Study regulations of the
FH Bachelor Degree

Facility &
Real Estate Management

To obtain the academic degree

Bachelor of Arts in Business,
abbreviated B.A.

as an appendix to the statutes of the FH Kufstein Tirol

Organizational form: part-time
Duration: 6 Semesters
Scope: 180 ECTS
Places for beginners per academic year: 25 part-time

Version 1
Decided by the FH Faculty Council on Mai 3rd, 2023

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1 JOB PROFILES

1.1 Occupational fields

There are a number of areas of application and fields of activity for graduates of the Bachelor degree course in operational facility and real estate management. The scope and complexity of the activities require the integration of methods and instruments from very different fields of knowledge (e.g. Real Estate Business, facility management, engineering sciences, law, economics, social skills, foreign languages, information and communication sciences). The field of activity consists of all decision-preparing and executive activities that deal with the planning, implementation, organization, control, monitoring, procurement and management as well as utilization of object-related infrastructures. The interdisciplinary design of this qualification profile enables students to operate successfully in the corresponding fields of activity.

The following fields of activity describe possible fields of application, which are based on the life cycle of a property and the resulting operational and practical requirements.

New construction, conversion and renovation planning:
The graduates are entrusted with the subject-specific preparation of decisions and, above all, with the implementation of decisions that have been made. In this area, they are in particular demand by consulting firms, architectural and engineering offices, general planners and construction companies, the public sector and building owners. In contrast to the original project development activity, the perspective of the user is placed in the foreground here.

Space management:
The graduates contribute substantially to the analysis and optimization of the operational sequences and processes through appropriate space concepts, organization and reorganizations. Ergonomics and workplace design are of great importance. They are primarily employed by companies with a predominant portfolio of office and commercial properties. In addition to simple concepts, they are particularly involved in the implementation and monitoring of such concepts.

Real estate management and building operation:
Among the tasks of real estate and facility management at individual property level are real estate management (building management) including contract management and performance measurement. In this context, the classic management activity of a property manager of residential and commercial properties is of particular importance. The operational facility and real estate manager implements the concept of building operation, taking into account aspects of economy, functionality, security and the requirements of different users. Among other things, the analysis of potential savings plays an important role. Facility & real estate management is particularly important for companies that place high demands on their technical facilities (e.g. hospitals, clinics, nursing homes, museums, art galleries, industrial companies).

Maintenance:
The integration of economic and technical training content enables the facility and real estate manager to plan and coordinate inspection, maintenance and repair. As a result, they play an important role both in service companies in this area and in companies in which the maintenance concept is applied.

Facility services:

The graduates are responsible in companies for the implementation of the given decisions in the area of facility services. They perform this task for external service providers as well as in the internal corporate function. In addition, they are able to critically reflect on the existing scope and need of services, develop proposals as a basis for new decisions and, if necessary, organize and adapt them.

Sustainability management:
Sustainability management in real estate is becoming increasingly important, particularly due to the high savings potential. By taking a holistic life cycle approach, the facility and real estate manager can uncover these potentials and make them available to the company. In this function, they are important for consultants as well as for real estate management and facility management companies.

Real estate project development and property development:
Graduates are involved in the development of yield- and value-enhancing concepts for developed and undeveloped properties, usually taking into account different usage options. Fundamental market and location analyses as well as profitability calculations of individual construction measures are part of their fields of activity. In these areas, the operational facility and real estate manager is in demand at consulting firms, architectural and engineering offices, general planners and construction companies, the public sector, at the client end and especially at property developers and project developers. The focus here is mainly on simple, executive tasks at the operational level.

Property valuation:
Graduates are able to value individual properties of the classic types of use (without special properties), especially for marketing purposes. Furthermore, they are entrusted with the preparation of basic information for more extensive valuation projects.

Marketing, utilization and leasing:
The facility and real estate manager works at the individual property level within the framework of real estate brokerage and exploitation, i.e. real estate marketing. They support the revenue-optimized utilization of non-essential real estate or the sale of property development measures as well as the sales activities of a real estate agency. The graduates also cover the operative area of real estate leasing.

Employment opportunities for graduates in company classes:

- Industrial companies
- Banks, insurance companies
- Municipal administration (municipality, state, federal government)
- Non-profit institutions and foundations
- Educational institutions such as schools, technical colleges, universities
- Consulting company focusing on the real estate sector
- Architectural and engineering offices, general planners, construction companies
- Management companies, real estate trustees such as brokers, administrators, property developers and project developers as well as other service providers in the real estate industry
- Housing companies, housing developers
- Service provider for facility services
- Service companies from various industries, e.g.:
    - Clinics, hospitals, nursing homes and old people's homes
    - Airports, airlines, railway stations, logistics centers
    - Shopping centers and adventure parks
    - Companies for event management
    - Utility and waste management companies
    - Technology, trade, science, innovation centers

- Television and radio stations
- Tourism enterprises
- Retail chains

Differentiation to the consecutive Master's degree Facility & Real Estate Management:
While the graduates of the consecutive Master's degree in Facility & Real Estate Management are active in the management of the above-mentioned companies and thus develop concepts and strategies as well as take on tasks for the CEO Managing Director, the work area of the graduates of the Bachelor degree in Facility & Real Estate Management is in the operative processing of Facility and Real Estate Management tasks.

The Bachelor course takes this into account by imparting basic and core competencies oriented to the operative business areas. In addition, the students receive comprehensive complementary competences for their professional activities. In the Bachelor course, they acquire competences to formulate arguments and substantiate them professionally as well as to solve problems. They learn the ability to collect and interpret relevant data in order to support assessments and take into account relevant social, academic and ethical concerns. Students will learn how to communicate information, ideas, problems and solutions to both experts and laypersons. In the Bachelor course, they develop the learning strategies they need to continue their studies with maximum autonomy.

1.2 Qualification profile

The qualification goals and learning outcomes of the Bachelor degree program Facility & Real Estate Management correspond both to the academic and vocational requirements and to the ISCED level 0788[1] International Standard (Classification of Education). The contents conveyed qualify the graduates for the professional fields of activity mentioned in the previous chapters.

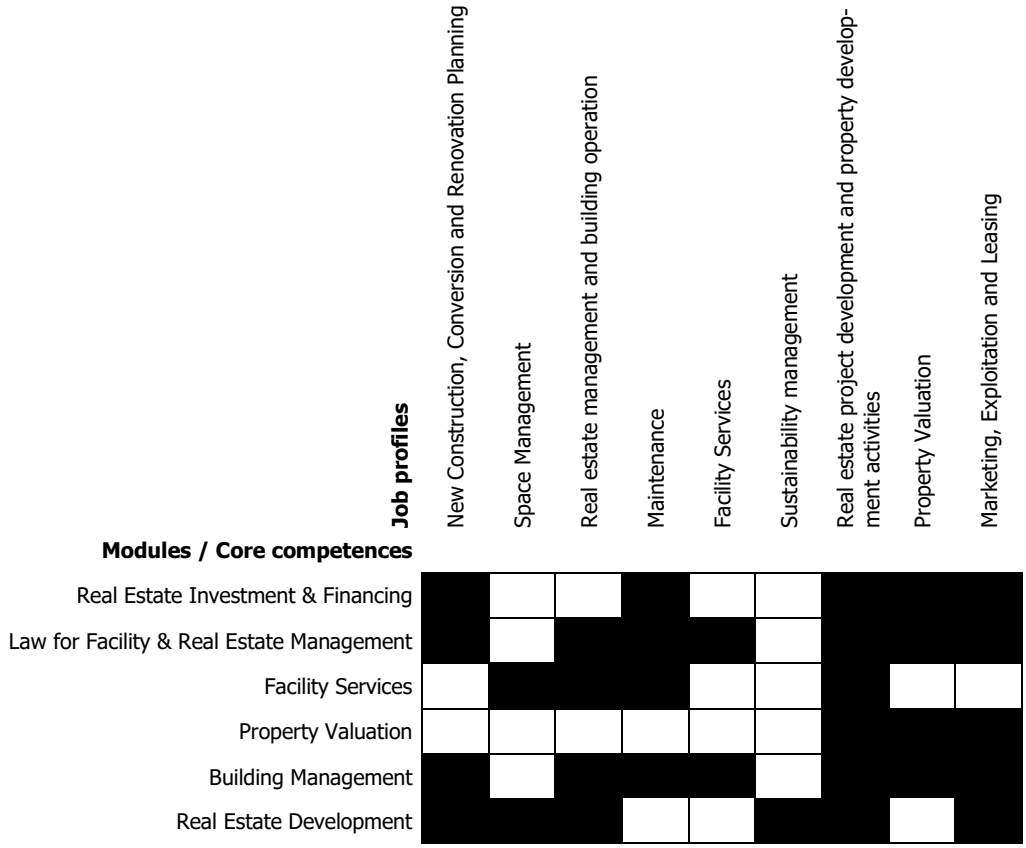
The main focus of the course lies in the fundamental technical, economic and legal contexts of the industry as well as in imparting knowledge of quantitative and qualitative approaches in the field of academic methods for the implementation and application of business and academic problems, analyses and research work. In particular, methods and concepts that are generally necessary for solving problems in the real estate sector and in the facility sector are dealt with. This includes knowledge of real estate development and valuation, as well as facility services and building management. In addition, there are complementary skills in the modules Social Skills and Foreign Languages. The application of specialist knowledge and feedback from current practice and research takes place in the practical transfer module with practical projects and the professional internship. Integration and transfer from the field of research takes place within the framework of the module Scientific & Empirical Methods on the one hand and the two modules Practice Project I/II on the other. The following modules and courses are intended to achieve the core competencies in facility management and the real estate industry:

- Real Estate Investment & Financing
- Law for Facility & Real Estate Management
- Facility Services
- Property Valuation
- Building Management

[1] *Example 4: A program consisting of 40% engineering (071), 30 % business (041) and 30 % languages (023) should be classified as 0788 ("Inter-disciplinary programs and qualifications involving engineering, manufacturing and construction") as no field predominates but 07 is the leading broad field. If engineering and business were equally important and greater than languages (e.g. 40 %, 40 % and 2 0%), the program would be classified as either 0788 or 0488 depending on which program, engineering (071) or business (041), is listed first in the program title (or, if not in the title, in the curriculum or syllabus).*

- Real Estate Development

The core competences taught in the study course Facility & Real Estate Management are shown in the following table in connection with the job descriptions for which they appear necessary (black fields).



The following table shows the respective occupational fields of activity and their defined tasks as well as the associated competences. The corresponding modules are assigned to the listed competences.

