

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: Full-time and part-time Duration: 6 Semesters Scope: 180 ECTS Places for beginners per academic year: 30 full-time 25 part-time



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With the amendment to the University Act 2020, the so-called "University of Applied Sciences Studies Act (FHStG)" has been renamed "University of Applied Sciences Act (FHG)". Accordingly, a necessary editorial adjustment was made in this document on January 13th, 2021 and the name FHStG was replaced by FHG.



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 0788¹ 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:

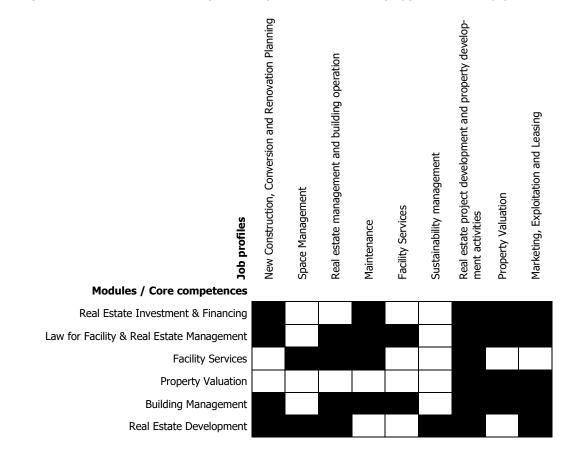
- Real Estate Investment & Financing
- Law for Facility & Real Estate Management
- Facility Services
- Property Valuation
- Building Management

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	Curricu- lum/modules
		Can take measurements and make simple building designs	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering II
New Construction,	Preparation of deci- sions on construction projects	Knowledge of structural re- quirements	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering II
Conversion and Ren- ovation Planning		Can incorporate technical build- ing requirements into a planned project	Professional-Aca- demic Competen- cies/ Technology	Technical Build- ing Facilities II
		Can apply methods of invest- ment calculation and financing and their calculations	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing



	Analysis and optimiza- tion of workflows and processes	Know the processes of facility management and can analyze them	Professional-Aca- demic Competen- cies/ Technology	Fundamentals of Facility Manage- ment
Space Management	Design and redesign	Can analyze design types and rules	Professional-Aca- demic Competen- cies/ Technology	Real Estate De- velopment
	of workplaces	Can create occupancy plans and area concepts	Professional-Aca- demic Competen- cies/ Technology	Facility Services
	Tasks of building man- agement	Can manage properties	Professional-Aca- demic Competen- cies/ Technology	Building Manage- ment
	Tasks of the property management	Know the activities of the prop- erty management	Professional-Aca- demic Competen- cies/ Technology	Building Manage- ment
Real estate manage- ment and building operation		Understand technical require- ments and work out solutions	Professional-Aca- demic Competen- cies/ Technology	Technical Build- ing Facilities II
	Analysis of optimiza- tion potentials	Can measure user satisfaction	Professional-Aca- demic Competen- cies/ Technology	Fundamentals of Facility Manage- ment
		Can collect and evaluate key performance indicators for measuring performance	Professional-Aca- demic Competen- cies/ Technology	Building Manage- ment
	Maintenance measures	Understanding of maintenance (inspection, servicing and re- pair)	Professional-Aca- demic Competen- cies/ Technology	Fundamentals of Facility Manage- ment
		Description of qualities and ser- vices	Professional-Aca- demic Competen- cies/ Technology	Facility Services
Maintenance		Understanding of materials and designs	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering I
Hantenance	Planning and coordina- tion of measures	Understanding of technical building equipment	Professional-Aca- demic Competen- cies/ Technology	Building Services Engineering I
		Understanding maintenance strategies	Professional-Aca- demic Competen- cies/ Technology	Facility Services
		Identifying legal areas of facil- ity management	Professional- technical compe- tences/ law	Law for Facility & Real Estate Man- agement
	Planning and coordina- tion of services	Defining service quality levels	Professional-Aca- demic Competen- cies/ Technology	Facility Services
Facility Services	Occupancy planning	Analyzing use of space	Professional-Aca- demic Competen- cies/ Technology	Facility Services
. actincy Services		Describing relocation processes	Professional-Aca- demic Competen- cies/ Technology	Facility Services
	Cleaning planning	Calculating cleaning services	Professional-Aca- demic Competen- cies/ Technology	Facility Services



