Module title: Data Analysis: Multivariate Statistics 2
Abbreviation: 06-AM-DA2-092-m01

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

Module offered by: 06-AM-DA2-092-m01

ECTS: 10
Method of grading: numerical grade
Only after succ. compl. of module(s): --

Duration: 1 semester
Module level: undergraduate
Other prerequisites: By way of exception, additional prerequisites are listed in the section on assessments.

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; R² 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.

Courses:
This module comprises 2 module components. Information on courses will be listed separately for each module component.
- 06-AM-DA2-1-092: S (no information on SWS (weekly contact hours) and course language available)
- 06-AM-DA2-2-092: S (no information on SWS (weekly contact hours) and course language available)

Method of assessment:
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component 06-AM-DA2-1-092: Data Analysis: Multivariate Statistics 2-1
- 5 ECTS, Method of grading: numerical grade
- a) research report (approx. 15 pages) or term paper (approx. 15 pages) or scientific poster (1 page, DIN A0)
- Language of assessment: German or English and in addition French where required
- Other prerequisites: A knowledge of statistics and of the methods of empirical social research is recommended.

Assessment in module component 06-AM-DA2-2-092: Data Analysis: Multivariate Statistics 2-2
- 5 ECTS, Method of grading: numerical grade
- a) research report (approx. 15 pages) or term paper (approx. 15 pages) or scientific poster (1 page, DIN A0)
- Language of assessment: German or English and in addition French where required
- Other prerequisites: Module component 06-AM-DA2-1 is recommended as well as a knowledge of statistics and the methods of empirical social research.

Allocation of places:
--

Additional information:
--

Referred to in LPO I (examination regulations for teaching-degree programmes):
--
<table>
<thead>
<tr>
<th>Module appears in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor' degree (1 major) Political and Social Studies (2008)</td>
</tr>
</tbody>
</table>