Competence descriptions according to occupational fields of activity

Occupational field of activity	Task	Competence description	Competence allocation	Curriculum/modules
New Construction, Conversion and Renovation Planning	Preparation of decisions on construction projects	Can take measurements and make simple building designs	Professional-Academic Competencies/ Technology	Civil Engineering II
		Knowledge of structural requirements	Professional-Academic Competencies/ Technology	Civil Engineering II
		Can incorporate technical building requirements into a planned project	Professional-Academic Competencies/ Technology	Technical Building Facilities II
		Can apply methods of investment calculation and financing and their calculations	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing

Space Management	Analysis and optimization of workflows and processes	Know the processes of facility management and can analyze them	Professional-Academic Competencies/ Technology	Fundamentals of Facility Management
	Design and redesign of workplaces	Can analyze design types and rules	Professional-Academic Competencies/ Technology	Real Estate Development
		Can create occupancy plans and area concepts	Professional-Academic Competencies/ Technology	Facility Services
Real estate management and building operation	Tasks of building management	Can manage properties	Professional-Academic Competencies/ Technology	Building Management
	Tasks of the property management	Know the activities of the property management	Professional-Academic Competencies/ Technology	Building Management
	Analysis of optimization potentials	Understand technical requirements and work out solutions	Professional-Academic Competencies/ Technology	Technical Building Facilities II
		Can measure user satisfaction	Professional-Academic Competencies/ Technology	Fundamentals of Facility Management
		Can collect and evaluate key performance indicators for measuring performance	Professional-Academic Competencies/ Technology	Building Management
Maintenance	Maintenance measures	Understanding of maintenance (inspection, servicing and repair)	Professional-Academic Competencies/ Technology	Fundamentals of Facility Management
	Planning and coordination of measures	Description of qualities and services	Professional-Academic Competencies/ Technology	Facility Services
		Understanding of materials and designs	Professional-Academic Competencies/ Technology	Civil Engineering I
		Understanding of technical building equipment	Professional-Academic Competencies/ Technology	Building Services Engineering I
		Understanding maintenance strategies	Professional-Academic Competencies/ Technology	Facility Services
		Identifying legal areas of facility management	Professional-technical competences/ law	Law for Facility & Real Estate Management
Facility Services	Planning and coordination of services	Defining service quality levels	Professional-Academic Competencies/ Technology	Facility Services
	Occupancy planning	Analyzing use of space	Professional-Academic Competencies/ Technology	Facility Services
		Describing relocation processes	Professional-Academic Competencies/ Technology	Facility Services
	Cleaning planning	Calculating cleaning services	Professional-Academic Competencies/ Technology	Facility Services

	Optimization of energy consumption	Can create energy audits	Professional-Academic Competencies/ Technology	Facility Services
	Software as support	Know CAFM implementations	Professional-Academic Competencies/ Technology	Facility Services
Sustainability management	Energy use and energy saving	Can create technical solutions for buildings (heating, cooling and ventilation)	Professional-Academic Competencies/ Technology	Technical Building Facilities I
		Can create technical building solutions (sanitary and conveyor systems)	Professional-Academic Competencies/ Technology	Technical Building Facilities II
		Know the fundamentals of building physics	Professional-Academic Competencies/ Technology	Civil Engineering I
		Can check and evaluate component superstructures	Professional-Academic Competencies/ Technology	Civil Engineering II
	Lifecycle assessment	Knowledge of principles and effects of sustainability aspects	Professional-Academic Competencies/ Technology	Fundamentals of Facility Management
Real estate project development and property development activities	Preparation of development and feasibility studies	Know public law provisions of building law	Professional-Academic Competencies/ Technology	Real Estate Development
	Legal situation	Know legal regulations (in particular trade regulations, BTVG)	Professional-Academic Competencies/ Economics	Law for Facility & Real Estate Management
	Analysis of sites	Can carry out site analyses	Professional-Academic Competencies/ Technology	Real Estate Development
	Market analysis	Can carry out market analyses	Professional-Academic Competencies/ Economics	Fundamentals of Business Administration & Economics / Real Estate Development
	Creating utilization concepts and design variants	Can create typical designs and component superstructures	Professional-Academic Competencies/ Technology	Civil Engineering II
		Knows design typologies and can create concepts	Professional-Academic Competencies/ Technology	Real Estate Development
	Marketing measures	Know the tools of real estate marketing	Professional-Academic Competencies/ Economics	Fundamentals of Business Administration & Economics / Real Estate Development
	Carry out profitability calculations	Can understand and apply investment calculations	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing
		Know financing models	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing

		Can create profitability analyses	Professional-Academic Competencies/ Economics	Real Estate Development
	Development of overall concepts	Can prepare a feasibility study	personal and social skills	International Facility Management & Real Estate Development
Property valuation	Preparation of information	Know the documents and information regarding properties	Professional-Academic Competencies/ Economics	Fundamentals of the Real Estate Industry
	Valuation of real estate	Can understand and apply investment calculations	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing
		Knowledge of economic interrelationships	Professional-Academic Competencies/ Economics	Selected Topics Economics
		Know the real estate and capital market conditions	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing
		Can apply valuation techniques	Professional-Academic Competencies/ Economics	Property Valuation
Marketing, Exploitation and Leasing	Support in recycling	Understand the fundamentals of marketing	Professional-Academic Competencies/ Economics	Fundamentals of Business Administration & Economics
		Know the real estate and capital market conditions	Professional-Academic Competencies/ Economics	Real Estate Investment & Financing
	Sales activities	Know the tools of real estate marketing	Professional-Academic Competencies/ Economics	Fundamentals of Business Administration & Economics / Real Estate Development
	Property rental	Know the legal areas of the real estate industry	Professional-Academic Competencies/ Economics	Law for Facility & Real Estate Management

The following table shows, as before, the competences and their associated modules, but these tasks, like competences, extend beyond vocational activities and therefore concern all fields of activity.

Competence descriptions for all occupational fields of activity

	Project management	Knows problems and can independently develop solutions in a practical environment	personal and social skills	Practical Project I
		Understands problems and can independently develop solutions in the practical environment as well as in research and development	personal and social skills	Practical Project II
	Communicating results	Can use different forms of communication, presentations, etc.	personal and social skills	Social skills

Concerns all professional fields of activity		Can communicate in a professional environment	personal and social skills	Internship
	Entrepreneurial thinking	Know the contexts of business management	Professional-Academic Competencies/ Economics	Introduction to Business Administration & Economics
	Interdisciplinary work	Can work on projects in interdisciplinary and intercultural teams	Professional-Academic Competencies/ Economics	International Facility Management & Real Estate Development
	Communicating internationally	Ability to communicate in an international environment	personal and social skills	Foreign language I+II+III
	Practical application	Can apply acquired knowledge in practice	personal and social skills	Internship
	Academic approach	Can research and prepare problem areas and findings	personal and social skills	Academic & Empirical Methods
		Know academic methods and their empirical investigations	personal and social skills	Selected Topics on Academic & Empirical Methods
		Can apply academic methods based on own empirical research.	personal and social skills	Bachelor Thesis

2 CURRICULUM

2.1 Curriculum Data

	PT	Comment if applicable
First year of study (YYY/YY_{+1})	2023/24	
Standard duration of study (number of semesters)	6	
Obligatory WSH (Total number for all sem.)	86	
Course weeks per semester (number of weeks)	15	
Obligatory LVS (Total for all sem.)	1.290	
Obligatory ECTS (Total for all sem.)	180	
WS start (Date, comm.: poss. CW)	CW 40	
WS end (Date, comm.: poss. CW)	CW 7	
SS start (Date, comm.: poss. CW)	CW 10	
SS end (Date, comm.: poss. CW)	CW 28	
WS weeks	15	
SS weeks	15	

Obligatory semester abroad (semester specification)	3	-
Course language (specify)	German/English	
Internship (semester information, duration in weeks (at 40 h per week) per semester))	6th semester, 12 weeks	

2.2 Curriculum matrix

The following description of the courses does not include the work involved in supervising Bachelor theses. An expenditure of 0.2 WSH is planned for each supervised work, i.e. for 30 (ft) & 25 (pt) students an additional AWSH expenditure of 11 AWSH, which are incurred in the 6th semester. In total, an AWSH sum of 217.72 AWSH[2] is achieved over all 6 semesters.

Depending on the learning and teaching method, group divisions are necessary within the individual modules. Since these are usually not valid for the entire module, the curriculum matrix gives the mean value of the number of groups, weighted according to the ratio of learning and teaching methods with and without group divisions.

1. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
GFM	Fundamentals of the Real Estate Management	ILV	X		3	1	3	45	GFM	6
GIM	Fundamentals of real estate management	ILV			3	1	3	45	GIM	6
SPR.1	Business English I	ILV			4.5	2	9.0	135.0	SPR.1	6
TEC.1	Construction technology I	ILV	X		3	1	3	45	TEC.1	6
WIS.1	Fundamentals of Facility Management	ILV			3	1	3	45	WIS.1	6
WIS.1	Scientific & empirical methods	ILV			3	1	3	45	WIS.1	6
Total line:					19.5		24.0	360.0		36
Course hours = Total WSH x course weeks					292.5					

2. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
DFMI	Digitization in FM & REM	ILV	X	X	2	1	2	30	DFMI	4
ECO.1	Fundamentals of Business Administration & Economics (E)	ILV		X	4	1	4	60	ECO.1	6
FIN	Real Estate Finance & Investment	ILV		X	2	1	2	30	FIN	4
SPR.2	Business English II	ILV			4.5	2	9.0	135.0	SPR.2	6
TEC.2	construction technology	ILV	X		3	1	3	45	TEC.2	6
VAL.1	Real estate valuation	ILV			2	1	2	30	VAL	4
Total line:					17.5		22.0	330.0		30
Course hours = Total WSH x course weeks					262.5					

[2] Results from 92.86 AWSH (FT) plus 113.86 AWSH (PT) plus 11 AWSH (supervision BA)

3. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
ECO.2	Selected Topics Business Administration	ILV			4	1	4	60	ECO.2	8
SOC	Selected Topics Social Competences & Presentation	ILV			3.5	1	3.5	52.5	SOC	7
VWL	Selected Topics Economics	ILV			5	1	5	75	VWL	10
WIS.2	Selected Topics on Academic & Empirical Methods	ILV			2.5	1	2.5	37.5	WIS.2	5
Total line:					15.0		15.0	225.0		30
Course hours = Total WSH x course weeks					225.0					

4. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
DEV.1	Real Estate Development	ILV	X		4.5	1	4.5	67.5	DEV.1	9
PRX.1	Project Management & Practical Project I	ILV	X		3	2	6	90	PRX.1	6
SER	Facility Services	ILV	X		4.5	1	4.5	67.5	SER	9
TEC.3	Technical Building Facilities I	ILV	X		3	1	3	45	TEC.3	6
Total line:					15.0		18.0	270.0		30
Course hours = Total WSH x course weeks					225.0					

5. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
BEW	Real Estate Management	ILV	X		1.5	1	1.5	22.5	BEW	3
DEV.2	International Facility Management & Real Estate Development - Project & International Week (E)	PT	X	X	5	2	10	150	DEV.2	10
PRX.2	Practice Transfer & Practical Project II	ILV	X		2.5	2	5.0	75.0	PRX.2	5
REC	Law for Facility Management & Real Estate	ILV			3.5	1	3.5	52.5	REC	7
TEC.4	Technical Building Facilities II	ILV	X		2.5	1	2.5	37.5	TEC.4	5
Total line:					15.0		22.5	337.5		30
Course hours = Total WSH x course weeks					225.0					