	Optimization of energy consumption	Can create energy audits	Professional-Aca- demic Competen- cies/ Technology	Facility Services
	Software as support	Know CAFM implementations	Professional-Aca- demic Competen- cies/ Technology	Facility Services
		Can create technical solutions for buildings (heating, cooling and ventilation)	Professional-Aca- demic Competen- cies/ Technology	Technical Build- ing Facilities I
	Energy use and en-	Can create technical building solutions (sanitary and con- veyor systems)	Professional-Aca- demic Competen- cies/ Technology	Technical Build- ing Facilities II
Sustainability man- agement	ergy saving	Know the fundamentals of building physics	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering I
		Can check and evaluate com- ponent superstructures	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering II
	Lifecycle assessment	Knowledge of principles and ef- fects of sustainability aspects	Professional-Aca- demic Competen- cies/ Technology	Fundamentals of Facility Manage- ment
	Preparation of devel- opment and feasibility studies	Know public law provisions of building law	Professional-Aca- demic Competen- cies/ Technology	Real Estate De- velopment
	Legal situation	Know legal regulations (in par- ticular trade regulations, BTVG)	Professional-Aca- demic Competen- cies/ Economics	Law for Facility & Real Estate Man- agement
	Analysis of sites	Can carry out site analyses	Professional-Aca- demic Competen- cies/ Technology	Real Estate De- velopment
	Market analysis	Can carry out market analyses	Professional-Aca- demic Competen- cies/ Economics	Fundamentals of Business Admin- istration & Eco- nomics / Real Es- tate Development
Real estate project development and property develop- ment activities	Creating utilization concepts and design	Can create typical designs and component superstructures	Professional-Aca- demic Competen- cies/ Technology	Civil Engineering II
	variants	Knows design typologies and can create concepts	Professional-Aca- demic Competen- cies/ Technology	Real Estate De- velopment
	Marketing measures	Know the tools of real estate marketing	Professional-Aca- demic Competen- cies/ Economics	Fundamentals of Business Admin- istration & Eco- nomics / Real Es- tate Development
	Carry out profitability	Can understand and apply in- vestment calculations	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing
	calculations	Know financing models	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing



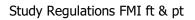


		Can create profitability anal- yses	Professional-Aca- demic Competen- cies/ Economics	Real Estate De- velopment
	Development of over- all concepts	Can prepare a feasibility study	personal and so- cial skills	International Fa- cility Manage- ment & Real Es- tate Development
	vestr		Professional-Aca- demic Competen- cies/ Economics	Fundamentals of the Real Estate Industry
		Can understand and apply in- vestment calculations	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing
Property valuation	Valuation of real es- tate	Knowledge of economic inter- relationships	Professional-Aca- demic Competen- cies/ Economics	Selected Topics Economics
		Know the real estate and capi- tal market conditions	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing
		Can apply valuation techniques	Professional-Aca- demic Competen- cies/ Economics	Property Valua- tion
	Support in recycling	Understand the fundamentals of marketing	Professional-Aca- demic Competen- cies/ Economics	Fundamentals of Business Admin- istration & Eco- nomics
Markoting Exploita		Know the real estate and capi- tal market conditions	Professional-Aca- demic Competen- cies/ Economics	Real Estate In- vestment & Fi- nancing
Marketing, Exploita- tion and Leasing	Sales activities	Know the tools of real estate marketing	Professional-Aca- demic Competen- cies/ Economics	Fundamentals of Business Admin- istration & Eco- nomics / Real Es- tate Development
	Property rental	Know the legal areas of the real estate industry	Professional-Aca- demic Competen- cies/ Economics	Law for Facility & Real Estate Man- agement

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 inde- pendently develop solutions in a practical environment	personal and so- cial skills	Practical Project I
		Understands problems and can independently develop solu- tions in the practical environ- ment as well as in research and development	personal and so- cial skills	Practical Project II
	Communicating results	Can use different forms of communication, presentations, etc.	personal and so- cial skills	Social skills





