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| Details about the module |
| Code | **Academic year** | **Study semester** |
| POL 204 | 2 | **4** |
| Description | **VL** | **UE** | **LU** | **ECTS** |
| Quantitative methods in the social sciences | 3 | 0 | 0 | 5 |
|  |
| language | German |
| Education | **Bachelor** | **X** | **Master** |  | **PHD** |  |
| Degree program | Political Science and International Relations |
| Forms of teaching and learning | Precise lecture |
| Module type | **mandatory** | **X** | **elective** |  |
| learning goals | After successfully completing the course, students master the basics of quantitative methods in the political science application, esp. Differences from quantitative and qualitative research and their theoretical Background, scale levels and questionnaire construction, as well as other special features in the collection and evaluationquantitative data. One focus is on preparation, Implementation and evaluation of a small project with subsequent presentation, with 10% in the Overall assessment is included. |
| Learning content | In this course, students learn the basic terms and Fundamentals of quantitative methods in political science in Theory and application. In particular, it is about different concepts of quantitative research and their Application for data collection and data evaluation.The main topics are• Conceptual basis of quantitative methods• Research designs in quantitative methods• Scale levels and scaling methods• Quantitative data and their production, processing anddocumentation• Difference between data collection and data evaluation• Frequencies, descriptive statistics and functions with Excel• Differentiate uni-, bi- and multivariate analysis |
| Participation requirements | - |
| coordination | - |
| Presenter | Dr. Dominic Heinz |
| Contributors | - |
| Internship status | - |
| Technical literature |
| Books / scripts | Westle, Bettina (2018): Methoden der Politikwissenschaft.Baden-Baden: Nomos |
| Other sources | - Baur, Nina, Blasius, Jörg (Hrsg.) (2014): Handbuch Methodender empirischen Sozialforschung. Wiesbaden: SpringerVS- Behnke, Joachim, Baur, Nina, Behnke, Nathalie (2006):Empirische Methoden der Politikwissenschaft. UTB- Schnell / Hill / Esser (2008): Methoden der empirischenSozialforschung. München: Oldenbourg- Diekmann, Andreas (2016): Empirische Sozialforschung.Hamburg: Rowohlt |
| Study materials |
| Documents | - |
| Homework | - |
| exams | - |
| Composition of the module |
| Mathematics and basic sciences |  | % |
| engineering |  | % |
| Construction design |  | % |
| Social sciences |  | % |
| Educational science |  | % |
| Natural sciences |  | % |
| Health sciences |  | % |
| Expertise |  | 100% |
| Rating System |
| Activity  | **Tally**  | **Weighting in Final Grade (%)** |
| Intermediate exams | 1 | 40 |
| quiz |  |  |
| Homework |  |  |
| presence | mandatory |  |
| exercise | 1 | 10 |
| Projects |  |  |
| final exam | 1 | 50 |
| Total | **100** |
| ECTS credit points and workload |
| Activity | **Tally** | **Duration** | **Total Weighting (Hours)** |
| Lecture time | 15 | 3 | 45 |
| Self-study |  |  |  |
| Homework |  |  |  |
| Presentation / seminar preparation | 1 | 1 | 15 |
| Intermediate exams | 1 | 2 | 45 |
| exercise |  |  |  |
| laboratory |  |  |  |
| Projects |  |  |  |
| final exam | 1 | 2 | 45 |
| Total workload | **150** |
| ECTS credits (Total Weighting (Hours))  | **5** |
| Learning outcomes |
| 1 | In this course, students learn the basic terms and basics quantitative methods of political science. |
| 2 | Students learn how quantitative methods, whose basic concepts and foundations are learned, are used in social science theory and practice. |
| Wöchentliche Themenverteilung |
| 1 | Introduction, overview |
| 2 | Quantitative research designs |
| 3 | Basic terms: defining, operationalizing, measuring |
| 4 | Scale levels and scaling methods |
| 5 | Individual and aggregate data analysis |
| 6 | Cross-section and longitudinal section analysis |
| 7 | Exercise: Descriptive Statistics with Excel |
| 8 | Selection process and representativeness (samples) |
| 9 | Data collection: quantitative survey, answer scales |
| 10 | Quantitative observation and content analysis |
| 11 | Data preparation and quality criteria |
| 12 | Uni and bivariate analysis |
| 13 | Multivariate analysis |
| 14 | Project presentations / repetition, open Fri |
| 15 | Repetition, exam preparation |
| Contribution of learning outcomes to the learning objectives of the program (1-5) |
|  | **P1** | **P2** | **P3** | **P4** | **P5** | **P6** | **P7** |
| 1 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 2 | 5 | 5 | 4 | 5 | 4 | 4 | 5 |
| Contribution level: 1: Very low 2: Low 3: Medium 4: High 5: Very high |
| *https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=tr&curSunit=5767* |
| Created by: | Res. Assist. Fatıma Zehra Alkan |
| Date of update: | 28.04.2022 |