6. Semester

Course no.	Course title	LV-Typ	T	E	WSH	No. of groups	ASWS	ALVS	MODUL	ECTS
DEV.3	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E)	ILV	X	X	3.5	1	3.5	52.5	DEV.3	6
PRX.3	Internship & Business Personality Development	ILV	X		3	1	3	45	PRX.3	14
WIS.3	Bachelor Thesis Seminar	SE	X		0.5	1	0.5	7.5	WIS.3	10
Total line:					7.0		7.0	105.0		30
Course hours = Total WSH x course weeks					105.0					

Summary curriculum data

Description	WSH	ASWS	ALVS	ECTS
Total number of courses over all semesters	86	105.5	1582.5	180
Total number of courses in 1st year of study	34	43	645	60
Total number of courses in 2nd year of study	30	33	495	60
Total number of courses in 3rd year of study	22	29.5	442.5	60
Total number of technical events over all semesters	44.5			105
Percentage of technical courses over all semesters based on WSH / ECTS	51.74 %			58.33 %
Total number of courses in English over all semesters	16.5			30
Proportion of courses in English over all semesters based on WSH / ECTS	21.43 %			17.86 %
Proportion of eLearning units over all semesters based on WSH / ECTS	28.66 %			32 %

2.3 Module descriptions

Module number:	**Fundamentals Facility Management**	**Scope:**	
GFM		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	1. Semester		
Level	1. Semester: Introduction		
Previous knowledge	1. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Fundamentals of the Real Estate Management /ILV / LV-Nr: GFM / 1.Semester / ECTS: 6 • Krimmling, J., 2013. Facility Management. Strukturen und methodische Instrumente. 4th updated edition. Stuttgart: Fraunhofer IRB Verlag. • Gondring, H. and T. Wagner, 2018. Facility Management: Handbuch für Studium und Praxis. 3rd completely revised edition. Munich: Vahlen • Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Managements. Berlin: Springer Vieweg.		
Acquisition of skills	Fundamentals of the Real Estate Management /ILV / LV-Nr: GFM / 1.Semester / ECTS: 6 The students are able to: • To present the development and history of facility management in an international context and to describe different international views of facility management. • To demonstrate the benefits of facility management and to demonstrate similarities and differences to disciplines such as Corporate Real Estate Management (CREM), real estate management and facility management. • To describe the management approach of facility management • To demonstrate the importance of users in facility management • To define sustainability and describe sustainability aspects influenced by facility management • To explain exemplary processes and models in facility management • To identify essential standards in facility management and to explain their areas of application		
Course contents	Fundamentals of the Real Estate Management /ILV / LV-Nr: GFM / 1.Semester / ECTS: 6 • History of Facility Management in different countries • Definitions and meanings of Facility Management in an international context as well as similarities and differences to other disciplines • Models, processes and tasks in facility management • Terms like service level agreement, key performance indicator, facility management agreement, service • Normative framework in facility management • Definition of sustainability and presentation of sustainability in facility management		
Teaching and learning methods	Fundamentals of the Real Estate Management /ILV / LV-Nr: GFM / 1.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Fundamentals of the Real Estate Management /ILV / LV-Nr: GFM / 1.Semester / ECTS: 6 Written exam		

Module number:	**Fundamentals of real estate management**	**Scope:**	
GIM		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	1. Semester		
Level	1. Semester: 1st semester: Introduction		
Previous knowledge	1. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Fundamentals of real estate management /ILV / LV-Nr: GIM / 1.Semester / ECTS: 6 • Malloth, T., et at., 2013. Immobilienmanagement Österreich. 5th edition. Vienna: ÖVI • Wendlinger, P., 2018. Immobilienkennzahlen. 2nd edition. Vienna: Linde. • Brauer, K., et al., 2019. Grundlagen der Immobilienwirtschaft. 10th edition. Wiesbaden: Gabler Verlag.		
Acquisition of skills	Fundamentals of real estate management /ILV / LV-Nr: GIM / 1.Semester / ECTS: 6 The students are able to: • Recognize and understand real estate economic interrelationships • Record questions relating to the real estate industry • Understand the fundamentals of real estate economics including concepts and terms for subsequent in-depth courses and argue with real estate economics terminology		
Course contents	Fundamentals of real estate management /ILV / LV-Nr: GIM / 1.Semester / ECTS: 6 • Players in the real estate industry • Documents and information about the property • Factors influencing the property • Terminology and key figures in the real estate industry • Fundamentals of legal relationships in the real estate industry (rights and standards) • Fundamentals of aspects specific to space and building regulations		
Teaching and learning methods	Fundamentals of real estate management /ILV / LV-Nr: GIM / 1.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Fundamentals of real estate management /ILV / LV-Nr: GIM / 1.Semester / ECTS: 6 Written exam		

Module number:	**Foreign language I**	**Scope:**	
SPR.1		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	1. Semester		
Level	1. Semester: B2-C1+ (CEFR)		
Previous knowledge	1. Semester: Secure B1 level in English or recommendation of support measures		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Business English I /ILV / LV-Nr: SPR.1 / 1.Semester / ECTS: 6 Coursebook - by arrangement; authentic materials, e.g., journals (including specialist journals), newspapers, and online media in the target language		
Acquisition of skills	Business English I /ILV / LV-Nr: SPR.1 / 1.Semester / ECTS: 6 The module is designed according to the Common European Framework of Reference for Languages (CEFR). Within the framework of the module, the students will acquire the language and communication skills required for business-oriented professional or academic activity. The following competencies are taught according to the CEFR, i.e., after completion of the module, successful graduates will have mastered the following skills in the target language: Business English for professional and academic purposes (B2-C1+): Independent language use to expert, fluent communication skills		
Course contents	Business English I /ILV / LV-Nr: SPR.1 / 1.Semester / ECTS: 6 The language module integrated into the degree program curriculum is designed according to the methodological principles of a communicative, action-oriented approach. The competence level of the module is based on the Common European Framework of Reference for Languages (CEFR), and a central objective is that students increase their communication skills by at least one level. In addition, there is a clear focus on acquiring academic and business-oriented skills in the target language. B2-C1+ Independent language use to expert, fluent communication skills		
Teaching and learning methods	Business English I /ILV / LV-Nr: SPR.1 / 1.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Business English I /ILV / LV-Nr: SPR.1 / 1.Semester / ECTS: 6 Portfolio with various components: - Various assessments (reading comprehension, listening comprehension, written expression, oral expression) - Various tasks and documentation of achievements, including contributions to group work, course units, and critical reflection on learning outcomes		

Module number:	**Civil engineering I**	**Scope:**	
TEC.1		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	1. Semester		
Level	1. Semester: Introduction		
Previous knowledge	1. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Construction technology I /ILV / LV-Nr: TEC.1 / 1.Semester / ECTS: 6 • Neroth, G. and D. Vollenschaar, 2011. Wendehorst Baustoffkunde: Grundlagen - Baustoffe – Oberflächenschutz. Wiesbaden: Vieweg+Teubner Verlag. • Backe, H., 2008. Baustoffkunde: Für Ausbildung und Praxis, 11th edition. Cologne: Werner Verlag. • Herrmann, H. and W. Krings, 2017. Kleine Baustatik: Grundlagen der Statik und Berechnung von Bauteilen, 18th edition. Wiesbaden: Springer Vieweg. • Lutz, P et. al., 2013. Lehrbuch der Bauphysik: Schall, Wärme, Feuchte, Licht, Brand, Klima. Wiesbaden: Springer Vieweg. • Pech, A. and C. Pöhn, 2018. Bauphysik Wärme – Feuchte – Schall – Brand. Basle: Birkhäuser.		
Acquisition of skills	Construction technology I /ILV / LV-Nr: TEC.1 / 1.Semester / ECTS: 6 The students are able to: • Describe the most important construction and materials as well as constructional concerns and compare their differences. • Classify construction materials and materials according to their physical properties • Identify and classify causes and avoidance of structural defects and damage to buildings • Understand the basic principles of structural mechanics • Understand basic building physics (heat, sound and humidity)		
Course contents	Construction technology I /ILV / LV-Nr: TEC.1 / 1.Semester / ECTS: 6 • Basic knowledge and overview of common building materials for construction and finishing • Assessment and selection of building materials according to technical and economic characteristics • Basic knowledge of structural mechanics • Building physics (heat, sound and humidity) • Construction defects and structural damage with regard to cause and avoidance		
Teaching and learning methods	Construction technology I /ILV / LV-Nr: TEC.1 / 1.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Construction technology I /ILV / LV-Nr: TEC.1 / 1.Semester / ECTS: 6 Written exam		

Module number:	**Scientific & empirical methods**	**Scope:**	
WIS.1		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	1. Semester		
Level	1. Semester: Introduction		
Previous knowledge	1. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Fundamentals of Facility Management /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 • Heisen, M. R. und M. Theisen 2021. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. München: Franz Vahlen • Bourier, G., 2018. Beschreibende Statistik: Praxisorientierte Einführung – Mit Aufgaben und Lösungen. 13. Auflage. Wiesbaden: Springer Gabler • Fahrmeir, L., R. Künstler, I. Pigeot, I. und G. Tutz, 2012. Statistik: Der Weg zur Datenanalyse. 7. Auflage. Berlin: Springer • Fahrmeir, L., Kneib, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendungen. 2. Auflage. Berlin: Springer		
	Scientific & empirical methods /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 • Heisen, M. R. und M. Theisen 2021. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. München: Franz Vahlen • Bourier, G., 2018. Beschreibende Statistik: Praxisorientierte Einführung – Mit Aufgaben und Lösungen. 13. Auflage. Wiesbaden: Springer Gabler • Fahrmeir, L., R. Künstler, I. Pigeot, I. und G. Tutz, 2012. Statistik: Der Weg zur Datenanalyse. 7. Auflage. Berlin: Springer • Fahrmeir, L., Kneib, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendungen. 2. Auflage. Berlin: Springer		
Acquisition of skills	Fundamentals of Facility Management /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 The students are able to: • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialist literature • Present and apply academic methods of literature analysis • Understand and apply concepts and methods of descriptive and explorative statistics		
	Scientific & empirical methods /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 The students are able to: • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialist literature • Present and apply academic methods of literature analysis • Understand and apply concepts and methods of descriptive and explorative statistics		
Course contents	Fundamentals of Facility Management /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 • Principles of academic and scientific work o Science and scientific language o Literature research o Citation and source work o Avoidance of plagiarism • Principles of descriptive and explorative statistics o statistical characteristics and variables o univariate and multivariate descriptive and explorative statistics o index numbers o correlation and regression analyses o concentration measurement o time series analysis		
	Scientific & empirical methods /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 • Principles of academic and scientific work o Science and scientific language o Literature research o Citation and source work o Avoidance of plagiarism • Principles of descriptive and explorative statistics o statistical characteristics and variables o univariate and multivariate descriptive and explorative statistics o index numbers o correlation and regression analyses o concentration measurement o time series analysis		
Teaching and learning methods	Fundamentals of Facility Management /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6		

	Blended Learning
Teaching and learning methods	Scientific & empirical methods /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 Blended Learning
Evaluation Methods Criteria	Fundamentals of Facility Management /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 Term paper and written exam
	Scientific & empirical methods /ILV / LV-Nr: WIS.1 / 1.Semester / ECTS: 6 Term paper and written exam