		Can communicate in a profes- sional environment	personal and so- cial skills	Internship
Concerns all profes- sional fields of activ- ity	Entrepreneurial think- ing	Know the contexts of business management	Professional-Aca- demic Competen- cies/ Economics	Introduction to Business Admin- istration & Eco- nomics
	Interdisciplinary work	Can work on projects in inter- disciplinary and intercultural teams	Professional-Aca- demic Competen- cies/ Economics	International Fa- cility Manage- ment & Real Es- tate Development
	Communicating inter- nationally	Ability to communicate in an international environment	personal and so- cial skills	Foreign language I+II+III
	Practical application	Can apply acquired knowledge in practice	personal and so- cial skills	Internship
		Can research and prepare problem areas and findings	personal and so- cial skills	Academic & Em- pirical Methods
	Academic approach	Know academic methods and their empirical investigations	personal and so- cial skills	Selected Topics on Academic & Empirical Meth- ods
		Can apply academic methods based on own empirical research.	personal and so- cial skills	Bachelor Thesis



2 CURRICULUM

2.1 Curriculum Data

Curriculum data (Depending on how the course of studies is organized, "FT" or "PT" or "FT"+"PT" must be filled out.)

	FT	РТ	Comment if applicable
First year of study (YYY/YY+1)	2020/21	2020/21	
Standard duration of study (number of semesters)	6	6	
Obligatory WSH (Total number for all sem.)	65	86	In the FT program, a semester abroad with weekly semester hours of the respective partner universities takes place within the specified weekly semester hours.
Course weeks per semester (number of weeks)	15	15	
Obligatory LVS (Total for all sem.)	975	1.290	In the full-time program, a se- mester abroad with contact hours of the respective partner universities takes place within the specified weekly semester hours.
Obligatory ECTS (Total for all sem.)	180	180	
WS start (Date, comm.: poss. CW)	CW 40	CW 40	
WS end (Date, comm.: poss. CW)	CW 7	CW 7	
SS start (Date, comm.: poss. CW)	CW 10	CW 10	
SS end (Date, comm.: poss. CW)	CW 28	CW 28	
WS weeks	15	15	
SS weeks	15	15	
Obligatory semester abroad (semester specification)	3	-	
	German/English	German/English	The percentage of English-lan-
Course language (specify)	Percentage of English-lan- guage teaching events 23.21%	Percentage of English-lan- guage teaching events 22.73	guage courses amounts to at least 20% of the WSH
Internship (semester information, duration in weeks (at 40 h per week) per semester))	6th semester, 12 weeks	6th semester, 5 weeks	

Resulting from the merging of the study programs or from the separation from

the study program

(StgKz; to be specified only for merging or separation)



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 AWSH² 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.

2.2.1 Curriculum matrix full-time

1st semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
GFM	Fundamentals of Facility Management	ILV	х		30%	3.5	1	3.5	52.5	GFM	7
GIM	Fundamentals of the Real Estate Industry	ILV			30%	3.5	1	3.5	52.5	GIM	7
SPR.1	Foreign Language I	ILV			15 %	2	2	4	60	SPR.1	3
TEC.1	Civil Engineering I	ILV	Х		30%	3	1.25	3.75	56.25	TEC.1	6
WIS.1	Academic & Empirical Methods	ILV			50 %	3.5	1.25	4.375	65.625	WIS.1	7
Total line:	•					15.5		19.125	286.87		30
LVS = Tota	I WSH * LV weeks					232.5					

2nd semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
ECO.1	Fundamentals of Business Administration & Economics (E)	ĬĹV		Х	30%	4	1	4	60	ECO.1	6
FIN	Real Estate Finance and Investment (E)	ILV		Х	30%	3	1	3	45	FIN	6
REC	Law for Facility & Real Estate Management	ILV			30%	3	1	3	45	REC	6
SPR.2	Foreign Language II	ILV			15 %	4	2	8	120	SPR.2	5
TEC.2	Civil Engineering II	ILV	х		30%	3.5	1.5	5.25	78.75	TEC.2	7
Total line:	l					17.5		23.25	348.75		30
LVS = Tota	I WSH * LV weeks					262.5					

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



3rd semester

Module no.	Module designation	Course	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
ECO.2	Selected Topics Business Administration	type ILV			0 %	0	1	0	0	ECO.2	8
SOC	Selected Topics Social Competences & Presen- tation	ILV			0 %	0	1	0	0	SOC	7
VWL	Selected Topics Economics	ILV			0 %	0	1	0	0	VWL	10
WIS.2	Selected Topics on Academic & Empirical Methods	ILV			0 %	0	1	0	0	WIS.2	5
Total line:						0		0	0		30
LVS = Tota	I WSH * LV weeks					0					

