

Modul Cover Sheet

Study Programme	MSc in Facility Management	
Study Year	2018_19	
Module	Systems Engineering and Project Management	
Code	n.MA.FM.SEPM.12FS	
Status	Compulsory Module	
*Type	C X	R M
ECTS-Credits	4	
Workload	120	
Regulations applications	<p>RPO vom 29. Januar 2008, Studienordnung für den Masterstudiengang MSc in Facility Management vom 24. März 2011, Anhang für den Masterstudiengang MSc in Facility Management vom 30. August 2011, angepasst am 14.4.2015 <i>(Non-binding translation: General Academic Regulations for Bachelor's and Master's degree programmes at the Zurich University of Applied Sciences on 29 January 2008, Academic Regulations for the Master's programme in Facility Management at the Zurich University of Applied Sciences on 24 March 2011, Annexe to the Academic Regulations Master of Science in Facility Management on 30 August 2011, amended on 14 April 2015)</i></p>	
Module Coordinator	Dr. Frank Wadenpohl	
Telephone / Email	+41 58 934 53 36	wade@zhaw.ch
Comments		

*Typus (Type)	C Core Course/Module (Kerngebiet eines Studienprogramms)
	R Related Course/Module (Unterstützung des Kerngebiets mit Vermittlung von Vor- oder Zusatzkenntnissen)
	M Minor Course/Module (Wahl- oder Ergänzungskurs/-modul)

Consecutive Sheet

Study Programme	MSc in Facility Management				
Study Year	2018_19				
Course	Systems Engineering and Project Management				
Code	n.MA.FM.SEPM.12FS.V				
Module	Systems Engineering and Project Management				
Status	Compulsory Course				
*Type	C	X	R	M	
Regulations applicable	<p>RPO vom 29. Januar 2008, Studienordnung für den Masterstudiengang MSc in Facility Management vom 24. März 2011, Anhang für den Masterstudiengang MSc in Facility Management vom 30. August 2011, angepasst am 14.4.2015 <i>(Non-binding translation: General Academic Regulations for Bachelor's and Master's degree programmes at the Zurich University of Applied Sciences on 29 January 2008, Academic Regulations for the Master's programme in Facility Management at the Zurich University of Applied Sciences on 24 March 2011, Annexe to the Academic Regulations Master of Science in Facility Management on 30 August 2011, amended on 14 April 2015)</i></p>				
Total Workload (hours)					
	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.
<i>Lectures</i>		50			
<i>Coached Self-study</i>					
<i>Autonomous Self-study</i>		70			
<i>Total Workload</i>		120			
Course Coordinator	Dr. Frank Wadenpohl				
Telephone / Email	+41 58 934 53 36		frank.wadenpohl@zhaw.ch		
Lecturer(s) Speaker(s) Associate(s)	Dr. Frank Wadenpohl				
Learning Outcomes and Competencies	<p>Upon completion of this module students will have critical knowledge and understanding as follows:</p> <p>After the successful completion of this course, the students are able to master complex situations and are able to lead challenging projects. They are skilled in problem-analysis and problem-solving methods. They are able to use project management tools and techniques. They are trained to apply this knowledge in real estate and facility management.</p>				

EUROPEAN CREDIT TRANSFER SYSTEM (ECTS)

Course Content	<p>This course provides the theoretical basis for systemic problem analysis and problem solving at the strategic and tactical level of FM. It focuses on heuristic problem-solving procedures, quantitative assessment methods and hard project management tools as well as on soft factors in projects. Hence, it forms a methodological pre-requisite for any leading position in real estate and facility management.</p> <p>Topics:</p> <ul style="list-style-type: none"> ▪ General systems theory ▪ Man-made systems (physical, organizational and abstract systems) ▪ Problem-solving methods (BWI ETH, University of St. Gallen) ▪ Assessment techniques (economic efficiency, discounted cash flow, cost/benefit analysis, value analysis) ▪ Project management models (body of knowledge) ▪ Project life cycle ▪ Project requirements ▪ Systemic project risk and quality management ▪ Reporting and project controlling ▪ Integrated project controlling ▪ Soft factors in project management ▪ Project closing □
Language of Instruction	English
Expected Attendance	Attendance is expected and strongly recommended. Mandatory attendance on selected dates – the exact dates will be provided at the beginning of the course.
Assessment	<p>Two individual written mid-term exams, duration: 60 minutes each, weight: 25% each. They count for 50 % of the total course grade.</p> <p>Individual written end of term exam, duration: 90 minutes, weight: 50%</p>
Course Materials / References	<p>Lecture notes „Decision Support Methods“</p> <p>Lecture notes „Project Management“</p> <p>Additional literature and case study descriptions to be introduced step by step</p>
Entrance Requirements	
Follow-up Courses	
Comments	