Module number:	**Digitization in FM & REM**	**Scope:**	
DFMI		**4**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: Introduction and consolidation		
Previous knowledge	2. Semester: Basic knowledge of spreadsheet & word processing software		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation			
Acquisition of skills	Digitization in FM & REM /ILV / LV-Nr: DFMI / 2.Semester / ECTS: 4 The students are able to: • Independently analyze and structure data sets as well as present and critically evaluate information		
Course contents	Digitization in FM & REM /ILV / LV-Nr: DFMI / 2.Semester / ECTS: 4 • Basic programming knowledge for data preparation • Analysis and presentation of information from data sets		
Teaching and learning methods	Digitization in FM & REM /ILV / LV-Nr: DFMI / 2.Semester / ECTS: 4 Blended Learning		
Evaluation Methods Criteria	Digitization in FM & REM /ILV / LV-Nr: DFMI / 2.Semester / ECTS: 4 Portfolio		

Module number:	**Fundamentals of Business Administration & Economics**	**Scope:**	
ECO.1		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: Introduction		
Previous knowledge	2. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Fundamentals of Business Administration & Economics (E) /ILV / LV-Nr: ECO.1 / 2.Semester / ECTS: 6 • Vahs, D. and J. Schäfer-Kunz, 2015. Einführung in die Betriebswirtschaftslehre. 7th edition. Stuttgart: Schäffer Poeschel. • Thommen, J.-P. et al., 2017. Allgemeine Betriebswirtschaftslehre: Umfassende Einführung aus managementorientierter Sicht. 8th edition. Wiesbaden: Springer Gabler. • Schweitzer, M. and A. Baumeister, 2015. Allgemeine Betriebswirtschaftslehre. 11th edition. Berlin: Erich Schmidt Verlag. • Hutzschenreuter, T., 2015. Allgemeine Betriebswirtschaftslehre. 6th edition. Wiesbaden: Springer Gabler. • Wöhe, G., U. Döring and G. Brösel, 2016. Einführung in die Allgemeine Betriebswirtschaftslehre, 26th edition Munich: Vahlen. • Weber, W., R. Kabst and M. Baum, 2018: Einführung in die Betriebswirtschaftslehre, 10th edition Wiesbaden: Springer Gabler. • Pindyck, R. S. and D. L. Rubinfeld, 2018. Mikroökonomie. Pearson Deutschland GmbH • Varian, H. R., 2014. Grundzüge der Mikroökonomik. Berlin: Walter de Gruyter GmbH & Co KG.Deutschland GmbH. • Münter, M.T., 2018. Mikroökonomie, Wettbewerb und strategisches Verhalten. Stuttgart: UTB GmbH • Natrop, J., 2012. Grundzüge der angewandten Mikroökonomie. Berlin: Walter de Gruyter GmbH & Co KG.Deutschland GmbH. • Kahneman, D., 2012. Schnelles Denken, langsames Denken. Munich: Siedler Verlag. • Rifkin, J., 2014. Die Null-Grenzkosten-Gesellschaft: Das Internet der Dinge, kollaboratives Gemeingut und der Rückzug des Kapitalismus. Frankfurt am Main: Campus Verlag. • Thiel, P., and B. Masters, 2014. Zero to one: Wie Innovation unsere Gesellschaft rettet. Frankfurt am Main: Campus Verlag. • Buchholz, L. and R. Gerhards, 2016. Internes Rechnungswesen, Kosten- und Leistungsrechnung, Betriebsstatistik und Planungsrechnung. Wiesbaden: Springer Gabler • Deimel, K. et al., 2017. Kostenrechnung, Das Lehrbuch für Bachelor, Master und Praktiker. Hallbergmoos: Pearson • Geirhofer, S. and C. Hebrank, 2016. Grundlagen Buchhaltung und Bilanzmanagement, 4th edition. Vienna: Linde Verlag. • Coenenberg, A.G. et. al., 2018. Einführung in das Rechnungswesen: Grundlagen der Buchführung und Bilanzierung, 7th edition Stuttgart: Schäffer Poeschel • Wedell, H. and A.A. Dilling, 2018. Grundlagen des Rechnungswesens, 16th edition Herne: NWB Studium • Breidenbach, K. and M. Währisch, 2017. Buchhaltung und Jahresabschluss, 4th edition. Berlin: De Gruyter Studium • Schmidt, M., B. Auer and P. Schmidt, 2012. Buchführung und Bilanzierung: Eine anwendungsorientierte Einführung. Wiesbaden: Springer Gabler		
Acquisition of skills	Fundamentals of Business Administration & Economics (E) /ILV / LV-Nr: ECO.1 / 2.Semester / ECTS: 6 The students are able to: • Describe different business subareas • Explain the fundamentals of marketing • Explain the fundamentals of human resources management • Explain the structure of a company and typical operational processes and the basic constitutive factors of a company. • Recognize relationships in the sense of the various relationships between business functions • Clearly differentiate central business terms from each other • Explain the most important constitutional and functional corporate decisions. • Handle fundamental management problems from an economic point of view • Analyze decisions under uncertainty • Develop strategic decisions on the basis of economic models • Assess the impact of digital technologies and products on a company's cost structure and the formation of market forms • Explain the fundamentals of mapping business decisions in the accounting system. • Explain basic concepts and subareas of accounting • Understand the technique and internal structure of double-entry bookkeeping and assess the structure of an accounting system and the characteristics of different types of accounts • Make simple business postings to balance sheet and profit and loss accounts and create posting records • Identify the significant effects of business transactions on the balance sheet and income statement • Explain task fields and solution approaches of cost and revenue accounting with its subsystems (cost element, cost center and cost unit accounting) • Distinguish between the terms deposits, disbursements, income, expenses and income • Explain the organizational structure of a cost accounting system and explain the main features of the main cost accounting systems • Explain the systems of cost accounting (partial and full cost accounting)		
Course contents	Fundamentals of Business Administration & Economics (E) /ILV / LV-Nr: ECO.1 / 2.Semester / ECTS: 6		

	• Overview and context analysis of the most important subareas in business administration • Subject and fundamentals of business administration: o Operational functional areas o Business decision theory o Fundamentals of management and ethics o Fundamentals of Human Resources and organization o Marketing fundamentals • Fundamentals of business management: o Constitutive company decisions such as legal forms, location decisions, types of mergers and acquisitions and choice of business segment o Functional company decisions: Materials management, production management, marketing • Fundamentals of business value creation processes and functions (value creation architecture and structure) • Fundamentals of market-, process- and strategy-oriented management • Microeconomics and the behavior of managers and companies • Price and product policy of companies • Elementary principles of game theory • Company organization • Market forms & market entry • Decisions under uncertainty • Behavioral economics • Economy of digitization • External accounting: o Structure of the accounting system o Fundamentals of operational accounting: Tasks, sub-areas and basic concepts o Commercial accounting system: From inventory to opening balance sheet o Double-entry accounting system: Posting business cases to inventory and profit and loss accounts o Organization of bookkeeping (chart of accounts, sales tax, etc.) o Principle of period purity and accruals and deferrals • Internal accounting: o Objectives and basic concepts of cost and revenue accounting o Fundamentals of cost and revenue accounting: Tasks, components and subareas o Structure of cost accounting (cost elements, cost centers, cost objects) o Contribution margin accounting
Teaching and learning methods	Fundamentals of Business Administration & Economics (E) /ILV / LV-Nr: ECO.1 / 2.Semester / ECTS: 6 Blended Learning
Evaluation Methods Criteria	Fundamentals of Business Administration & Economics (E) /ILV / LV-Nr: ECO.1 / 2.Semester / ECTS: 6 Written exam

Module number:	**Real estate financing**	**Scope:**	
FIN		**4**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: Introduction		
Previous knowledge	2. Semester: Fundamentals of the Real Estate Industry (GIM), Academic & Empirical Methods (WIS.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Real Estate Finance & Investment /ILV / LV-Nr: FIN / 2.Semester / ECTS: 4 • Geyer, A., M. Hanke, E. Littich, M. Nettekoven, 2015. Grundlagen der Finanzierung, 5th edition. Vienna: Linde Verlag • Walch, P., K. Weichselbaum, 2018. Handbuch Immobilienfinanzierung. 2nd edition. Vienna: Linde Verlag. • Teufelsdorfer, H. et al., 2015. Handbuch Immobilientransaktionen. 2nd edition. Vienna: Linde Verlag.		
Acquisition of skills	Real Estate Finance & Investment /ILV / LV-Nr: FIN / 2.Semester / ECTS: 4 The students are able to: • Recognize and understand financial mathematical correlations • Understand and apply investment and financing calculations • Recognize connections between the capital market and the real estate market • Understand and apply feasibility studies for real estate investments		
Course contents	Real Estate Finance & Investment /ILV / LV-Nr: FIN / 2.Semester / ECTS: 4 • Fundamentals of financial mathematics • Static and dynamic investment calculations • Loan financing and equity financing • Real estate lending process • Real estate investment/real estate investment • Real estate market and capital market		
Teaching and learning methods	Real Estate Finance & Investment /ILV / LV-Nr: FIN / 2.Semester / ECTS: 4 Blended Learning		
Evaluation Methods Criteria	Real Estate Finance & Investment /ILV / LV-Nr: FIN / 2.Semester / ECTS: 4 Written exam		

Module number:	**Foreign Language II**	**Scope:**	
SPR.2		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: B2-C1+ (CEFR)		
Previous knowledge	2. Semester: Business English I		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Business English II /ILV / LV-Nr: SPR.2 / 2.Semester / ECTS: 6 Coursebook - by arrangement; authentic materials, e.g., journals (including specialist journals), newspapers, and online media in the target language		
Acquisition of skills	Business English II /ILV / LV-Nr: SPR.2 / 2.Semester / ECTS: 6 The module is designed according to the Common European Framework of Reference for Languages (CEFR). Within the framework of the module, the students will acquire the language and communication skills required for business-oriented professional or academic activity. The following competencies are taught according to the CEFR, i.e., after completion of the module, successful graduates will have mastered the following skills in the target language: Business English for professional and academic purposes (B2-C1+): Independent language use to expert, fluent communication skills		
Course contents	Business English II /ILV / LV-Nr: SPR.2 / 2.Semester / ECTS: 6 AThe language module integrated into the degree program curriculum is designed according to the methodological principles of a communicative, action-oriented approach. The competence level of the module is based on the Common European Framework of Reference for Languages (CEFR), and a central objective is that students increase their communication skills by at least one level. In addition, there is a clear focus on acquiring academic and business-oriented skills in the target language. B2-C1+ Independent language use to expert, fluent communication skills		
Teaching and learning methods	Business English II /ILV / LV-Nr: SPR.2 / 2.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Business English II /ILV / LV-Nr: SPR.2 / 2.Semester / ECTS: 6 Portfolio with various components: - Various assessments (reading comprehension, listening comprehension, written expression, oral expression) - Various tasks and documentation of achievements, including contributions to group work, course units, and critical reflection on learning outcomes		

