Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Quantitative Forschungsmethoden
Code der Lehrveranstaltung	64221
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	SECS-S/05
Sprache	Italienisch
Studiengang	Bachelor in Sozialpädagogik
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	Prof. Giulia Cavrini, GCavrini@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/13718
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	1
KP	7
Vorlesungsstunden	30
Laboratoriumsstunden	20
Stunden für individuelles Studium	125
Vorgesehene Sprechzeiten	21
Inhaltsangabe	The course, which also includes a lab module, aims to provide the foundations of statistical and demographic reasoning, offering the tools to understand and analyze social phenomena using quantitative methods. The program includes an introduction to the logic of statistics, the classification of variables, techniques for summarizing and comparing data, the analysis of relationships between variables, and the use of social and demographic indices

	and indicators. The course will also explore technical aspects related to the study of population, with reference to its structure, the events that affect it, and its dynamics. The lab module is designed to provide a practical introduction to the analysis of social and demographic data using Excel.
Themen der Lehrveranstaltung	During the course, the following topics will be covered: • Introduction to statistical methodology and descriptive statistics. • Statistical survey and creation of a questionnaire. • Definition of variable, statistical unit, population, and sample. • Statistical description of a group: from data collection to the data matrix. • Frequency distribution of a variable and its graphical representation. • Measures of central tendency and position. • Measures of variability. • Analysis of the association between two variables: the contingency table. • Elements of demography.
Stichwörter	Definition of variable; Simple and joint frequency distributions; Means; Variability; Definition of Association.
Empfohlene Voraussetzungen	Basic mathematics knowledge acquired during high school.
Propädeutische Lehrveranstaltungen	/
Unterrichtsform	The course consists of in-person 30 hours of lectures and 20 hours of lab sessions, during which the professor will present the various topics. The lecture content will be delivered using PowerPoint presentations, which will be made available to students on TEAMS. All sessions follow a mixed approach: traditional lecture-based teaching alternates with interactive learning moments, with proportions varying depending on the topic and the type of activity carried out. Typically, the interactive component will be more prominent during in-class exercises and lab sessions.
Anwesenheitspflicht	In accordance with the regulation
Spezifische Bildungsziele und erwartete Lernergebnisse	

Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	
Art der Prüfung	The course examination consists of two parts: • A theoretical part, which will be assessed through a written test containing questions and exercises aimed at verifying both the knowledge and understanding of the course topics, as well as the ability to apply this knowledge to practical cases. • A practical part, assessed through a lab test in which the student will be required to analyse a dataset, answer the given questions, and describe the results obtained.
Bewertungskriterien	The final grade will be the weighted average of the written exam (5/7) and the lab assessment (2/7). Both parts must be passed in order to pass the exam. Additionally, two in-course (optional) assessments will be held during the semester. Passing both of these (one of which will include the lab part) will count as the final grade, which will be calculated as the weighted average of the two assessments, according to the criteria outlined above. If one of the two partial assessments is not passed, it may be retaken during the final exam. In any case, students may take the final exam if the grades from the in-course assessments are not considered satisfactory. • The evaluation criteria for the written exam are: accuracy of the answers provided, appropriateness of comments in sections requiring personal interpretation, and knowledge of the methods needed to solve the proposed exercises. • The evaluation criteria for the lab assessment are: knowledge of the software and techniques required to solve the proposed task, and the adequacy of the interpretation of the results obtained.
Pflichtliteratur	M.K. Pelosi, T.M. Sandifer, P. Cerchiello, P. Giudici *Introduzione alla statistica*, McGraw Hill, 2009 seconda edizione (chapters 0 to 4). A. Rosina e A. De Rose. *Demografia.* Egea. Milano. 2017 P. Poli *EXCEL 2019. Formule e analisi dei dati.* Hoepli Informatica.