4th semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
DEV.1	Real Estate Development	ILV	Х		30%	4.5	1.2	5.40	81.00	DEV.1	9
PRX.1	Practical Project I	ILV	Х		15 %	3	2.33	6.99	104.85	PRX.1	6
SER	Facility Services	ILV	Х		30%	2.5	1	2.5	37.5	SER	5
TEC.3	Technical Building Facilities I	ILV	Х		30%	3	1.2	3.6	54.0	TEC.3	6
VAL	Property Valuation	ILV			30%	2	1	2	30	VAL	4
Total line:						15.0		20.49	307.35		30
LVS = Tota	WSH * LV weeks					225.0					

5th semester

Module no.	Module designation	Module type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
BEW	Real Estate Management	ILV	Х		30%	2	1	2	30	BEW	4
DEV.2	International Facility Management & Real Es- tate Development - Project & International Week (E)	ILV	Х	Х	20 %	6	2	12	180	DEV.2	12
PRX.2	Practical Project II	ILV	Х		0 %	2.5	2.6	6.50	97.50	PRX.2	5
SPR.3	Foreign Language III	ILV			15 %	3	2	6	90	SPR.3	4
TEC.4	Technical Building Facilities II	ILV	Х		30%	2.5	1	2.5	37.5	TEC.4	5
Total line:						16.0		29.00	435.00		30
LVS = Tota	I WSH * LV weeks					240.0					



6th semester

Module n	o. Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
PRX.3	Internship	BPR	Х		100 %	0.5	1	0.5	7.5	PRX.3	20
WIS.3	Bachelor Thesis Seminar	ILV	Х		50 %	0.5	1	0.5	7.5	WIS.3	10
Total line	:					1.0		1.0	15.0		30
LVS = To	tal WSH * LV weeks					15.0					

Summary of full-time curriculum data

Description	WSH	AWSH	ALVS	ECTS
Total number of courses over all semesters	65	92.86	1,392.98	180
Total number of courses in 1st year of study	33	42.38	635.62	60
Total number of courses in 2nd year of study	15	20.49	307.35	60
Total number of courses in 3rd year of study	17	30	450	60
Total number of technical events over all semesters	37			102
Percentage of technical courses over all semesters based on WSH / ECTS	56.92 %			56.67 %
Total number of courses in English over all semesters	13			24
Proportion of courses in English over all semesters based on WSH / ECTS	23.21 %			14.29 %
Proportion of eLearning units over all semesters based on WSH	26.92 %			31.67 %



2.2.2 Curriculum matrix part-time

1st semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
GFM	Fundamentals of Facility Management	ILV	х		30%	3.5	1	3.5	52.5	GFM	7
GIM	Fundamentals of the Real Estate Industry	ILV			30%	3.5	1	3.5	52.5	GIM	7
SPR.1	Foreign Language I	ILV			15 %	2	2	4	60	SPR.1	3
TEC.1	Civil Engineering I	ILV	х		30%	3	1.25	3.75	56.25	TEC.1	6
WIS.1	Academic & Empirical Methods	ILV			50 %	3.5	1.25	4.375	65.625	WIS.1	7
Total line:						15.5		19.125	286.87		30
LVS = Tota	I WSH * LV weeks					232.5					

2nd semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
ECO.1	Fundamentals of Business Administration & Economics (E)	ILV		Х	30%	4	1	4	60	ECO.1	6
FIN	Real Estate Financing & Investment	ILV			30%	3	1	3	45	FIN	6
REC	Law for Facility & Real Estate Management	ILV			30%	3	1	3	45	REC	6
SPR.2	Foreign Language II	ILV			15 %	4	2	8	120	SPR.2	5
TEC.2	Civil Engineering II	ILV	Х		30%	3.5	1.5	5.25	78.75	TEC.2	7
Total line:						17.5		23.25	348.75		30
LVS = Tota	WSH * LV weeks					262.5					

