

2.17 Module 17: Scientific Techniques

Module no. or code	17	
Module name	Scientific Techniques	
The Module's classes	Research and Scientific Techniques (2 SWS) Seminar (2 SWS)	
Module content	<p>This course introduces students to a number of research methods useful for academic and professional investigations of information practices, texts and technologies.</p> <p>Research and Scientific Techniques:</p> <ul style="list-style-type: none"> • Basics of theory of sciences • Tools for empirical research • How to write a scientific paper • How to avoid plagiarism • Data base research • Citation <p>Seminar:</p> <ul style="list-style-type: none"> • Define and clarify a topic • Literature research • Secondary research • Primary research • Writing a scientific paper • Presentation 	
Module's learning outcomes	<u>Level</u>	<u>The students ...</u>
	Reproduction	<ul style="list-style-type: none"> • are able to write a structured scientific paper using the different standards of citation • evaluate the relevant resources according to their essentials and apply them to a scientific text or presentation • develop a table of content as a structure for a scientific paper • are able to apply professional data base research in scientific papers • create a presentation and present it in a given time frame

Module Descriptions

	Knowledge and Comprehension	<ul style="list-style-type: none"> • recognise relevant sources concerning the topic • are able to put theoretical knowledge into practical applications • interpret essential findings and discuss them verbally or in writing • are able to name strengths and weaknesses of their research 		
	Problem Solving	<ul style="list-style-type: none"> • evaluate their findings and compose a scientific paper or presentation • summarize essential research outcomes and create a value based analysis as a basis for decisions • reflect scientific findings with regard to their importance and apply them 		
Semester	<p>3 and 4</p> <p>The course can be offered in semester 3 and 4 and has to be taken only once.</p>			
Duration of Module	1 Semester			
Frequency	Every Semester			
ECTS-Credits	6			
Workload	Workload (Total)	Attendance time	Self-study	exam preparation
	180 h	45 h	90 h	45 h
Type of module	Mandatory			
Applicability of the Module	<p>Necessary for writing thesis (Module 28).</p> <p>Equivalent to TWIN Programme BBW Module 17 <i>Wissenschaftliches Arbeiten</i></p>			
Conditions of participation				
Responsible for module	Dr. Rainer Wehner			
Lecturer	Dr. Rainer Wehner/Guest Lecturer			
Language of instruction,	English			
Type of examination;	other examined assignment (soP): Presentation (B), Home Work (E); decision and announcement at the beginning of the semester			
Weight	3,8%			

Teaching and learning formats of the module	Tuition in Seminars
Particularities	
Literature	Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers, the Seventh Edition (2006) Merriam Webster's Collegiate Dictionary, 10th ed. (Springfield, MA: Merriam-Webster, 1993) Theisen: Wissenschaftliches Arbeiten, Verlag Franz Vahlen: München Kornmeier, Wissenschaftlich schreiben leicht gemacht, Haupt Verlag: Bern Balzert/Schröder/Schäfer: Wissenschaftliches Arbeiten, W3L-Verlag: Herdecke