Module number:	**Civil engineering II**	**Scope:**	
TEC.2		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: Introduction and consolidation		
Previous knowledge	2. Semester: Civil Engineering I (TEC.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	construction technology /ILV / LV-Nr: TEC.2 / 2.Semester / ECTS: 6 • Hestermann, U. and L. Rongen, 2009. Frick/Knöll Baukonstruktionslehre 1st Wiesbaden: Vieweg+Teubner Verlag. • Kister, J. et al., 2012. Bauentwurfslehre. Wiesbaden: Springer Vieweg. • Neumann, D., Hestermann, U. and L. Rongen, 2008. Frick/Knöll Baukonstruktionslehre 2nd Wiesbaden: Vieweg+Teubner Verlag. • Riccabona, C., 2008. Baukonstruktionslehre 1: Rohbauarbeiten. Vienna: Manz. • Riccabona, C. and K. Mezera, 2011. Baukonstruktionslehre 2: Ausbauarbeiten. Vienna: Manz. • Fröhler, R. and R. Mair, 2003. AutoCAD 2002 Grundlagen der 3D-Konstruktion. Munich, Vienna: Textbook publishing house Leipzig in the Carl Hanser Verlag • Frey, H. et al., 2015. Bautechnik Technisches Zeichnen. Haan-Gruiten: Verlag Europa-Lehrmittel		
Acquisition of skills	construction technology /ILV / LV-Nr: TEC.2 / 2.Semester / ECTS: 6 The students are able to: • Inspect component superstructures and assess them from a constructional point of view • Describe structural designs and relevant connection details and create them inde-pendently. • Understand construction drawings and communicate their characteristics • Create simple 2D & 3D plans using CAD programs		
Course contents	construction technology /ILV / LV-Nr: TEC.2 / 2.Semester / ECTS: 6 • Primary, secondary and tertiary structures • Solid, lightweight and system construction methods in shell and finish construction • Communication of the constructive interrelations and detailed solutions usually found in building construction (new construction and renovation) • Requirements (rules and standards) and contents of construction drawings (site plan, ground plans, sections, views and details) • Introduction to the functions of a CAD program and application		
Teaching and learning methods	construction technology /ILV / LV-Nr: TEC.2 / 2.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	construction technology /ILV / LV-Nr: TEC.2 / 2.Semester / ECTS: 6 Term paper and written exam		

Module number:	**Immobilienbewertung**	**Scope:**	
VAL		**4**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	2. Semester		
Level	2. Semester: Introduction		
Previous knowledge	2. Semester: Fundamentals of the Real Estate Industry (GIM)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Real estate valuation /ILV / LV-Nr: VAL.1 / 2.Semester / ECTS: 4 • Kranewitter, H., 2017. Liegenschaftsbewertung. 7th edition. Vienna: Manz. • Seiser, F., F. Kainz, F., 2011. Der Wert von Immobilien. 1st edition. Graz: Seiser+Seiser Immobilien Consulting. • Bienert, S. and M. Funk, M., et al., 2014. Immobilienbewertung Österreich. Vienna: ÖVI. • Kleiber, W., 2016. Verkehrswertermittlung von Grundstücken. 8th edition. Cologne: Bundesanzeiger Verlag.		
Acquisition of skills	Real estate valuation /ILV / LV-Nr: VAL.1 / 2.Semester / ECTS: 4 The students are able to: • Recognize correlations in the valuation procedures and the different types of property • Understand the systematics of real estate valuation • Describe and apply national assessment procedures		
Course contents	Real estate valuation /ILV / LV-Nr: VAL.1 / 2.Semester / ECTS: 4 • Fundamentals of property valuation • Procedure and influencing factors of standardized valuation methods (comparative value method, material value method, capitalized earnings value method, DCF method, residual value method) • Introduction to valuation of rights and encumbrances		
Teaching and learning methods	Real estate valuation /ILV / LV-Nr: VAL.1 / 2.Semester / ECTS: 4 Blended Learning		
Evaluation Methods Criteria	Real estate valuation /ILV / LV-Nr: VAL.1 / 2.Semester / ECTS: 4 Written exam		

Module number:	**Selected topics in business administration**	**Scope:**	
ECO.2		**8**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	3. Semester		
Level	3. Semester: Consolidation		
Previous knowledge	3. Semester: Introduction to Business Administration & Economics (ECO.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Selected Topics Business Administration /ILV / LV-Nr: ECO.2 / 3.Semester / ECTS: 8 • Kollmann, T., 2016. E-Entrepreneurship: Grundlagen der Unternehmensgründung in der digitalen Wirtschaft. Wiesbaden: Springer Gabler. • Moring, A., L. Maiwald and T. Kewitz, 2018. Bits und Bricks: Digitalisierung von Geschäftsmodellen in der Immobilienbranche. Wiesbaden: Springer Gabler. • Osterwalder, A. and Y. Pigneur, 2011. Business Model Generation: Ein Handbuch für Visionäre, Spielveränderer und Herausforderer. Frankfurt a.M.: Campus Verlag GmbH. • Plümer, T. and M. Niemann, 2016. Existenzgründung Schritt für Schritt. 2nd edition. Wiesbaden: Springer Gabler.		
Acquisition of skills	Selected Topics Business Administration /ILV / LV-Nr: ECO.2 / 3.Semester / ECTS: 8 The students are able to: • Explain the fundamentals of setting up a company • Apply the business plan creation process • Evaluate business plans • Explain economic trends and correlations or changes and assess the resulting new business models • Market a business model		
Course contents	Selected Topics Business Administration /ILV / LV-Nr: ECO.2 / 3.Semester / ECTS: 8 • Fundamentals of a company with a focus on digital business models within the real estate industry • Components of a business plan and creation of one' s own business plan • Business model analysis • Fundamentals of marketing business models		
Teaching and learning methods	Selected Topics Business Administration /ILV / LV-Nr: ECO.2 / 3.Semester / ECTS: 8 Blended Learning		
Evaluation Methods Criteria	Selected Topics Business Administration /ILV / LV-Nr: ECO.2 / 3.Semester / ECTS: 8 Project		

Module number:	**Selected topics social skills & presentation**	**Scope:**	
SOC		**7**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	3. Semester		
Level	3. Semester: Introduction and consolidation		
Previous knowledge	3. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Selected Topics Social Competences & Presentation /ILV / LV-Nr: SOC / 3.Semester / ECTS: 7 • Rosenberg, M., 2012. Gewaltfreie Kommunikation. Paderborn: Junfermann • Becker, H. und A. Hugo-Becker, 1992. Psychologisches Konfliktmanagement. München: Beck. • Oboth, M., 2008. Mediation in Teams und Gruppen. Paderborn: Junfermann		
Acquisition of skills	Selected Topics Social Competences & Presentation /ILV / LV-Nr: SOC / 3.Semester / ECTS: 7 The students are able to: • Present basic concepts of communicative processes and consciously use content and relationship aspects of human communication. • Understand motivation and assessment of people in a professional context • Reflect a meaningful design of work and leisure time (work-life balance) • Facilitate communicative processes within the team and identify and analyze problems in team communication and develop solution strategies. • Prepare and conduct presentations and use the techniques and media required for them in a targeted manner • Create simple 3D visualizations • Create short videos to visualize ideas and concepts with simple tools		
Course contents	Selected Topics Social Competences & Presentation /ILV / LV-Nr: SOC / 3.Semester / ECTS: 7 • Basic components of communicative processes, message and meaning as well as content and relationship aspects of human communication • Language, gestures, facial expressions, posture • Possibilities of communication for assessment and motivation • Communication in a team • Communication problems and conflict solutions • Goals and target group as well as structure, content and form of a presentation • Selection and application of different presentation techniques and media • Challenges of dislocated presentations • Goals and target group as well as content and form of 3D visualizations • Selection and application of tools for the creation of 3D visualizations • Objectives and target group as well as structure, content and form of short videos • Selection and application of simple techniques and tools for video creation		
Teaching and learning methods	Selected Topics Social Competences & Presentation /ILV / LV-Nr: SOC / 3.Semester / ECTS: 7 Blended Learning		
Evaluation Methods Criteria	Selected Topics Social Competences & Presentation /ILV / LV-Nr: SOC / 3.Semester / ECTS: 7 Portfolio		

Module number:	**Selected topics economics**	**Scope:**	
VWL		**10**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	3. Semester		
Level	3. Semester: Introduction and consolidation		
Previous knowledge	3. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Selected Topics Economics /ILV / LV-Nr: VWL / 3.Semester / ECTS: 10 • Krugman, P., R., Wells, 2017. Volkswirtschaftslehre. 2nd edition. Munich: Schäffer Poeschel • Pirounakis, N., 2013. Real Estate Economics: A Point-to-Point Handbook. UK: Routledge. • Maier, G., F., Tödtling, 2012. Regional- und Stadtökonomik 1: Standorttheorie und Raumstruktur. 5th edition. Vienna: Springer • Maier, G., F., Tödtling, 2012. Regionalentwicklung und Regionalpolitik. 4th edition. Vienna: Springer • Rottke, N., M., Voigtländer, 2017. Immobilienwirtschaftslehre – Ökonomie. Wiesbaden: Gabler Verlag		
Acquisition of skills	Selected Topics Economics /ILV / LV-Nr: VWL / 3.Semester / ECTS: 10 The students are able to: • Name the essential components of a market model and discuss market equilibrium as the interaction of supply and demand. • Name the determinants of consumer demand and explain the response to external factors such as income changes. • Explain both potentials and limitations of market models based on real markets such as housing or labor markets and extend abstract models with increased realism. • Understand production decisions in companies and to interpret the influences of market forms on price setting. • Examine and critically evaluate current developments on the basis of models. • Name the main components and institutions of an economy and explain how they function. • Name macroeconomic indicators such as gross domestic product or consumer price index and explain their content. • Independently research indicators for economic growth and inflation and present current developments.		
Course contents	Selected Topics Economics /ILV / LV-Nr: VWL / 3.Semester / ECTS: 10 Core Topics: • Economic thinking and marginal analysis • Efficient allocation of scarce resources • Market model and market equilibrium • Macroeconomic variables (GDP, inflation and unemployment) and the interrelationships Selected economics topics: • Elasticity and welfare • Cost functions and optimal firm production • Price setting and market forms • Short-term economic fluctuations: Business cycle • Money, the ECB and inflation • Long-term economic growth • International relations and trade		
Teaching and learning methods	Selected Topics Economics /ILV / LV-Nr: VWL / 3.Semester / ECTS: 10 Blended Learning		
Evaluation Methods Criteria	Selected Topics Economics /ILV / LV-Nr: VWL / 3.Semester / ECTS: 10 Term paper and presentation		