	Lecture notes prepared by the teacher will also be provided.
Weiterführende Literatur	
Weitere Informationen	
Ziele für nachhaltige Entwicklung (SDGs)	Hochwertige Bildung

Kursmodul

Titel des Bestandteils der Lehrveranstaltung	Quantitative Methoden der Sozialforschung
Code der Lehrveranstaltung	64221A
Wissenschaftlich-disziplinärer Bereich	SECS-S/05
Sprache	Italienisch
Dozenten/Dozentinnen	Prof. Giulia Cavrini, GCavrini@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/13718
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	
KP	5
Verantwortliche/r Dozent/in	
Vorlesungsstunden	30
Laboratoriumsstunden	0
Stunden für individuelles Studium	95
Vorgesehene Sprechzeiten	15
Inhaltsangabe	The course aims to provide the foundations of statistical and demographic reasoning, offering the tools to understand and analyze social phenomena using quantitative methods. The program includes an introduction to the logic of statistics, the classification of variables, techniques for summarizing and comparing data, analysis of relationships between variables, and

	the use of social and demographic indices and indicators. The course will also explore technical aspects related to the study of the population, with reference to its structure, the events that modify it, and its dynamics.
Themen der Lehrveranstaltung	During the course, the following topics will be covered: • Introduction to statistical methodology and descriptive statistics. • Statistical survey and questionnaire design. • Definition of variable, statistical unit, population, and sample. • Statistical description of a group: from data collection to the data matrix. • Frequency distribution of a variable and its graphical representation. • Measures of central trend and position. • Measures of variability. • Analysis of the association between two variables: the contingency table. • Elements of demography.
Unterrichtsform	The course consists of 30 hours of in-person lectures during which the instructor will present the various topics. The lecture content will be delivered using PowerPoint presentations, which will be made available to students on TEAMS. All lessons will follow a "blended" approach, where traditional lecture-based teaching will alternate with interactive teaching moments, in varying proportions depending on the topic and the type of activity being conducted. Typically, the "interactive component" will be more prominent during in-class exercises.
Pflichtliteratur	M.K. Pelosi, T.M. Sandifer, P. Cerchiello, P. Giudici *Introduzione alla statistica*, McGraw Hill, 2009 seconda edizione (chapters 0 to 4). A. Rosina e A. De Rose. *Demografi*a. Egea. Milano. 2017. Lecture notes prepared by the teacher will also be provided.
Weiterführende Literatur	

Kursmodul

Titel des Bestandteils der Lehrveranstaltung	Quantitative Methoden der Sozialforschung (LAB)

Code der Lehrveranstaltung	64221B
Wissenschaftlich-disziplinärer Bereich	SECS-S/05
Sprache	Italienisch
Dozenten/Dozentinnen	Prof. Giulia Cavrini, GCavrini@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/13718
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	
KP	2
Verantwortliche/r Dozent/in	
Vorlesungsstunden	0
Laboratoriumsstunden	20
Stunden für individuelles Studium	30
Vorgesehene Sprechzeiten	6
Inhaltsangabe	The lab module of the Quantitative Social Research course aims to provide a practical introduction to the analysis of social and demographic data using Excel. It will focus on the application of descriptive statistical techniques to the study of social and demographic phenomena, as covered in the theoretical module, with particular attention to the interpretation of results and their communication.
Themen der Lehrveranstaltung	The topics covered in this part of the course, which includes the use of EXCEL, are: - Setting up the data matrix. - Manipulating variables and cases: recoding, case selection, and separate analyses. - Univariate analysis: descriptive statistics, frequency distributions, and charts. - Bivariate analysis: cross-tabulations.
Unterrichtsform	The lessons include hands-on computer use by the students, who will be introduced to the use of EXCEL. Only a few hours will be delivered through traditional lectures, while the majority will

	involve students working in small groups to analyse datasets provided by the professor.
Pflichtliteratur	P. Poli *EXCEL 2019. Formule e analisi dei dati.* Hoepli Informatica. Lecture notes prepared by the teacher will also be provided.
Weiterführende Literatur	