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| BS03: Econometrics | | | | Study Programme: | B |
| Module Type: | ECTS Credits: | Workload: | Study semester: | Module Duration: | |
| Compulsory | 10 | 300 | 3. | one semester | |
| Courses (HPW=hours per week): | | | Contact hours: | Independent study: | Planned Group Size: |
| Course 1: Econometrics (4 HPW) | | | 60h | 120h | 160 |
| Course 2: Econometrics – Tutorial (2 HPW) | | | 30h | 90h | 160 |
| Intended Learning Outcomes (ILOs): | | | | | |
| By the end of the module, students will be able to <ul style="list-style-type: none"> - describe fundamental concepts of econometrics and analyse empirical studies; - evaluate empirical studies by applying the concepts learned in course 1; - conduct an empirical analysis by using statistical software (R) and selected datasets.. | | | | | |
| Key competencies: | | | | | |
| <ul style="list-style-type: none"> - Problem solving - Critical thinking - Analytical skills - Willingness to learn and accomplish - Expressiveness (written) | | | | | |
| Description/Contents: | | | | | |
| Course 1: Econometrics <ol style="list-style-type: none"> 1. Refresher of elementary Statistics and Linear Algebra 2. Introduction to statistical Software Package R 3. Derivation and Properties of classical uni- and multivariate Linear Regression (Ordinary Least Squares, OLS) 4. Functional Forms 5. Heteroscedasticity, Autocorrelation, Endogeneity 6. Panel Data 7. Newer Developments Course 2: Econometrics – Tutorial <ol style="list-style-type: none"> 1. Deepening contents of course 1 by exercises 2. Application of Empirical Analyses with R | | | | | |
| Language: | | | | | |
| The language of the module is German. | | | | | |
| Teaching Methods: | | | | | |
| Lectures, group work, self-study. | | | | | |
| Module Applicability: | | | | | |
| B.Sc. Economics. | | | | | |

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| Pre-requisites/Requirements: |
| Admission to study Economics for a Bachelor's degree. |
| Examination Types: |
| Comprehensive examination in the form of a written exam at the end of the winter semester (90 minutes). |
| Requirements for Award of Credit Points: |
| Successful participation in the exam. The exam will be passed if the grade is at least „sufficient“ (4,0). |
| Availability: |
| The module will be offered generally each winter term. |
| Assessment: |
| This course will be graded and is part of the calculation for the overall grade of your bachelor degree. Particular information concerning the calculation of the overall grade can be gathered in the respective examination regulations. |
| Person Responsible and Main Lecturer: |
| PD Dr. Ulrich Heimeshoff and teaching/research assistants. |
| Further Information: |
| Current information can be found at the website of the DICE. |

Stand: 12.01.2018