

Valid for 2022-23-24.HS

Module name: Strategies in Sustainability	
Module Code	n.MA.RE.SIS.23HS
Module Description	This module aims to provide a comprehensive overview of sustainability and its relevance to the field of real estate and facility management. Achievement of this competence demonstrates a comprehensive understanding of the theory of sustainability in its political and legal framework, together with an understanding of the economic, social and environmental context and the tools and techniques used to measure options for action. Current methods used in sustainability planning, certification, monitoring, and reporting, as well as methods for procurement and quality assurance of construction and FM services are presented and analysed. The advantages and disadvantages of these methods are identified and their application to specific strategies are explored.
Programme and Specialisation	Master of Science in Real Estate & Facility Management (MSc REFM)
Legal Framework	Academic Regulations for the Master's Programme MSc REFM dated 01.08.2024, Appendix to the Academic Regulations for the Master's Programme, first adopted on 30.08.2011
Module Category	Module Type: Compulsory
ECTS	5
Organisational Unit	N Institute for Facility Management (IFM)
Module Coordinator	Prof. Dr. Matthias Haase (haam)
Deputy Module Coordinator	Prof. Dr. Markus Hubbuch (hubb)
Prerequisite Knowledge	Sustainable Finance and Governance; Digital Transformation, PropTech Innovation and Entrepreneurship,
Contribution to Programme Learning Goals (Affected by Module)	<ul style="list-style-type: none"> <li>■ Specialised expertise</li> <li>■ Methodological skills</li> <li>■ Interpersonal skills</li> <li>■ Self-competence</li> </ul>
Contribution to Programme Learning Objectives	<p>Specialised expertise</p> <ul style="list-style-type: none"> <li>■ Understanding &amp; knowledge of theory &amp; practice-oriented content</li> <li>■ Application, analysis, and linking of theory &amp; practice-oriented content</li> <li>■ Evaluation of theory &amp; practice-oriented content</li> </ul> <p>Methodological competence</p> <ul style="list-style-type: none"> <li>■ Problem solving &amp; critical thinking</li> <li>■ Scientific methods</li> <li>■ Working methods, techniques &amp; procedures</li> <li>■ Information literacy</li> <li>■ Creativity &amp; innovation</li> </ul> <p>Social competence</p> <ul style="list-style-type: none"> <li>■ Written communication</li> <li>■ Oral communication</li> <li>■ Cooperation in a team &amp; conflict resolution</li> <li>■ Interculturalism &amp; empathy</li> </ul> <p>Self-competence</p> <ul style="list-style-type: none"> <li>■ Self-management &amp; self-reflection</li> <li>■ Ethical &amp; social responsibility</li> <li>■ Learning &amp; transformation</li> </ul>
Module Learning Objectives	<p>Students</p> <ul style="list-style-type: none"> <li>■ can define and proficiently utilise key terms relevant to environmental, social, and economic sustainability.</li> <li>■ can explain why and how sustainability seeks to reconcile economic, environmental and social objectives at global, national and local levels in relation to land, property and the built environment.</li> <li>■ can describe the key principles of energy-efficient and carbon-neutral buildings, and the use of renewable energy, and can specify the appropriate requirements for them and evaluate them over their life cycle.</li> <li>■ can transform abstract sustainability concepts into concrete sustainability strategies, goals, and measures in a real estate context, and can identify the economic advantages and disadvantages of different aspects of these strategies.</li> <li>■ can define or suggest concrete goals and measures for improving sustainability in the building sector and can represent clients in the construction of new buildings or in renovations.</li> <li>■ can identify and reflect on tools and methods that can be used to plan, implement, and manage the implementation of specific sustainability strategies.</li> <li>■ are familiar with and understand the informative value of eco-labels and environmental product declarations for building products and can differentiate between them.</li> <li>■ can identify the challenges associated with product design and can outline suitable approaches for management.</li> </ul>

	■ can apply ESG Manager knowledge and can obtain direct access to the examination for the 'Swiss ESG Manager: in the SGNI' certificate after successfully completing the module.		
Module Content	<ul style="list-style-type: none"><li>■ Sectors influencing the sustainability of buildings, neighbourhoods, and cities over their life cycle with a focus on the transformation of existing structures</li><li>■ Converting abstract sustainability concepts into concrete sustainability and investment strategies, and developing appropriate (quantifiable) targets and measures in a real estate context</li><li>■ Economic advantages and disadvantages as well as conflicting goals and synergies arising from different sustainability objectives</li><li>■ Sustainability assessment systems and criteria</li><li>■ Sustainability planning, certification, implementation, monitoring and reporting concepts and tools</li><li>■ Methods for sustainably acquiring and ensuring the quality of real estate services throughout the entire life cycle</li><li>■ Potential and limitations of tools, instruments, and methods from a research perspective</li></ul>		
Links to Other Modules	The content of this module is linked to the following modules: Circular Economy Management Built Environment Transformation Master's Thesis		
Methods of Instruction	<ul style="list-style-type: none"><li>■ Lecture</li><li>■ Interactive instruction</li><li>■ Application tasks</li><li>■ Case studies</li><li>■ Exercises</li><li>■ Research-based learning</li><li>■ Literature review</li></ul>	<b>Social Settings Used</b>	
Digital Resources	<ul style="list-style-type: none"><li>■ Reader</li><li>■ Teaching videos</li><li>■ Practice and application exercises (with answers)</li><li>■ Case studies (with answers)</li><li>■ Livestream lectures</li><li>■ Laptop with Windows operating system</li></ul>		
Type of Instruction	<b>Classroom Instruction</b>	<b>Guided Self-Study</b>	<b>Autonomous Self-Study</b>
Lecture	36 h	-	
Practical work	-	16 h	
Project work	-	-	
Seminar	-	-	
<b>Total</b>	<b>36 h</b>	<b>16 h</b>	<b>98 h</b>
Double teaching may occur. Double teaching is not included in the time planning.			
Performance Assessment			
For the following performance assessments, resubmission, respectively repeat exam, is not possible.			
<b>End-of-module exam</b>	<b>Form</b>	<b>Length (min.)</b>	<b>Weighting</b>
Exam	Written individual work	60	100.00%
<b>Permitted resources</b>	-	-	
<b>Others</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>
-	-	-	-
Classroom Attendance Requirement	Mandatory attendance: none but recommended.		
Language of Instruction/Examination	English. For students from other German-language study programmes, the examination can be held in German.		
Compulsory Reading	See the provided reading list		
Recommended Reading	See the provided reading list		
Comments	Adjustments to the module or assessments may occur at short notice.		