Module number:	**Selected topics scientific & empirical methods**	**Scope:**	
WIS.2		**5**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	3. Semester		
Level	3. Semester: Introduction and consolidation		
Previous knowledge	3. Semester: Academic and Empirical Methods (WIS.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Selected Topics on Academic & Empirical Methods /ILV / LV-Nr: WIS.2 / 3.Semester / ECTS: 5 • Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer • Flick, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung. Rowohlts Enzyklopädie • Lamnek, S., 2010. Qualitative Sozialforschung. Berlin: Beltz • Przyborski, A. and M. Wohlrab-Sahr, 2010: Qualitative Sozialforschung. Munich: Oldenbourg		
Acquisition of skills	Selected Topics on Academic & Empirical Methods /ILV / LV-Nr: WIS.2 / 3.Semester / ECTS: 5 The students are able to: • Describe and apply relevant quantitative and qualitative academic methods in the subject area • Select and independently apply tools and methods to support data collection and analysis. • Illustrate and critically reflect on results in a comprehensible way		
Course contents	Selected Topics on Academic & Empirical Methods /ILV / LV-Nr: WIS.2 / 3.Semester / ECTS: 5 • Qualitative and Quantitative Scientific Methods o Questionnaire o Interview o Qualitative & quantitative content analysis o Field & laboratory study (focus on experiment, A/B test & simulation) • Tools and Examples o Data collection o Data analysis o Visualization of the results • Description and critical reflection of results		
Teaching and learning methods	Selected Topics on Academic & Empirical Methods /ILV / LV-Nr: WIS.2 / 3.Semester / ECTS: 5 Blended Learning		
Evaluation Methods Criteria	Selected Topics on Academic & Empirical Methods /ILV / LV-Nr: WIS.2 / 3.Semester / ECTS: 5 Term paper		

Module number:	**Real Estate Development**	**Scope:**	
DEV.1		**9**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	4. Semester		
Level	4. Semester: Introduction		
Previous knowledge	4. Semester: Fundamentals of the Real Estate Industry (GIM), Fundamentals of Facility Management (GFM), Real Estate Investment & Financing (FIN), Civil Engineering II (TEC.2), Law for Facility & Real Estate Management (REC), Selected Topics Social Competences & Presentation (SOC)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Real Estate Development /ILV / LV-Nr: DEV.1 / 4.Semester / ECTS: 9 • Bone-Winkel, S. and K. Schulte, 2008. Handbuch Immobilien-Projektentwicklung, 3rd edition. Cologne: Rudolf Müller - Immobilien Manager Verlag. • Diederichs, C., 2006. Immobilienmanagement im Lebenszyklus: Projektentwicklung, Projektmanagement, Facility Management, Immobilienbewertung. Berlin: Springer. • Kallinger, W., Gartner,H. and W. Stingl, 2011. Bauträger & Projektentwickler: Immobi-lien erfolgreich Entwickeln, Sanieren und Verwerten. Vienna: Manz. • Klaubetz, E. et. al., 2016. Handbuch Immobilienprojektentwicklung. Vienna: Linde. • Schäfer, J. and G. Conzen, 2013. Praxishandbuch der Immobilien-Projektentwicklung. Munich: C.H.Beck.		
Acquisition of skills	Real Estate Development /ILV / LV-Nr: DEV.1 / 4.Semester / ECTS: 9 The students are able to: • Understand basic provisions of public building law • Describe the basic contents of a feasibility study • Describe and evaluate methods of market, location and economic analyses and prepare them independently • Evaluate and create simple building and use concepts • Present milestones in the processes of the planning and construction phases • Identify building typologies and analyze and create function-oriented area alloca-tions • Analyze design rules • Reproduce important architectural historical data, characteristics and correlations • Make sketches (2D and 3D) as a basis for communication in the construction sector • Present, analyze and exemplary apply methods and instruments of real estate mar-keting • Identify project development tasks and types of project developers, understand the framework conditions of the industry and identify overlaps and connections with other sub-areas of the real estate industry		
Course contents	Real Estate Development /ILV / LV-Nr: DEV.1 / 4.Semester / ECTS: 9 • Public building law (provisions from regional and building regulations) • Fundamentals and application of feasibility studies o Market, location and competition analyses o Use concepts o Profitability analyses o Risk analysis • Planning and construction processes • Building typologies and room functions • Design fundamentals • Creation of 2D and 3D sketches as basis for communication • Special features, instruments and methods of real estate marketing		
Teaching and learning methods	Real Estate Development /ILV / LV-Nr: DEV.1 / 4.Semester / ECTS: 9 English version will be available soon		
Evaluation Methods Criteria	Real Estate Development /ILV / LV-Nr: DEV.1 / 4.Semester / ECTS: 9 English version will be available soon		

Module number:	**Project Management & Practice Project I**	**Scope:**	
PRX.1		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	4. Semester		
Level	4. Semester: Introduction and consolidation		
Previous knowledge	4. Semester: all contents of the modules from semesters 1, 2 and 3.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Project Management & Practical Project I /ILV / LV-Nr: PRX.1 / 4.Semester / ECTS: 6 • Patzak, G., Rattay, G. (2014) Projektmanagement: Leitfaden zum Management von Projekten, Projektportfolios und projektorientierten Unternehmen. Linde. • PMI Institute, 2009. A Guide to the Project Management Body of Knowledge (PMBOK) • Kraus, G. und R. Westermann, 2004. Projektmanagement mit System. Wiesbaden		
Acquisition of skills	Project Management & Practical Project I /ILV / LV-Nr: PRX.1 / 4.Semester / ECTS: 6 The students are able to: • Independently identify problems and tasks from a given objective • Collect and analyze data independently • Independently develop solutions and present results • Independently acquire specialist knowledge for solving specific problems and implement this knowledge in line with the situation • Name project management methods and apply the structures and processes of a defined project independently using supporting project management tools. • Communicate in a situation-appropriate and personal manner		
Course contents	Project Management & Practical Project I /ILV / LV-Nr: PRX.1 / 4.Semester / ECTS: 6 The students have to carry out a project independently in small groups to the extent of 4 ECTS = 100h. The basis for this is a given objective. Planning, coordination, budgeting, control, communication and reporting as well as finding solutions are in the hands of the students. The role of the course director focuses on coaching the students. In addition to the project, basic principles of project management and application of supporting tools are part of this module: • Project planning (project organization, resource planning with time planning, as well as cost, financial and budget planning). • Project management (time management, cost control and accounting, team leadership, quality management for projects)		
Teaching and learning methods	Project Management & Practical Project I /ILV / LV-Nr: PRX.1 / 4.Semester / ECTS: 6 Blended learning and problem-based & project-based learning		
Evaluation Methods Criteria	Project Management & Practical Project I /ILV / LV-Nr: PRX.1 / 4.Semester / ECTS: 6 Project and Portfolio		

Module number:	**Facility Services**	**Scope:**	
SER		**9**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	4. Semester		
Level	4. Semester: Introduction		
Previous knowledge	4. Semester: Fundamentals of Facility Management (GFM), Fundamentals of the Real Estate Industry (GIM), Selected Topics Business Administration (ECO.2)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Facility Services /ILV / LV-Nr: SER / 4.Semester / ECTS: 9 • Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Managements. Berlin: Springer Vieweg. • Kaiser, C., J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility Manage-ment.1st edition. Wiesbaden: Springer Vieweg. • Brugger-Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safely and implement it meaningfully. 2nd edition. Wiesbaden: Springer Gabler Fachmedien. • Geilhausen, M., Schulze, O., Engelmann, D. and J. Bränzel, 2015. Energiemanagement: Für Fachkräfte, Beauftragte und Manager. Wiesbaden: Springer Vieweg. • Schröder, W, 2010. Ganzheitliches Instandhaltungsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler.		
Acquisition of skills	Facility Services /ILV / LV-Nr: SER / 4.Semester / ECTS: 9 The students are able to: • Identify Facility Services and their contents • Identify quality levels and different requirements for different property types • Present differences between result-oriented and performance-oriented bills of quantities and services • Create and review Service Level Agreements for Facility Services • Identify requirements and tasks of quality management systems for the various facility services • Define maintenance strategies and select them according to the requirements • Present and analyze relocation processes • Name and analyze various office concepts and land uses and present ergonomic and labor law requirements for workplace design • Create occupancy plans in dependencies of area concepts • Present the contents and processes of energy audits and the energy management system. • Describe the fundamentals of building cleaning and to calculate services • Describe the process of a Computer Aided Facility Management (CAFM) implementation		
Course contents	Facility Services /ILV / LV-Nr: SER / 4.Semester / ECTS: 9 • Structure and contents of service level agreements • Basic structure and contents of Facility Services • Structure and procedure of a CAFM implementation • Measurement procedures and certifications in quality management • Energy management with a focus on energy management systems and energy audits • Maintenance management and maintenance strategies • Relocation management and space management with a focus on office space and workplace concepts, space planning, occupancy analyses, ergonomics, accessibility and change management • Basic concepts and calculations in cleaning management		
Teaching and learning methods	Facility Services /ILV / LV-Nr: SER / 4.Semester / ECTS: 9 Blended Learning		
Evaluation Methods Criteria	Facility Services /ILV / LV-Nr: SER / 4.Semester / ECTS: 9 Written exam		

Module number:	**Technical building equipment I**	**Scope:**	
TEC.3		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	4. Semester		
Level	4. Semester: Introduction		
Previous knowledge	4. Semester: Civil Engineering I (TEC.1), Civil Engineering II (TEC.2)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Technical Building Facilities I /ILV / LV-Nr: TEC.3 / 4.Semester / ECTS: 6 • Recknagel, H., et al., 2018. Taschenbuch für Heizung und Klimatechnik 2019/20. 79th edition. Munich: Oldenbourg • Burkhardt, W. and R. Kraus, 2011. Projektierung von Warmwasserheizungen. 8th edition. Munich: Oldenbourg • Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung, Innenausbau, Haustechnik. 1st edition. Munich: Edition Detail • Hausladen, G., et al., 2004. ClimaDesign - Lösungen für Gebäude die mit weniger Technik mehr können. Munich: Callwey Verlag • Daniels, K., 2003. Advanced Building Systems. Munich, Zürich: Birkhäuser • Büttner, W. et al., 2011. Grundlagen der Elektrotechnik, 1st Munich: Oldenbourg • Bumiller, H et al., 2018. Fachkunde Elektrotechnik. Haan-Gruiten: Verlag Europa-Lehrmittel		
Acquisition of skills	Technical Building Facilities I /ILV / LV-Nr: TEC.3 / 4.Semester / ECTS: 6 In respect of the heating, cooling, ventilation and electrical engineering trades, students are able to: • Describe technical building requirements • Analyze and calculate technical solutions in the construction sector and compile them in a preliminary planning phase. • Have professional communication with TGA planners		
Course contents	Technical Building Facilities I /ILV / LV-Nr: TEC.3 / 4.Semester / ECTS: 6 • Meteorological fundamentals, comfort • Heating and cooling loads • Heating systems: Description and characteristics of the most important components, e.g. heat exchangers, boilers, burners, heat pumps, solar systems, automation equipment • Ventilation technology: Description and characteristics of the most important components, e.g. fans, air heaters and air coolers, air filters, air humidifiers and dehumidifiers, heat recovery, fire protection, automation equipment. • Refrigeration: Description and characteristics of the most important components, e.g. refrigerating machines, recooling plants, cooling ceilings, circulating air cooling units • Electrical engineering: Description and characteristics of the most important components, e.g. distribution, fuses, equipment		
Teaching and learning methods	Technical Building Facilities I /ILV / LV-Nr: TEC.3 / 4.Semester / ECTS: 6 Blended Learning		
Evaluation Methods Criteria	Technical Building Facilities I /ILV / LV-Nr: TEC.3 / 4.Semester / ECTS: 6 Term paper and written exam		