3rd semester

Module r	no. Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
ECO.2	Selected Topics Business Adminstration (E)	ĬĹV		Х	30%	4	1	4	60	ECO.2	8
SOC	Selected Topics Social Competences & Presen- tation	ILV			30%	3.5	1	3.5	52.5	SOC	7
VWL	Selected Topics Economics	ILV			30%	5	1	5	75	VWL	10
WIS.2	Selected Topics on Academic & Empirical Methods	ILV			30%	2.5	1	2.5	37.5	WIS.2	5
Total line	2:					15.0		15.0	225.0		30
LVS = To	otal WSH * LV weeks					225.0					



4th semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
DEV.1	Real Estate Development	ILV	Х		30%	4.5	1.2	5.40	81.00	DEV.1	9
PRX.1	Practical Project I	ILV	Х		15 %	3	2.33	6.99	104.85	PRX.1	6
SER	Facility Services	ILV	Х		30%	2.5	1	2.5	37.5	SER	5
TEC.3	Technical Building Facilities I	ILV	Х		30%	3	1.2	3.6	54.0	TEC.3	6
VAL	Property Valuation	ILV			30%	2	1	2	30	VAL	4
Total line:						15.0		20.49	307.35		30
LVS = Tota	I WSH * LV weeks					225.0					

5th semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
BEW	Real Estate Management	ILV	х		30%	2	1	2	30	BEW	4
DEV.2	International Facility Management & Real Es- tate Development - Project & International Week (E)	ILV	Х	Х	20 %	6	2	12	180	DEV.2	12
PRX.2	Practical Project II	ILV	Х		0 %	2.5	2.6	6.50	97.50	PRX.2	5
SPR.3	Foreign Language III	ILV			15 %	3	2	6	90	SPR.3	4
TEC.4	Technical Building Facilities II	ILV	Х		30%	2.5	1	2.5	37.5	TEC.4	5
Total line:						16.0		29.00	435.00		30
LVS = Tota	I WSH * LV weeks					240.0					

6th semester

Module no.	Module designation	Course type	Т	E	eLV	WSH	No. of groups	AWSH	ALVS	MODULE	ECTS
DEV.3	International Facility Management & Real Es- tate Development - Practice, Research & Study Trip (E)	ILV	Х	Х	30%	3.5	1	3.5	52.5	DEV.3	6
PRX.3	Internship	BPR	Х		70 %	3	1	3	45	PRX.3	14
WIS.3	Bachelor Thesis Seminar	ILV	х		50 %	0.5	1	0.5	7.5	WIS.3	10
Total line:						7.0		7.0	105.0		30
LVS = Tota	I WSH * LV weeks					105.0					



Abbreviations	
eLV	E-learning proportion of course in percent
E	Lecture in English language
ECTS	ECTS – Credit points
LV	Course
LVS	Course hour(s)
WSH	Weekly semester hour(s)
Т	Lecture with technical background

Summary of part-time curriculum data

Description	WSH	AWSH	ALVS	ECTS
Total number of courses over all semesters	86	113.86	1,707.98	180
Total number of courses in 1st year of study	33	42.38	635.62	60
Total number of courses in 2nd year of study	30	35.49	532.35	60
Total number of courses in 3rd year of study	23	36	540	60
Total number of technical events over all semesters	43			102
Percentage of technical courses over all semesters based on WSH / ECTS	50 %			56.67 %
Total number of courses in English over all semesters	17.5			32
Proportion of courses in English over all semesters based on WSH / ECTS	22.73 %			19.05 %
Proportion of eLearning units over all semesters based on WSH	28.66 %			32 %



2.3 Modularization

2.3.1 Module descriptions full-time

Module number:		Scope:	
GFM	Fundamentals of Facility Management	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sen	nester / E	CTS: 7
Literature recommendation	 Krimmling, J., 2013. Facility Management. Strukturen und methodisch updated edition. Stuttgart: Fraunhofer IRB Verlag. Gondring, H. and T. Wagner, 2018. Facility Management: Handbuch f xis. 3rd completely revised edition. Munich: Vahlen. Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Eben agements. Berlin: Springer Vieweg. 	für Studiu	m und Pra-
Skills acquisition	 Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem The students are able to: To present the development and history of facility management in an text and to describe different international views of facility management. To demonstrate the benefits of facility management and to demonstrat differences to disciplines such as Corporate Real Estate 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 ment. To identify essential standards in facility management and to explain to cation. To explain definitions of quality and to present requirements and task ment systems. To describe a real estate benchmarking process and identify possible states. 	internatio t. ate similar REM), rea efine user by facility their areas s of qualit	nal con- ities and I estate and cus- manage- s of appli- y manage-
	 Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sen History of Facility Management in different countries Definitions and meanings of Facility Management in an international of 	nester / E	<u>CTS: 7</u>
Course contents	 similarities and differences to other disciplines Models, processes and tasks in facility management Terms like service level agreement, key performance indicator, facility agreement, service Normative framework in facility management Definitions and measurement of customer and user satisfaction Definition of quality and structure of a quality management system The process of real estate benchmarking Definition of sustainability and presentation of sustainability in facility 		
Teaching and learning methods	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem Blended Learning	iester / EC	<u>TS: 7</u>
Evaluation Methods Criteria	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem	ester / EC	<u>TS: 7</u>
	Written exam		



