attendance of the colloquium and contributions to the discussion; presentation of the participant's own practical training in a talk.		
Intended learning outcomes		
The colloquium talk provides students with an opportunity to review what they have learned in the practical course. During the talk and discussion with their classmates, students will be able to practise their communication skills. The presentation of the individual topics will provide all participants with more in-depth insights into the real world of studies.		
Courses (type, number of weekly contact hours, language – if other than German)		
K (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 30 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Compulsory Electives

(30 ECTS credits)

Module title		Abbreviation
Clinical trial methodology		03-KFE-7-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B) / Centre for Clinical Studies		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Attendance of the certified course for clinical investigators offered by the Clinical Trial Centre Würzburg.		
Intended learning outcomes		
Participants are familiar with the fundamental principles of good clinical practice, legal requirements for drug and medical device studies and other regulatory aspects. They are also familiar with requirements regarding the study protocol, the conduct of a study, data management and quality assurance.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Introduction in clinical research questions		03-KFE-8-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	graduate	--
Contents		
Regular attendance of the research seminar of the Institute of Clinical Epidemiology and Biometry and/or a co-operating institution; talk delivered by participants.		
Intended learning outcomes		
The students actively participate in the discussion of topical (internationally relevant) research. Delivering a presentation on a topic of their choice, students have learned to select relevant sources, to prepare them for presentation and to develop a critical view on published material.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Transferable skills training		03-KFE-9-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B) / Graduate School of Life Sciences		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Attendance of a transferable skills course of the participant's choice offered by the GSLS.		
Intended learning outcomes		
The students acquire and extend their technical skills in scientific work such as writing papers, giving talks, professional poster design, literature search etc.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
log (approx. 2 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Evidence based medicine		03-KFE-10-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Systematic reviews and meta-analyses; aims of clinical guidelines.		
Intended learning outcomes		
The students assess evidence from several sources. They are familiar with methods of systematic review of existing evidence and meta-analysis. They have developed a background knowledge about the development of clinical guidelines.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Diseasespecific epidemiology		03-KFE-11-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B) / Comprehensive Heart Failure Center		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Attendance of two courses of the Winter School in Epidemiology; selected topics of disease-specific research are presented in lectures and discussed in seminars.		
Intended learning outcomes		
The students develop an understanding of the specific implementation of general methods and techniques in the context of disease-specific research. In the joint sessions of students, young clinicians and scientists as well as academic teachers, they practise the interdisciplinary exchange of thoughts and knowledge in a workshop atmosphere.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Health services research		03-KFE-12-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B)		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Special aspects of studies on quality assurance and health services; discussion of examples from recent publications.		
Intended learning outcomes		
The students know the specific requirements for studies in health service research. They take into account these particularities when defining study questions, choosing suitable study designs and appropriate statistical methods which are distinct from approaches in other epidemiological or clinical studies.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		

Module title		Abbreviation
Prognostic modelling		03-KFE-13-122-m01
Module coordinator		Module offered by
Institute of Clinical Epidemiology and Biometry (ICE-B) / Comprehensive Heart Failure Center		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	03-KFE-1 and 03-KFE-2 and 03-KFE-3
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Examples of prognostic modelling from literature will be studied in seminars; practical exercises.		
Intended learning outcomes		
The students practise performing prognostic analyses and developing prognostic scores. They know common characteristics and differences between prognostic questions and analyses in comparison to diagnostic and etiologic research.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (approx. 45 minutes) and seminar paper (approx. 5 pages) Language of assessment: German, English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Complementary non-degree programme Clinical Research and Epidemiology (2012)		