

Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Data Management und Analytics
Code der Lehrveranstaltung	31010
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	ECON-05/A
Sprache	Englisch
Studiengang	Master in Tourismusmanagement
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	dr. Tun-I Hu, TunI.Hu@unibz.it https://www.unibz.it/en/faculties/economics-management/academic-staff/person/48974
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	2
KP	6
Vorlesungsstunden	36 Online
Laboratoriumsstunden	-
Stunden für individuelles Studium	-
Vorgesehene Sprechzeiten	18 Online
Inhaltsangabe	The course provides a comprehensive overview of key scientific concepts related to data analytics. Course objectives include: 1. Equipping students with a solid foundation in data management, including techniques for data storage, retrieval, cleansing, and manipulation. 2. Building proficiency in the application of statistical methods

	and predictive analytics tools for analyzing and interpreting large-scale datasets. 3. Developing the ability to design and implement effective, data-driven decision-making strategies across multiple industries.
Themen der Lehrveranstaltung	-Introduction to R software -Basic data management -Clustering analysis -Dimension reduction method -Factor analysis -Time series analysis
Stichwörter	data analytics, data management, statistical methods, time series analysis.
Empfohlene Voraussetzungen	
Propädeutische Lehrveranstaltungen	
Unterrichtsform	The entire lectures and office hours will be held online. All the lecture material, software exercises and datasets will be uploaded to OLE.
Anwesenheitspflicht	-
Spezifische Bildungsziele und erwartete Lernergebnisse	INTENDED LEARNING OUTCOMES (ILO) ILO 1: KNOWLEDGE AND UNDERSTANDING ILO 1.1 The student acquires the competence to apply knowledge and understanding about the role of tourism in the economic development of communities, regions and nations. ILO 1.2 The student acquires the competence to understand and quantitatively analyse tourism phenomena in order to support business decision-making processes. ILO 2: ABILITY TO APPLY KNOWLEDGE AND UNDERSTANDING ILO 2.1 The student also acquires the ability to read and understand economic analyses. ILO 2.2 The student acquires the ability to interpret and use summary indicators of interest for the economic and market development policies of tourist destinations as well as individual enterprises in the sector. ILO 2.3 The student understands and uses statistical-quantitative

	methodologies for the description, monitoring and evaluation of problems characterising the tourism system. ILO 3: AUTONOMY OF JUDGEMENT ILO 3.1 Acquire the ability to select data and use appropriate information to describe a problem concerning the management of tourism enterprises as well as tourism associations and destinations ILO 4: COMMUNICATION SKILLS ILO 4.1 The Master's degree graduate will be able to communicate effectively in oral and written form the specialised content of the individual disciplines, using different registers depending on the recipients and the communicative and didactic purposes, and to evaluate the formative effects of his/her communication. Written and oral communication skills are particularly developed in the training activities carried out for the preparation of the Master's thesis, in the discussion of business cases and in interactive lectures involving group discussions and the comparison of individual analyses. ILO 5: LEARNING SKILLS ILO 5.1 To identify thematic connections and to establish relationships between different cases and contexts of analysis ILO 5.2 To develop general models from the phenomena studied.
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	-
Art der Prüfung	Students who attend the lesson and present a project: 50% project, 50% exam. Students who non attend the lesson: 100% written exam. Project: group work and oral presentation - online. All ILOs are assessed (ILO 1-5) Exam: Written- in presence. All ILOs are assessed (ILO 1-5)
Bewertungskriterien	The evaluation criteria for this course will primarily focus on the students' understanding of the core course content. Students will be assessed on their proficiency in applying statistical methods and

	predictive analytics tools with R software to analyze and interpret large-scale datasets effectively. The ability to design and implement data-driven decision-making strategies across various industries will also form a component of the evaluation. Overall, the assessment aims to ensure that students not only acquire theoretical knowledge but also demonstrate practical skills in managing and analyzing data to support informed decision-making.
Pflichtliteratur	For each course topic, slides and exercises sheets will be provided and uploaded to OLE by the professor before each lesson.
Weiterführende Literatur	-
Weitere Informationen	-
Ziele für nachhaltige Entwicklung (SDGs)	Menschenwürdige Arbeit und Wirtschaftswachstum