

Module title		Abbreviation
Biometrical methods		03-KFE-02-152-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)
6	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Basics of the statistical software SPSS; data preparation; descriptive statistics; basic methods of inference statistics. Advanced part: statistical modelling by multiple regression for metric, binary, ordinal and survival data.		
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. Advanced part: 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)		
V (4) + Ü (2)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
oral examination in groups (approx. 30 minutes per candidate) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
180 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Clinical Research and Epidemiology (2015)		