

Valid for 2023.FS

<b>Module Name: Managing Bioeconomy</b>	
Module Code	w.BA.XX.WPM-MBE.XX
Module Description	The global economy faces multiple challenges related to environmental sustainability such as climate change, loss of biodiversity, depletion of resources, population growth, and overconsumption. Nearly 60 countries around the world are pursuing bioeconomy-related policies, which presents a significant potential for sustainable economic growth. This elective module provides basic knowledge of the bioeconomy, related management tools, and company success stories from various economic sectors. Students learn to identify drivers of and barriers to bioeconomy. They gain basic knowledge of technological enablers and can identify the potential of bioenergy and biobased products. They also learn how to quantify the potential of bioeconomy in selected focus countries.
Program and Specialization	International Management
Legal Framework	Academic Regulations BSc dated 29.01.2009, for the degree programs in Business Administration, International Management, Business Information Technology, Business Law, Business Law and Applied Law, first adopted on 12.05.2009
Module Category	<b>Module Type:</b> Compulsory Elective
	<b>Program Phase:</b> Main Study Period
ECTS	3
Organizational Unit	W Abteilung International Business
Module Coordinator	Marc Schmid (shmd)
Deputy Module Coordinator	Grégoire Meylan (melg)
Prerequisite Knowledge	None.
Contribution to Program Learning Goals (Affected by Module)	<ul style="list-style-type: none"> <li>§ Professional Competence</li> <li>§ Methodological Competence</li> <li>§ Social Competence</li> <li>§ Self-Competence</li> </ul>
Contribution to Program Learning Objectives	<ul style="list-style-type: none"> <li>Professional Competence <ul style="list-style-type: none"> <li>§ Knowing and Understanding Content of Theoretical and Practical Relevance</li> <li>§ Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance</li> <li>§ Evaluate Content of Theoretical and Practical Relevance</li> </ul> </li> <li>Methodological Competence <ul style="list-style-type: none"> <li>§ Problem-Solving &amp; Critical Thinking</li> <li>§ Scientific Methodology</li> <li>§ Work Methods, Techniques, and Procedures</li> <li>§ Information Literacy</li> <li>§ Creativity &amp; Innovation</li> </ul> </li> <li>Social Competence <ul style="list-style-type: none"> <li>§ Written Communication</li> <li>§ Oral Communication</li> <li>§ Teamwork &amp; Conflict Management</li> <li>§ Intercultural Insight &amp; Ability to Change Perspective</li> </ul> </li> <li>Self-Competence <ul style="list-style-type: none"> <li>§ Self-Management &amp; Self-Reflection</li> <li>§ Ethical &amp; Social Responsibility</li> <li>§ Learning &amp; Change</li> </ul> </li> </ul>
Module Learning Objectives	<ul style="list-style-type: none"> <li>Students... <ul style="list-style-type: none"> <li>§ Understand the concept of bioeconomy and its contribution to sustainable development.</li> <li>§ Understand the market-based, political, legal, and societal drivers for a bioeconomy.</li> <li>§ Critically evaluate the opportunities and risks of a bioeconomy.</li> <li>§ Understand the dialog on the European bioeconomy ecosystem involving enterprises, clusters, networks, agencies, funders, research, and innovation.</li> <li>§ Define the potential of bioenergy and biobased products.</li> <li>§ Distinguish the practices of a forest-based bioeconomy, textile products, and urban bioeconomy.</li> <li>§ Analyze bioeconomy potential for a country and present findings.</li> </ul> </li> </ul>

Module Content	§ Introduction to module. Bioeconomy concept & drivers. § The business case for bioeconomy. § Feedstock sustainability & trade offs. § International bioeconomy stakeholders. § Standard valorization technologies & biorefinery. § Bioenergy. § Biobased products. § Forest-based bioeconomy. § Textiles & textile products. § Urban bioeconomy. § Field trip. § International case study: Country Focus Workshop I. § International case study: Country Focus Workshop II. § International case study: Presentations.		
Links to other modules	The content of this module is linked to the following modules: w.BA.XX.2MCE.XX w.BA.XX.WPM-BCC.XX		
Methods of Instruction	§ Lecture § Application Tasks § Case Studies § Problem-Oriented Teaching § Project Work	<b>Social Settings Used:</b> § Individual Work § Pair Work	
Digital Resources	§ Teaching Videos § Teaching Materials § Practice and Application Exercises (with Key) § Case Studies (with Key) § Field trip.		
Type of Instruction	<b>Classroom Instruction</b>	<b>Guided Self-Study</b>	<b>Autonomous Self-Study</b>
	Large Class	30 h	10 h
	Small Class	-	-
	Group Instruction	10 h	10 h
	Practical Work	-	-
	Seminar	-	-
	<b>Total</b>	<b>40 h</b>	<b>20 h</b>
			<b>30 h</b>
Performance Assessment			
	<b>End-of-module exam</b>	<b>Form</b>	<b>Length (min.)</b>
	-	-	-
	<b>Permitted Resources</b>	-	-
	<b>Others</b>	<b>Assessment</b>	<b>Length (min.)</b>
	Field trip	Pass/Fail	-
	Written Assignment	Grade	-
	Talk/oral presentation	Grade	20
			50,00 %
			50,00 %
Classroom Attendance Requirement	Mandatory Attendance: 80%		
Language of Instruction/Examination	English		
Compulsory Reading	-		
Recommended Reading	§ WBCSD. (2019). CEO Guide to the Circular Bioeconomy. Geneva: World Business Council for Sustainable Development (WBCSD). § European Commission, Directorate-General for Research and Innovation, Bioeconomy: the European way to use our natural resources: action plan 2018, Publications Office, 2019, <a href="https://data.europa.eu/doi/10.2777/79401">https://data.europa.eu/doi/10.2777/79401</a> § El-Chichakli, B., von Braun, J., Lang, C. et al. Policy: Five cornerstones of a global bioeconomy. Nature 535, 221–223 (2016). <a href="https://doi.org/10.1038/535221a">https://doi.org/10.1038/535221a</a> . § Aguilar, A., Wohlgemuth, R., Twardowski, T. Perspectives on bioeconomy. New Biotechnology, Volume 40, Part A, (2018). <a href="https://doi.org/10.1016/j.nbt.2017.06.012">https://doi.org/10.1016/j.nbt.2017.06.012</a> .		
Comments	-		