Module number:		Scope:	•
GIM	Fundamentals of the Real Estate Industry	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st	semester	/ ECTS: 7
Literature recommendation	 Malloth, T., et at., 2013. Immobilienmanagement Österreich. 5th editi Wendlinger, P., 2018. Immobilienkennzahlen. 2nd edition. Vienna: Lir Brauer, K., et al., 2019. Grundlagen der Immobilienwirtschaft. 10th ed Gabler Verlag. 	de.	
Skills acquisition	 Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st s 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 concessubsequent in-depth courses and argue with real estate economics term 	epts and t	
Course contents	 Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st semester / ECTS: 7 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 the Real Estate Industry /ILV / Course no.: GIM / 1st s Blended Learning	emester /	' ECTS: 7
Evaluation Methods Criteria	Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st s Written exam	emester /	<u>′ ECTS: 7</u>



Module number:	L	Scope:	
SPR.1	Foreign Language I	3	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	1st semester		
Level	1st semester: Introduction or consolidation		
Previous knowledge	1st semester: French, Italian, Spanish Module with objective A2: no previous knowledge allowed Module with objective B2: Previous knowledge required Chinese, Russian Module with objective A2: no previous knowledge allowed English, German Module with objective B2: Level B1 (GER) or English advanced course r Module with objective C1: Level B2 (GER) require Module with objective C2: Level C1 (GER) require	equired	
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
- · ·	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3		
Literature recommendation	Course book - by arrangement; authentic materials, e.g. from English language journals (in- cluding specialist journals), newspapers and online media		
Skills acquisition	The modules are designed according to the Common European Framew Languages (CEFR). In the modules, students will acquire the language the skills necessary for a business-oriented professional or academic act The following competences are taught according to CEFR, i.e. after com- ule, successful graduates will have mastered the following activities: A1 - Beginner Can understand and use familiar everyday expressions and very simple satisfying specific needs. Can introduce him/herself and others and ask tions about him/herself - e.g. where he/she lives, people he/she knows has - and can answer questions of this kind. Can communicate in a sim- locutors speak slowly and clearly and are willing to help. A2 - Basic knowledge Can understand sentences and frequently used expressions related to a diate relevance (e.g. personal and family information, shopping, work, I communicate in simple, routine situations involving a simple and direct mation on familiar and common matters. Can describe with simple lang background and education, immediate environment and things related to B1 - Advanced language use Can understand the main points when clear standard language is used to familiar matters from work, school, leisure, etc. Can cope with most st tered when travelling in the area where the language is spoken. Can ex- self simply and coherently on familiar topics and personal areas of inter experiences and events, describe dreams, hopes and goals and give bri- nations for plans and views. B2 - Independent use of language Can understand the main contents of complex texts on concrete and ab understands technical discussions in his/her own special field. Can com- neously and fluently that a normal conversation with native speakers is much effort on both sides. Can express himself/herself clearly and in de of topics, explain a point of view on a topical issue and indicate the adv vantages of different options. C1 - Expert language skills Can understand a wide range of demanding, longer texts and also gras	uage skills and develop ic activity. r completion of the mod- s: mple sentences aimed at l ask other people ques- hows or things he/she a simple way if the inter- l to areas of most imme- ork, local area). Can irect exchange of infor- language his/her own ated to immediate needs. used and when it comes nost situations encoun- an express himself/her- interest. Can report on re brief reasons or expla- nd abstract topics; also communicate so sponta- trs is possible without in detail on a wide range	



education and studies. Can express oneself clearly, in a structured and detailed manner on complex matters, using various means of text linking as appropriate.
C2 - Approximate mother-tongue knowledge Can easily understand practically anything he/she reads or hears. Can summarize infor- mation from various written and oral sources, presenting reasons and explanations in a co- herent presentation. Can express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.