Module number:	**Real estate management**	**Scope:**	
BEW		**3**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	5. Semester		
Level	5. Semester: Introduction		
Previous knowledge	5. Semester: Fundamentals of the Real Estate Industry (GIM), Fundamentals of Facility Management (GFM),Real Estate Development (DEV.1), Facility Services (SER)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Real Estate Management /ILV / LV-Nr: BEW / 5.Semester / ECTS: 3 • Gondring,H. und T. Wagner (Hrsg.), 2010. Real Estate Asset Management - Handbuch für Praxis, Aus- und Weiterbildung. 1. Auflage. München: Vahlen. • Malloth, T. (Hrsg.), 2013. Immobilienmanagement Österreich, ÖVI Wien. 5. Auflage. • Bammer, O., K. Fuhrmann und R. Ledl (Hrsg.), 2011. Handbuch Immobilienbewirtschaftung. 1. Auflage. Wien: Linde. • Pfnür, A. (Hrsg.), 2011. Modernes Immobilienmanagement. 3. Auflage. München: Springer		
Acquisition of skills	Real Estate Management /ILV / LV-Nr: BEW / 5.Semester / ECTS: 3 The students are able to: • Describe and apply the fundamentals of building management • Name and apply corporate and public real estate management and real estate asset management activities • Carry out property management activities, identify problem areas and propose solutions • Collect, analyze and evaluate key management indicators		
Course contents	Real Estate Management /ILV / LV-Nr: BEW / 5.Semester / ECTS: 3 • Fundamentals of building management • Management and administration of WGG properties, WE properties, apartment buildings and commercial properties • Real estate asset management • Corporate real estate management • Public real estate management • Key management figures		
Teaching and learning methods	Real Estate Management /ILV / LV-Nr: BEW / 5.Semester / ECTS: 3 Blended Learning		
Evaluation Methods Criteria	Real Estate Management /ILV / LV-Nr: BEW / 5.Semester / ECTS: 3 Written exam		

Module number:	**International Facility Management & Real Estate Development - Project & International Week**	**Scope:**	
DEV.2		**10**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	5. Semester		
Level	5. Semester: Consolidation		
Previous knowledge	5. Semester: all content from modules 1., 2., 3 and 4. Semesters		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	International Facility Management & Real Estate Development - Project & International Week (E) The literature is based on the project topics dealt with.		
Acquisition of skills	International Facility Management & Real Estate Development - Project & International Week (E) The students are able to: • Create and present ideas and concepts for projects in facility management and/or real estate development with real or realistic tasks and problems. • Work in interdisciplinary, international teams • Reflect internationally on different approaches and possible solutions and derive their own knowledge and skills from them		
Course contents	International Facility Management & Real Estate Development - Project & International Week (E) 2x blocked compact weeks in small groups with international students: • Introduction, consolidation, background and examples in the complex of topics of the project within the framework of a conference or introductory event. • Research and analysis of framework conditions and possibilities • Development and visualization of ideas and concepts • Presentation of the results to stakeholders and/or technical experts		
Teaching and learning methods	International Facility Management & Real Estate Development - Project & International Week (E) Problem & project-based learning, excursion, conference participation		
Evaluation Methods Criteria	International Facility Management & Real Estate Development - Project & International Week (E) 2x independent projects from the respective compact weeks		

Module number:	**Practice Transfer & Practice Project II**	**Scope:**	
PRX.2		**5**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	5. Semester		
Level	5. Semester: Consolidation		
Previous knowledge	5. Semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Practice Transfer & Practical Project II /ILV / LV-Nr: PRX.2 / 5.Semester / ECTS: 5 none		
Acquisition of skills	Practice Transfer & Practical Project II /ILV / LV-Nr: PRX.2 / 5.Semester / ECTS: 5 The students are able to build on and deepen their knowledge of the practical project I: • Independently identify problems and tasks from a given objective • Collect and analyze data independently • Independently develop solutions and present results • Identify, reflect and transfer examples and approaches from practice and research to solve specific problems • Independently develop expertise to solve specific problems		
Course contents	Practice Transfer & Practical Project II /ILV / LV-Nr: PRX.2 / 5.Semester / ECTS: 5 The students have to carry out a project independently in small groups to the extent of 4 ECTS = 100h. The basis for this is a predefined objective. Planning, coordination, budgeting, control, communication and reporting as well as finding solutions are in the hands of the students. The role of the course director focuses on coaching the students. In addition to the project, the following teaching and learning contents are part of this module: • Examples and approaches to solutions from practice and research are presented in lectures by experts in the field and, where appropriate, excursions to companies and research institutions.		
Teaching and learning methods	Practice Transfer & Practical Project II /ILV / LV-Nr: PRX.2 / 5.Semester / ECTS: 5 Presentation and problem-based & project-based learning		
Evaluation Methods Criteria	Practice Transfer & Practical Project II /ILV / LV-Nr: PRX.2 / 5.Semester / ECTS: 5 Project		

Module number:	**Law for Facility Management & Real Estate**	**Scope:**	
REC		**7**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	5. Semester		
Level	5. Semester: Introduction		
Previous knowledge	5. Semester: Fundamentals of the Real Estate Industry (GIM), Fundamentals of Facility Manage-ment (GFM)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Law for Facility Management & Real Estate /ILV / LV-Nr: REC / 5.Semester / ECTS: 7 • Meissel, F., et al., 2016. Grundbegriffe der Rechtswissenschaften, 3rd edition. Vienna: Manz. • Artner, S., Kohlmaier, K., et al., 2017. Praxishandbuch Immobilienrecht. 2nd edition. Vienna: Linde. • Krumschnabel, M., 2015. Immobilienverträge. 1st edition. Kufstein: Eigenverlag • Najork, E., et al., 2009. Rechtshandbuch Facility Management. 1st edition. Berlin: Springer • Kaiser, C., Nusser, J. und f. Schrammel. 2018. Praxishandbuch Facility Management. 1st edition. Wiesbaden: Springer Vieweg.		
Acquisition of skills	Law for Facility Management & Real Estate /ILV / LV-Nr: REC / 5.Semester / ECTS: 7 The students are able to: • Identify and classify legal areas and topics • Understand real estate law areas and their fundamentals, and grasp their legal aspects • Identify the specifics of the legal area of facility management		
Course contents	Law for Facility Management & Real Estate /ILV / LV-Nr: REC / 5.Semester / ECTS: 7 • Explanations of terms from the most important areas of law • Distinction between public law and private law • Applied basic knowledge of civil law • Real estate-specific legal areas (e.g. acquisition of property, MRG, WEG) • Contract law (including FM contracts, contracts for work and services, maintenance and repair contracts) • Fundamentals of public procurement law		
Teaching and learning methods	Law for Facility Management & Real Estate /ILV / LV-Nr: REC / 5.Semester / ECTS: 7 Blended Learning		
Evaluation Methods Criteria	Law for Facility Management & Real Estate /ILV / LV-Nr: REC / 5.Semester / ECTS: 7 Written exam		

Module number:	**Technical building equipment II**	**Scope:**	
TEC.4		**5**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	5. Semester		
Level	5. Semester: Introduction and consolidation		
Previous knowledge	5. Semester: Technical Building Facilities I (TEC.3)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Technical Building Facilities II /ILV / LV-Nr: TEC.4 / 5.Semester / ECTS: 5 • Feurich, H. und L. Kühl, 2011. Sanitärtechnik Band 1 + 2. 10. erweiterte Auflage. Düsseldorf: Krammer Verlag • Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung, Innenausbau, Haustechnik. 1. Auflage. München: Edition Detail • Unger, D., 2018. Aufzüge und Fahrtreppen: Ein Anwenderhandbuch (VDI Buch). 3. Auflage. Berlin: Springer Vierweg		
Acquisition of skills	Technical Building Facilities II /ILV / LV-Nr: TEC.4 / 5.Semester / ECTS: 5 The students are able to work with sanitary engineering, elevators, escalators, lifting platforms, automatic doors, garage technology, fire alarm systems and safety lighting: • Describe technical building requirements • Analyze and calculate technical solutions in the construction sector and compile them in a preliminary planning phase. • Have professional communication with TGA planners		
Course contents	Technical Building Facilities II /ILV / LV-Nr: TEC.4 / 5.Semester / ECTS: 5 • Sanitary Technology: Hot water preparation, water supply, sewage disposal, rainwater • Elevators, escalators, lifting platforms, automatic doors, garage technology, fire alarm systems, safety lighting		
Teaching and learning methods	Technical Building Facilities II /ILV / LV-Nr: TEC.4 / 5.Semester / ECTS: 5 Blended Learning		
Evaluation Methods Criteria	Technical Building Facilities II /ILV / LV-Nr: TEC.4 / 5.Semester / ECTS: 5 Term paper and written exam		

Module number:	**International Facility Management & Real Estate Development - Practice, Research & Study Trip**	**Scope:**	
DEV.3		**6**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	6. Semester		
Level	6. Semester: Consolidation		
Previous knowledge	6. Semester: 6th semester: all contents of the modules from the 1st, 2nd, 3rd, 4th and 5th semesters		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E) /ILV / • Thomas, A. (Ed.) (2003). Handbuch Interkulturelle Kommunikation und Kooperation. Bd. 1: Grundlagen und Praxisfelder. Göttingen: Vandenhoeck & Ruprecht • Thomas, A. (Ed.), 2003. Handbuch Interkulturelle Kommunikation und Kooperation. Bd. 2: Grundlagen und Praxisfelder. Göttingen: Vandenhoeck & Ruprecht • Jones, E.: Cultures Merging. Princeton: Princeton University Press Further literature depends on the respective field trip destination.		
Acquisition of skills	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E) /ILV / The students are able to: • Understand and question international developments and their impact on the real estate industry and facility management. • Describe and question current global trends in the industry • Understand and question different approaches to specific problems in the real estate industry and facility management. • Describe dynamics of culture, identity and intercultural encounter • Take a position on values, stereotypes and prejudices • Describe intercultural interaction, communication and conflict skills and apply them in intercultural settings. • Understand intercultural differences and be able to react appropriately to them in the area of Facility & Real Estate Management		
Course contents	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E) /ILV / The part-time students must complete an accompanied study trip / trip abroad with a specialist program amounting to 3 ECTS = 75 hours. Within the scope of the study trip / trip abroad, the following contents are taught: • Introduction and consolidation to international Best & Real Case projects from the Facility & Real Estate Management practice as well as studies from research within the scope of a trip abroad. • Current research and development topics through participation in international conferences • Research and analysis of international best case projects for Facility & Real Estate Management • Visits to international best case projects for Facility & Real Estate Management • Application of intercultural competences In addition to the study trip / trip abroad, the following learning contents are part of this module: • Definitions & aspects of intercultural competence • Special features of communication, conflicts and cooperation in intercultural context • Active engagement with values & skills such as empathy, change of perspective, communication and conflict skills • Special features and challenges of intercultural projects for Facility & Real Estate Management		
Teaching and learning methods	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E) /ILV / Lecture, discussion and excursion		
Evaluation Methods Criteria	International Facility Management & Real Estate Development - Intercultural Communication & Study Trip (E) /ILV / Portfolio		

