Module title	Abbreviation
Quantitative Methods 1 A	06-PSSc-Quanti1A-152-m01

Module coordinator	Module offered by
holder of the Chair of Quantitative Methods in the Social Sciences	

ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	graduate	May not be combined with 06-PSSc-Quanti1B.

Contents

Repetition of multiple linear regression as a basis for further advanced data analysis procedures. Selected topics of advanced quantitative data analysis, especially advanced analysis methods and/or modern research design (e.g. Factorial Surveys). Problems of causal inference and identification of causal effects. Particular advanced regression methods such as multi-level analysis, panel data analysis, etc. are treated in depth. Hands-on application with statistical software (e.g. Stata or R).

Intended learning outcomes

Students acquire the competence to use modern statistical software to test theoretically derived hypotheses with advanced analytical methods lege artis and to apply advanced research designs. They are able to present the findings to a scientific audience in written and oral form on the basis of complex procedures and are able to answer critical questions (e.g. on problems of model specification, bias or the identification of causal effects). They have the competence to read and understand articles from leading international journals. Students know a selected method of data analysis in its depth (e.g. multi-level analysis or panel data analysis) and are able to apply it by using statistical software.

Courses (type, number of weekly contact hours, language — if other than German)

S (2)
Module taught in: German and/or English and potentially other language

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 90 minutes, numerical grade), b) oral examination of one candidate each (approx. 30 minutes, numerical grade), c) term paper (approx. 25 pages, numerical grade), d) presentation (approx. 30 minutes, numerical grade) and term paper (approx. 25 pages, numerical grade), weighted 1:4, e) portfolio (approx. 50 hours total, numerical grade), f) research report (approx. 15 pages, numerical grade)
Language of assessment: German and/or English and potentially other language
creditable for bonus

Allocation of places

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Additional information

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Workload

150 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 (2 majors) Political and Social Sciences (2015)
Master's degree (1 major) Political and Social Sciences (2015)

Master's degree (1 major) Chinese Politics and Society (2019)
Master's degree (1 major) Political and Social Sciences (2020)
Master's degree (1 major) Social Science Sustainability Studies (2021)