	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3
Course contents	A1 - Beginner Understand and use familiar everyday expressions and very simple sentences aimed at sat- isfying specific needs. Introduce himself/herself and others and ask other people questions about him/herself - e.g. where he/she lives, people he/she knows or things he/she has - and answer questions of this kind. Communicate in a simple way if the interlocutors speak slowly and clearly and are willing to help.
	A2 - Basic knowledge Understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. personal and family information, shopping, work, local area). Communicate in simple, routine situations involving a simple and direct exchange of information on famil- iar and common matters. Describe with simple language his/her own background and edu- cation, immediate environment and things related to immediate needs.
	B1 - Advanced language use Use clear standard language and communicate on familiar matters from work, school, lei- sure, etc. Apply relevant conversation skills for travel in the area in which the language is spoken. Express himself/herself simply and coherently on familiar topics and personal areas of interest. Report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views.
	B2 - Independent use of language Express the main contents of complex texts on concrete and abstract topics; participate in technical discussions in his/her own special field. Communicate so spontaneously and flu- ently that a normal conversation with native speakers is possible without much effort on both sides. Express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disadvantages of different options.
	C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meanings. Ex- press himself/herself fluently and spontaneously without having to search for words more often. Use the language effectively and flexibly in social and professional life or in education and studies. Express himself/herself clearly, in a structured and detailed manner on com- plex matters, using various means of text linking as appropriate.
	C2 - Approximate mother-tongue knowledge Effortless communication in all language situations. Summarize information from various written and oral sources, presenting reasons and explanations in a coherent presentation. Express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.
Teaching and Issueins west in the	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3
Teaching and learning methods	Blended Learning
	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3
Evaluation Methods Criteria	The performance and competence of the students in reading comprehension, listening com- prehension, written expression, oral expression and the quality of their cooperation (also online) are taken into account for the assessment.



Module number:		Scope:	•
TEC.1	Civil Engineering I	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
Literature recommendation	 Neroth, G. and D. Vollenschaar, 2011. Wendehorst Baustoffkunde: G stoffe – Oberflächenschutz. Wiesbaden: Vieweg+Teubner Verlag. Backe, H., 2008. Baustoffkunde: Für Ausbildung und Praxis, 11th edit ner Verlag. Herrmann, H. and W. Krings, 2017. Kleine Baustatik: Grundlagen der nung von Bauteilen, 18th edition. Wiesbaden: Springer Vieweg. Lutz, P et. al., 2013. Lehrbuch der Bauphysik: Schall, Wärme, Feucht Klima. Wiesbaden: Springer Vieweg. Pech, A. and C. Pöhn, 2018. Bauphysik Wärme – Feuchte – Schall – B Birkhäuser. 	cion. Colo <u>c</u> Statik und e, Licht, B	ne: Wer- d Berech- rand,
Skills acquisition	 <u>Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6</u> The students are able to: Describe the most important construction and materials as well as corand compare their differences. Classify construction materials and materials according to their physic Identify and classify causes and avoidance of structural defects and d Understand the basic principles of structural mechanics Understand basic building physics (heat, sound and humidity) 	al propert	es
	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
Course contents	 Basic knowledge and overview of common building materials for construction and fing Assessment and selection of building materials according to technical and economic acteristics Basic knowledge of structural mechanics Building physics (heat, sound and humidity) Construction defects and structural damage with regard to cause and avoidance 		omic char- e
	The module contains 25% exercises. This form of teaching takes place	in small g	roups.
Teaching and learning methods	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
	Blended Learning		
Evaluation Methods Criteria	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
	Written exam		



