

EUROPEAN CREDIT TRANSFER SYSTEM (ECTS)

Consecutive Sheet

Study Programme	MSc in Facility Management				
Study Year	2018_19				
Course	Ambient Assisted Living				
Code	n.MA.FM.Elec1.15HS				
Module	Elective				
Status	Compulsory Course				
*Type	C	X	R	M	
Regulations applicable	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				
Total Workload (hours)					
	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.
<i>Lectures</i>	20		20		20
<i>Coached Self-study</i>	10		10		10
<i>Autonomous selfstudy</i>	60		60		60
<i>Total Workload</i>	90		90		90
Course Co-ordinator	Prof. Dr. Andrea Kofler				
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Lecturer(s)	Prof. Dr. Andrea Kofler				
Speaker(s)					
Associate(s)	MSc Paul Schmitter				

**Learning Outcomes
and Competencies**

Students will develop an understanding for the complex and changing working environments in the healthcare, focusing care facilities, senior living and hospital at home. They will learn about ambient intelligence and artificial intelligence developments relevant for the FM, have developed an understanding for different aging and service concepts.

Furthermore, students get to know

- the most recent ICT-developments relevant for the Facility Management.
- the European Union funded and supported AAL initiative for a better living in age.
- the different aging facility environments and their distinct characteristics.
- most relevant digitalization and smart living developments (Aml and AI)

Students will critically

- reflect on different interests and needs of stakeholders involved.
- evaluate technological innovations and their capacities to reduce health care costs and social isolation.
- assess system and product relevant information on cost reduction and efficiency.
- discuss digital strategies

Students will learn about

- Aml, AI and AAL systems and products to be implemented in nursing and care facilities, in the hospital at home.
- best practice examples.
- the integration of Aml solutions and integrated service provision for a better living.

They will be able to recommend and will know how to integrate Aml solutions (Smart Home components and AAL-Technologies) based on an evaluation scheme that is developed in the course.

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Course Content	<p>Facility Management professionals in healthcare, nursing and seniors living facilities work in complex environments where data is produced on a 7/24 bases. Besides maintenance, performance, risk and supply service management is it the knowledge of information and communication technology (ICT), the latter integrate in the core domains, which becomes more and more important. Facility Managers not only need to know the sources of data and information, they need to know the various domains and their specific realities. Most important, there is a necessity to know the systems as well as to anticipate developments.</p> <p>Recent developments stress the integration of ambient intelligence (Aml) solutions for these complex environments. These are systems that are sensitive and responsive to the presence of people. This principle is underlying smart home technology, health monitoring systems as well as technology developed to assist people in their daily lives and activities (ADL).</p> <p>The course focuses ambient intelligence environments for nursing and seniors living facilities and reflects on AAL-technologies and products. The latter has been developed to support elderly people in their attempt to age at home. However, these assistive technologies can also be introduced to care facilities for the elderly to guarantee their safety, well-being and comfort as well as independence for its dwellers and patients.</p>
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	Written Report (70%) and Presentation (30%)
Course Materials / References	Students will be provided with selected texts at the beginning of the semester.
Entrance Requirements	Case Study 1, Advanced FM, Managerial Skills
Follow-up Courses	Master Thesis
Comments	Students are expected to acquire the theoretical background in self-study mode. In class, more in-depth knowledge will be developed by working on case studies, practice reports and exercises.

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