

Bachelor degree course International Management Studies in the Baltic Sea Region (BMS) Description of the module valid as of WS 2022/2023

Modulibezeichnung / Module title Data Literacy Semester / Trimester 2nd Dauer des Moduls / Duration of the module 1 semester Art des Moduls (Pflicht, Wahl, etc.) / Module type (Compulsory, Elective etc.) Compulsory subject Ggfs. Lehrveranstaltungen des Moduls / if applicable: sub-module - Häufigkeit des Angebots des Moduls / The module is offered Annually (summer semester) Zugangsvoraussetzungen / Prerequisites for attending None Verwendbarkeit des Moduls für andere Module und Studiengänge / Applicability of the module for other modules and degree courses This course is a preparatory course for further mathematically oriented subjects in BMS. Modulverantwortliche/r / Lecturer in charge Prof. Dr. Gero Szepannek Name of the lecturer English Lehrsprache / Language of instruction English Zahl der zugeteilten ECTS-Punkte / Number of ECTS credits 5 Gesamtworkload und ihre Zusammen- setzung / Workload and its composition 150 hours (86 h self-study; 64 h contact time) SWS / Contact hours per week 4 Art der Prüfung / Assessment methods Written examination (2 hours) Gewichtung der Note in der Gesamtnote / Weight in final grade 2 % Knowledge & Understanding: Students	Modul-Nr./ Module Code	BMSB1800
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computer-based analysis of data while using standard tools from the field of		
using standard tools from the field of		
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descriptive statistics.		•
		descriptive statistics.
Applying knowledge and understanding		
Students are aware of the PPDAC		_
problem solving cycle. The course	Qualifikationaziala dan Madula (Lanning	
Qualifikationsziele des Moduls / Learning outcomes of the module world examples and offers students the		
		•
chance training the use of the		•
methodology on use cases with data.		methodology on use cases with data.
Making judgements		Making judgements
After the lecture the students are able to		
		critically evaluate results of a data analysis
in a broader context such as the origin of		
the data as well as its quality and		u
representativity.		



	<u>Communication:</u> Results obtained are presented and discussed in class.
	Learning skills: The work carried out in this module prepares students for formal treatment of economic problems in their further studies and in their job. It encourages them to individually pursue further mathematical analysis of economic situations. The students are able to describe and interpret the data for a given situation and to derive consequences for necessary resources and optimisation. They know the limitation of learnt methods and can appreciate the contribution of others. Data representation, data quality, computer-based exploratory data analysis,
Inhalte des Moduls / Syllabus	dependence between variables, confounder variables variables and causality.
Lehr- und Lernmethoden des Moduls / Teaching methods of the module	2 h/week lecture (seminar form) + 2 h/week exercises; accompanying tutorial
Besonderes / Special features	Practical application of the methodology in PC labs.
Literatur / Literature	 Ben Jones (2020): Data Literacy Fundamentals: Understanding the Power & Value of Data, Data Literacy Pres. Karsten Lübke, Martin Vogt (2014): Angewandte Wirtschaftsstatistik: Daten und Zufall (FOM-Edition) Taschenbuch, Springer Gabler. Jordan Morrow (2021): Be Data Literate: The Data Literacy Skills Everyone Needs To Succeed, Kogan Page