

Valid for 2024.FS

Modulo Nama: Tashi	nology Apparament				
Module Name: Techi					
Module Code Module Description	w.MA.XX.TEAS.23HS Students will learn to analyze and assess technologies, products, and materials regarding their impact on the environment and society from different perspectives and from the macro to the micro level. The instruments for assessing the circular economy are also taught. This provides students with the means to develop solutions and strategies and make decisions for the circular economy on various levels: for example, by improving products, defining standards, identifying gaps and optimization potential, and categorizing products and services (labelling). They will be enabled to derive multilevel and multi-perspective conclusions for the circular economy. Circular Economy Management				
Program and Specialization					
Legal Framework	Academic Regulations MSc in Circular Economy Management dated 02.06.2022, Appendix to the Academic Regulations for the degree program in Circular Economy Management, first adopted on 23.09.2022				
Module Category	Module Type: Compulsory Elective				
ECTS	6				
Organizational Unit	W Center for Corporate Responsibility CCR				
Module Coordinator	Corinna Baumgartner (bamo)				
Deputy Module Coordinator	Thorsten Busch (buth)				
Prerequisite Knowledge	Life cycle assessment Assessment methods and forecasting				
Contribution to Program Learning Goals (Affected by Module)	 Professional Competence Methodological Competence Social Competence Self-Competence 				
Contribution to Program Learning Objectives	Professional Competence Knowing and Understanding Content of Theoretical and Practical Relevance Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance Evaluate Content of Theoretical and Practical Relevance Methodological Competence Problem-Solving & Critical Thinking Scientific Methodology Work Methods, Techniques, and Procedures Information Literacy Creativity & Innovation Social Competence Written Communication Teamwork & Conflict Management Intercultural Insight & Ability to Change Perspective Self-Competence Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change				
Module Learning Objectives	Students § systematically analyze and structure a given problem and use various methods of analysis for this purpose (material flow analysis, risk assessment, human rights impact assessment, circularity assessment, etc.). § apply the methodological knowledge they have acquired to case studies. § are able to recognize a broad spectrum of actions and their consequences. § are able to carry out an effective technology assessment using appropriate tools. § are able to apply various assessment methodologies and know their differences. § are able to recommend the best possible course of action. § can draw correct conclusions from the data, interpret the results of analyses, compare them with other technologies, and explain the differences.				

	S Technology assessment: definition and goals. S The basics of technological, product, and material developments. Understanding the socio-economic framework. Ethical and societal foundations of technical developments. Developments and their repercussions on society. Different assessment methods and forecasts (risk, ethics, material flow, circularity, costs, resilience, sustainability, MCDA, etc.). Tools and their application to practical topics. Evaluation and communication of results.							
	The content of this module is linked to the following modules: w.MA.XX.BUPAST.23HS w.MA.XX.CTH.23HS w.MA.XX.LCSA.23HS w.MA.XX.REEWAM.23HS w.MA.XX.REEWAM.23HS							
Methods of Instruction		 Lecture Interactive Instruction Application Tasks Case Studies Project Work 		Social Settings Used: Group Work				
Digita	l Resources	§ Teaching Materials§ Case Studies (with K						
Type	of Instruction	Classroom Instruction		dv	Autono	mous Self-Stu	ıdv	
''	Lecture	46		_				
	Excercise		-	_				
	Project Work		-	10 h				
	Seminar		_	-				
	Total	46	h	10 h			124 h	
Perfo	rmance Assessment		···	<u></u>				
	End-of-module exam	Form		Length (min.)		Weighting		
	_	_				_		
	Permitted	- -						
Resources								
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	Others		ssessment	essment Length (mi		n.) Weighting		
	Talk/oral presentation	Grade		20		20,00 %		
	Written Assignment	G	rade	-		80,00 %		
		ed to revise and resubmit	revise and resubmit performance assessment tasks.					
Class	room Attendance	Mandatory Attendance:						
Requirement								
Language of		English						
Instruction/Examination		-						
	oulsory Reading	-						
Recommended Reading		-						
0	nents	_						