

Valid from 2025.HS

Module description: Innovation Ecosystems	
Module Code	w.MA.XX.IECO.20HS
ECTS Credits	6
Language of Instruction/Examination	English
Module Description	<p>Societal challenges are intrinsically far-reaching and complex, requiring innovative solutions that go beyond a single organization. Industry, science, government, and civil society representatives need to work together to address them. These collaborations not only require experts with an entrepreneurial mindset willing to share, develop and experiment together with others but also specific analytical skills and knowledge of appropriate analysis, management and evaluation concepts. This module provides an in-depth understanding of cross-actor innovation, its barriers, and its supporting mechanisms. Students develop the ability to analyze and manage ecosystems, and learn how to shape or support collaboration and co-creation processes in an innovation-oriented environment. In particular, this involves the ability to take on a systemic view of an innovation challenge, as well as to change perspectives between actors in order to facilitate innovation processes adequately. In addition, students will become familiar with concepts such as entrepreneurial ecosystems, innovation networks, co-creation, impact evaluation and transitions theory.</p>
Organizational Unit	Institut für Innovation&Entrepreneurship
Module Coordinator	Claudio Cometta
Deputy Module Coordinator	Devon Wemyss
Program and Specialization	<ul style="list-style-type: none"> <li>• Business Administration - Specialization in Innovation and Entrepreneurship</li> </ul>
Legal Framework	Academic Regulations MSc in Business Administration dated 04.06.2009, Appendix to the Academic Regulations for the degree program in Business Administration (Innovation and Entrepreneurship), first adopted on 22.09.2019
Module Category	<b>Module Type</b> Compulsory
Prerequisite Knowledge	None
Contribution to Program Learning Objectives (by the concerned 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	<p><b>Professional Competence</b></p> <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> <p><b>Methodological Competence</b></p> <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> <p><b>Social Competence</b></p> <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> <p><b>Self-Competence</b></p> <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>

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Module Learning Objectives	Students... <ul style="list-style-type: none"><li>• are able to apply and reflect common theories and methods for the analysis of innovation (eco-)systems and cross-actor innovation.</li><li>• can assess the key characteristics of societal challenges using a multi-level perspective (MLP).</li><li>• understand and navigate the complex dynamics of addressing grand societal challenges.</li><li>• know how to apply different approaches to design and evaluate effective cross-actor innovation initiatives that address societal challenges.</li><li>• identify a fitting context and approach for the effective implementation of a co-creation process.</li></ul>																																	
Module Content	<ul style="list-style-type: none"><li>• Introduction to concepts and theories of innovation ecosystems.</li><li>• Introduction to the multi-level perspective (MLP) concept providing a systemic perspective on innovation.</li><li>• Introduction to multi-system transitions and methods to deal with complex innovation systems.</li><li>• Context, potential, and approaches of collaboration in addressing complex challenges.</li><li>• Structure and implementation of a co-creation process.</li><li>• Overview of different frameworks to design and evaluate cross-actor innovation initiatives with respect to their societal impact.</li><li>• Focus on approaches by means of case studies.</li></ul>																																	
Links to other modules	This module is linked to the following modules: <ul style="list-style-type: none"><li>• w.MA.XX.VLAB3.20HS</li><li>• w.MA.XX.IES.20HS</li><li>• w.MA.XX.SEPS.20HS</li><li>• w.MA.XX.ELS.20HS</li><li>• w.MA.XX.IMDT.20HS</li><li>• w.MA.XX.SMI.20HS</li></ul>																																	
Digital Learning Resources	<ul style="list-style-type: none"><li>• Teaching Materials</li><li>• Case Studies (with Key)</li></ul>																																	
Methods of Instruction	<ul style="list-style-type: none"><li>• Lecture</li><li>• Literature Review</li><li>• Interactive Instruction</li><li>• Problem-Oriented Teaching</li><li>• Case Studies</li></ul>		Social Settings Used: <ul style="list-style-type: none"><li>• Group Work</li><li>• Individual Work</li></ul>																															
Type of Instruction	<table><tr><th></th><th>Classroom Instruction</th><th>Guided Self-Study</th><th colspan="2">Autonomous Self-Study</th></tr><tr><td>Lecture</td><td>28 h</td><td>-</td><td colspan="2"></td></tr><tr><td>Excercise</td><td>28 h</td><td>-</td><td colspan="2"></td></tr><tr><td>Project Work</td><td>-</td><td>24 h</td><td colspan="2"></td></tr><tr><td>Seminar</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Total</td><td>56 h</td><td>24 h</td><td colspan="2">100 h</td></tr></table>					Classroom Instruction	Guided Self-Study	Autonomous Self-Study		Lecture	28 h	-			Excercise	28 h	-			Project Work	-	24 h			Seminar	-	-			Total	56 h	24 h	100 h	
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Performance Assessment	<table><tr><th colspan="2">End-of-module exam</th><th>Form</th><th>Length (min.)</th><th>Weighting</th></tr><tr><td colspan="2">Oral exam</td><td></td><td>15</td><td>75.00</td></tr><tr><td colspan="2">Permitted Resources</td><td colspan="3"></td></tr></table> <table><tr><th>Others</th><th>Assessment</th><th>Format</th><th>Length (min.)</th><th>Weighting</th></tr><tr><td>Written assignment with oral presentation</td><td>Grade</td><td>Gruppenarbeit</td><td>45</td><td>25.00</td></tr></table>				End-of-module exam		Form	Length (min.)	Weighting	Oral exam			15	75.00	Permitted Resources					Others	Assessment	Format	Length (min.)	Weighting	Written assignment with oral presentation	Grade	Gruppenarbeit	45	25.00					
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Classroom Attendance Requirement	Other  Attendance at group presentation is compulsory.																																	

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<b>Compulsory Reading</b>	<ul style="list-style-type: none"><li>• Lee, Sang M., David L. Olson, and Silvana Trimi. 2012. "Co-Innovation: Convergenomics, Collaboration, and Co-Creation for Organizational Values." <i>Management Decision</i> 50 (5): 817–31.</li><li>• Jütting, M. (2020) Exploring Mission-Oriented Innovation Ecosystems for Sustainability: Towards a Literature-Based Typology. <i>Sustainability</i>, 12, 6677.</li><li>• Geels, F. W. (2011). The multi-level perspective on sustainability transitions: Responses to seven criticisms. <i>Environmental innovation and societal transitions</i>, 1(1), 24-40.</li><li>• Andersen, A. &amp; Geels, F. (2023). Multi-system dynamics and the speed of net-zero transitions: Identifying causal processes related to technologies, actors, and institutions. <i>Energy Research &amp; Social Science</i>, (102), 103178.</li></ul>
<b>Recommended Reading</b>	<ul style="list-style-type: none"><li>• To be provided via Moodle.</li></ul>
<b>Comments</b>	Failure to participate actively in producing the written assignment or failure to participate in presentation or discussion will result in the deduction of up to one grade point from the grade for the performance assessment "written assignment and oral presentation" of the student in question.