## Module description

Module title					Abbreviation
Descriptive Statistics and Introduction to Probability					12-Stat-G-132-m01
Module coordinator				Module offered by	
holder of the Chair of Econometrics				Faculty of Management and Economics	
ECTS Method of grading		Only after succ. compl. of module(s)			
5 numerical grade					
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
Description: This module deals with the basic terms and concepts of descriptive statistics, indices and probability calculus. It introduces students to common frequency distributions and fundamental distributional characteristics of one- dimensional data as well as basic concepts and methodology necessary for the description and interpretation of multi-dimensional data. In addition, interpretation and calculation with indices as well as fundamental terms of probability calculus are discussed in the second half of the course. Outline of syllabus: 1. Basic terms in statistics 2. Frequency distributions 3. Distributional characteristics 4. Multi-dimensional data 5. Index calculus 6. Fundamental probability calculus 7. Random variables and distributions Reading: Assenmacher, W.: Deskriptive Statistik, Springer. Bamberg, G., Baur, F.: Statistik, Oldenbourg. Bohley, P.: Statistik, Oldenbourg. Bohley, P.: Statistik, Schäffer-Poeschel. Leiner, B.: Einführung in die Statistik. Litz, HP.: Statistik, Schäffer-Poeschel. Leiner, B.: Einführung in die Statistik. Litz, HP.: Statistik, Schäffer-Poeschel. Leiner, B.: Attistische Methoden in den Wirtschafts- und Sozialwissenschaften, Oldenbourg. Mosler, K., Schmid, F.: Beschreibende Statistik I für Volkswirte, Betriebswirte und Soziologen, Verlag Franz Vahlen. Schira, J.: Statistische Methoden er VWL und BWL, Pearson Studium.					
become familiar with the application and interpretation of common visual and formal tools for descriptive data analysis while simultaneously learning how to competently deal with economic and/or statistical data. On the visual side, this includes knowledge of the construction and interpretation of histograms, bar plots, pie charts, and empirical distribution functions, while on the formal side students learn how to deal with basic distributio- nal characteristics and correlation measures. Additionally, students are familiarized with index calculus and in- terpretation (in particular the Laspeyres and the Paasche price index) as well as with the most fundamental con- cepts and terms of probability calculus. The competences acquired in this course serve as a prerequisite for "Introductory Statistics II".					

V + Ü (no information on SWS (weekly contact hours) and course language available)

**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. 60 minutes) or b) written examination (approx. 90 minutes) or c) written examination (approx. 120 minutes)

## Allocation of places

Number of places: 840. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics) (BSc with 180 ECTS credits), Wirtschaftsmathematik (Mathematics for Economics) (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) as well as Bachelor's students with the minor Wirtschaftswissenschaft (Business Management and Economics) (60 ECTS credits). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standar-dised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.

Additional information

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Workload

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Teaching cycle

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

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## Module appears in

Bachelor's degree (1 major) Business Management and Economics (2013) Bachelor's degree (1 major) Business Information Systems (2014) Bachelor's degree (1 major) Business Information Systems (2013)

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