Advanced module: Data Analysis 3B
06-AM-DA3B-112-m01

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

ECTS
5

Duration
1 semester

Course level
undergraduate

Other prerequisites
Not to be combined with 06-AM-DA3A.

Contents
Techniques of ordinary least squares regression using statistical software like SPSS, SAS, R, or STATA: deduction of hypotheses from theories in political sociology; construction of hierarchical models; calculation and interpretation of f-tests and increment f-tests; $R^2$ as a measure of explained variance; t-tests for linear effects, effects of categorial factors, nonlinear effects, and interaction effects; calculation of conditional predicted values; prerequisites of ols regression models; oral and written discussion and presentation of ols-regression models

Intended learning outcomes
Participants acquire the competency to use techniques of OLS regression modelling in statistical software in order to test hypotheses deducted from scientific theories and to present findings both in oral and written form in the scientific community.

Course
S (no information on SWS (weekly contact hours) and course language available)

Method of assessment
(a) presentation (approx. 30 minutes) or (b) short presentation (maximum 15 minutes) or (c) essay (approx. 5 pages) or (d) review (maximum 3 pages) or (e) exercises (including case trains) as specified by lecturer or (f) scientific poster in accordance with the guidelines of scientific working practices, must be submitted electronically (other form optional but not sufficient) or (g) log (approx. 2 pages) or (h) leading a discussion on a topic specified by the lecturer as part of a course or (i) exercises as specified by lecturer or (j) attendance of interviewer training course and short presentation (approx. 20 minutes) or (k) attendance of interviewer training course and short presentation (approx. 10 minutes) or (l) attendance of interviewer training course and 2 short presentations (approx. 10 minutes each)

Assessment offered: once a year
Language of assessment: German, English and other language where required

Additional information

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in
Bachelor’s degree (1 major) Political and Social Studies (2011)
Bachelor’s degree (1 major, 1 minor) Political and Social Studies (Minor, 2011)
Bachelor’s degree (1 major, 1 minor) Political and Social Studies (2013)