Module number:	**Professional internship**	**Scope:**	
PRX.3		**14**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	6. Semester		
Level	6. Semester: Consolidation		
Previous knowledge	6. Semester: Selected topics Social Competences & Presentation (SOC) and all contents of modules with cross-links to the areas of responsibility of the internship from semesters 1 to 5.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Internship & Business Personality Development /ILV / LV-Nr: PRX.3 / 6.Semester / ECTS: 14 • Brenner, D., 2007. Schön, dass Sie da sind!: Karrierestart nach dem Studium. Nürnberg: BW Verlag • Cark, T., A. Osterwalder and Y. Pigneur, 2012: Business Model You: Dein Leben - Deine Karriere - Dein Spiel Broschiert. Frankfurt a.M.: Campus Verlag • Wehrle, M., 2019. Career counseling: Menschen wirksam im Beruf unterstützen. Weinheim: Beltz.		
Acquisition of skills	Internship & Business Personality Development /ILV / LV-Nr: PRX.3 / 6.Semester / ECTS: 14 The students are able to: • Apply their acquired knowledge in professional practice • Understand processes in the professional environment • Solve problems independently within the scope of professional projects and implement solutions as well as justify them with comprehensible arguments and present results in a clear and goal-oriented way • Successfully use communication at all levels (superiors, colleagues, employees, external partners) to solve problems • Independently develop expertise to solve specific problems		
Course contents	Internship & Business Personality Development /ILV / LV-Nr: PRX.3 / 6.Semester / ECTS: 14 Part-time students must complete an internship of 8 ECTS = 200 hours. This time can be credited to students working in a specific subject. The following contents will be taught during the internship: • Supplementing and deepening the knowledge acquired during the course of study through practical activities and questions of commercial law at an external company. The internship ensures that the students find their way when they start their professional life or when they re-orientate after their studies, and that they gain confidence in the implementation of their acquired knowledge through experience they have al-ready gained. In addition to the internship, the following teaching and learning contents are part of this module, and are further developed with exercises and supplementary work: • Reflection on one's own strengths • Possibilities of self-marketing • Implementation strategies for a personal work-life balance		
Teaching and learning methods	Internship & Business Personality Development /ILV / LV-Nr: PRX.3 / 6.Semester / ECTS: 14 English version will be available soon		
Evaluation Methods Criteria	Internship & Business Personality Development /ILV / LV-Nr: PRX.3 / 6.Semester / ECTS: 14 English version will be available soon		

Module number:	**Bachelor thesis seminar**	**Scope:**	
WIS.3		**10**	**ECTS**
Degree program	University of Applied Sciences Bachelor's Program Facility & Real Estate Management part-time		
Position in the curriculum	6. Semester		
Level	6. Semester: Consolidation		
Previous knowledge	6. Semester: Scientific & empirical methods (WIS.1), Selected topics academic & empirical methods (WIS.2) and contents from the modules with links to the topic of the Bachelor thesis of semesters 1 to 5.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	Bachelor Thesis Seminar /SE / LV-Nr: WIS.3 / 6.Semester / ECTS: 10 none		
Acquisition of skills	Bachelor Thesis Seminar /SE / LV-Nr: WIS.3 / 6.Semester / ECTS: 10 The students are able to: • Define a topic independently and formulate a question independently • Present the "state of the art" in the context of the question and, if necessary, critically compare different views • Independently collect, interpret and critically reflect on data with the help of a self-chosen academic methodology, thereby developing and further developing arguments and problem solutions • Present results in a comprehensible manner and according to academic standards in the form of a Bachelor thesis • Organize oneself • Independently prepare and learn knowledge and skills from cross-connections of the course contents for the final Bachelor examination in a systematic manner		
Course contents	Bachelor Thesis Seminar /SE / LV-Nr: WIS.3 / 6.Semester / ECTS: 10 • Deepening the knowledge of academic work in relation to the independent Bachelor thesis • Visualization of academic results such as posters, video, infographics, etc. • Regular meetings to discuss the current status and progress of the Bachelor thesis with accompanying academic supervision • Information on the Commission Bachelor examination		
Teaching and learning methods	Bachelor Thesis Seminar /SE / LV-Nr: WIS.3 / 6.Semester / ECTS: 10 Blended learning and supervision of the Bachelor thesis		
Evaluation Methods Criteria	Bachelor Thesis Seminar /SE / LV-Nr: WIS.3 / 6.Semester / ECTS: 10 Bachelor thesis and visualization of the contents of the academic work		

2.4 Internship

The students choose an internship independently. They can draw on the extensive range of internship advertisements offered by the Kufstein University of Applied Sciences. The Director of Studies checks the professional correspondence of the internship activities with the contents of the course and the qualification profiles of the course of studies. Subsequently, the Director of Studies checks whether the internship corresponds to the training objectives of the program and whether the student can be employed according to his/her level of qualification. If these requirements are met, the organizational processing is carried out by the International Relations Office (IRO). A detailed internship guide supports students in organizing their internship semester; students can also contact the IRO and the Director of Studies if they have any questions or need support.

Students must apply for the internship using the form (= job description). The form contains the central data of the student and the internship supervision as well as the goals and the tasks/activities in the company providing the internship. The internship is confirmed or approved by the signatures of the Director of Studies and the internship supervisor.

The student must reflect, document and present the experiences and findings gathered and evaluate the internship. Conversely, the internship supervisor must evaluate the students. The student must prepare an interim report, a final report and a presentation and complete an evaluation form. At the beginning of the internship, he/she will receive an internship guide which lists the points to be worked on. A key requirement is to compare the agreed objectives with the achieved ones. The documentation prepared by the student and the supervisor is evaluated by the Director of Studies. If the achievement of the goals and the adaptation to the qualification level of the student are not guaranteed, the corresponding internship position is excluded for the future. A list and reports on the internships are available to subsequent students via the Moodle teaching platform.

2.5 Semester Abroad

The semester abroad is arranged in the 3rd semester of the full-time organizational form. The students deepen their basic knowledge from the first two semesters in business administration and economics as well as in academic and empirical methods. In addition, they acquire competences in communicative processes and presentation. The heterogeneity of the possible teaching contents - which is given by the different partner universities - leads to an individual further development of each individual student within the framework of the curriculum-related broad competence acquisition in the semester abroad. This strengthens and expands individually existing competences and leads to a desired differentiation and individualization of the students in the context of their studies.

In addition to the subject content, the full-time students deepen their knowledge of foreign languages, which they have acquired or expanded in the modules Foreign Language I & II and in the English-language modules. The application of the foreign language knowledge in the university, as well as in daily life, leads to an intensive deepening. In addition, there are competences in intercultural interaction, communication and conflict resolution. Students are able to understand and question different approaches to specific problems in facility management and the real estate industry. They can describe the dynamics of culture, identity and intercultural encounters and comment on values, stereotypes and prejudices. They also learn about intercultural differences in the energy industry. With this acquisition of competence, students gain the opportunity to gain a professional foothold in an international context and to take on tasks in multinational companies or with international business partners.

The FH Kufstein Tirol has been awarded the Erasmus Charter, which is regarded as a European standard of excellence in supporting student and staff mobility. In addition, the objectives of the Bologna Process on the mutual recognition of diplomas will be fully implemented. The implementation is based on the European Credit Transfer System-ECTS for calculating students' performance and the Diploma Supplement. In these areas the FH Kufstein Tirol was awarded the ECTS Label and the Diploma Supplement Label.

The International Relations Office (IRO) of the FH Kufstein, in cooperation with the degree courses, organizes an information event in the winter semester of each year on the topics of "semesters abroad and internships", as well as the annual "Exchange Fair". The course of studies promotes the exchange of students from different years in order to pass on organizational experiences around the semester abroad. In addition, the IRO and the course team are constantly available for advice.

The part-time students acquire the same curricular knowledge in the 3rd semester. In addition, the module "International Facility Management & Real Estate Development - Practice, Research & Study Trip" in the 6th semester provides intercultural skills. These serve as competences for an international professional career.

3 ADMISSION REQUIREMENTS

The admission requirements at the FH Kufstein Tirol are regulated according to the following terms:

1. The general admission requirements are regulated by § 4 FHG as amended; it applies to **persons with a general university entrance qualification**.

2. **Persons without a school-leaving certificate** must take a **university entrance examination** according to § 64 a UG 2002 as amended. These persons acquire the general university entrance qualification for Bachelor studies in a specialization group by passing the university entrance examination in accordance with an ordinance issued by the Rector's Office of a University. The successful completion of the university entrance examination thus entitles the holder to admission to all studies in the specialization group for which the university entrance qualification was acquired. The university entrance examination can be obtained for certain groups of subjects in accordance with an ordinance of the Rector's Office of a university, whereby the following group of subjects is relevant for the FH Kufstein:
Social and economic studies (e.g. Business Administration, Economic Education, Statistics, Sociology).

Applicants who have completed a 3-year **vocational, middle school**, a **training in the dual system** or a **subject-relevant German advanced technical college certificate** obtain the entitlement to study at the FH Kufstein Tirol through additional examinations in the subjects German, English and Mathematics. In the case of the German advanced technical college certificate, the additional examination must only be taken in those of the three subjects in which the grade is "inadequate" or worse. All additional examinations must be passed before the start of the third semester.

3. For **individuals with relevant dual training** the **apprenticeship certificate** in one of the following **special fields** according to the respectively valid announcement of the Federal Ministry of Economics, Family and Youth is valid as an admission requirement:

- Construction
- Banks
- Office, Administration, Organization
- Chemistry
- Electrical Engineering, Electronics
- Trade
- Information and Communication Technologies
- Metal Technology and Mechanical Engineering
- Transport and Storage

4. **Persons with a degree** from one of the relevant **vocational middle schools** listed below may also be admitted:

- Commercial schools (at least two years)
- Vocational, technical and applied arts schools (at least three years)
- Vocational schools for economic professions (at least three years)
- Vocational schools for agricultural and forestry occupations (at least three years)
- Commercial schools (at least three years)

Newly emerging apprenticeships in similar fields must be recognized accordingly.

The **group of persons under numbers 3. and 4.** must complete **additional examinations** by the beginning of the third semester as an entry requirement and, if necessary, take appropriate preparatory courses. This is possible at the FH Kufstein.

The following additional examinations are required for this group of people:

- German
- English
- Mathematics

Below is an overview of which subject area of the German FOS/BOS is the relevant admission requirement. Here, additional examinations must be taken within the first semesters in the subjects Mathematics, German and English (if a grade of "poor" or worse was achieved in these subjects).

Admission requirements FOS/BOS

	FMI bbB
FOS	
- Technology	X
- Economics & Administration	X
- Social Welfare	X
- Agriculture, Biotechnology and Environmental Technology	X
- Design	X
- Health	X
- International Business Studies	X
BOS	
- Technology	X
- Economics & Administration	X
- Social Welfare	X
- Agriculture, Biotechnology and Environmental Technology	X
- Health	X
- International Business Studies	X
In the case of relevant internships (construction, real estate, technology), other disciplines can also be accepted (after consultation with the Director of Studies)	