Module number:	And density O. Francisco I. Matheada	Scope:	
WIS.1	Academic & Empirical Methods	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester	/ ECTS: 7	,
Literature recommendation	 Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfo und Masterarbeit. Munich: Franz Vahlen Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: De analyse. 7th edition. Berlin: Springer Fahrmeir, L., Kneib, T. & Lang, S., 2009. Regression: Modelle, Method gen. 2nd edition. Berlin: Springer Hetland, M., 2005. Beginning Python From Novice to Professional. Nev Verlag Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch Galileo Computing Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit Algorithmen in Python. Wiesbaden: Springer 	er Weg zu den und A w York: Sp . 3rd editi	r Daten- nwendun- pringer- on. Bonn:
Skills acquisition	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester 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 explor • Independently analyze and structure data sets as well as present and information	rative stati	stics
Course contents	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester Principles of academia and academic work o Science and academic language o Literature research o Citation and source work o Avoidance of plagiarism Principles of data analysis o Statistical characteristics and variables o Univariate and multivariate description and exploration of data o Correlation and regression analyses o Basic programming knowledge for data preparation o Analysis and presentation of information from data sets The module contains 25% exercises. This form of teaching takes place		
Teaching and learning methods	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester Blended Learning		
Evaluation Methods Criteria	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester Term paper and written exam	<u>/ ECTS: 7</u>	



Module number:		Scope:	
EC0.1	Fundamentals of Business Administration & Economics	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	 Fundamentals of Business Administration & Economics (E) /ILV / Cousemester Vahs, D. and J. Schäfer-Kunz, 2015. Einführung in die Betriebswirtschtion. Stuttgart: Schäffer Poeschel. Thommen, JP. et al., 2017. Allgemeine Betriebswirtschaftslehre: Unaus managementorientierter Sicht. 8th edition. Wiesbaden: Springer G Schweitzer, M. and A. Baumeister, 2015. Allgemeine Betriebswirtschaftslehre: 6th of Springer Gabler. Wöhe, G., U. Döring and G. Brösel, 2016. Einführung in die Allgemein schaftslehre, 26th edition Munich: Vahlen. Weber, W., R. Kabst and M. Baum, 2018: Einführung in die Betriebswiedition Wiesbaden: Springer Gabler. Pindyck, R. S. and D. L. Rubinfeld, 2018. Mikroökonomie. Pearson De Varian, H. R., 2014. Grundzüge der Mikroökonomik. Berlin: Walter de KG.Deutschland GmbH. Münter, M.T., 2018. Mikroökonomie, Wettbewerb und strategisches VUTB GmbH Natrop, J., 2012. Grundzüge der angewandten Mikroökonomie. Berlin GmbH & Co KG.Deutschland GmbH. Kahneman, D., 2012. Schnelles Denken, langsames Denken. Munich: Rifkin, J., 2014. Die Null-Grenzkosten-Gesellschaft: Das Internet der Gemeingut und der Rückzug des Kapitalismus. Frankfurt am Main: Cam Thiel, P., and B. Masters, 2014. Zero to one: Wie Innovation unsere Frankfurt am Main: Campus Verlag. Buchholz, L. and R. Gerhards, 2016. Internes Rechnungswesen, Kost rechnung, Betriebsstatistik und Planungsrechnung. Wiesbaden: Springe Deimel, K. et al., 2017. Kostenrechnung, Das Lehrbuch für Bachelor, Ker. Hallbergmoos: Pearson Geirhofer, S. and C. Hebrank, 2016. Grundlagen Buchhaltung und Bil edition. Vienna: Linde Verlag. Coenenberg, A.G. et. al., 2018. Einführung in das Rechnungswesen: Buchführung und Bilanzierung, 7th edition Stuttgart: Schäffer Poesche Wedell, H. and A.A. Dilling, 2018. Grundlagen des Rechnungswesens NWB Studium Schmidt, M., B. Auer and P. Schmidt, 2017. Bu	haftslehre. nfassende abler. aftslehre. 1 edition. Wi ne Betriebs wirtschafts eutschland e Gruyter C Verhalten. n: Walter c Dinge, kol npus Verla Gesellscha cen- und Le er Gabler Master un anzmanag Grundlage I 5, 16th edit chluss, 4th erung: Ein-	7th edi- Einführung I1th edi- esbaden: swirt- lehre, 10th GmbH & Co Stuttgart: de Gruyter erlag. laboratives g. ft rettet. eistungs- id Prakti- ement, 4th en der cion Herne: i edition. e anwen-
Skills acquisition	 Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 semester / 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 of tutive factors of a company. Recognize relationships in the sense of the various relationships between business fit tions 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 the formation of market forms 		asic consti- ess func-





 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
Skills acquisition	 Explain task fields and solution approaches of cost and revenue accounting with its sub- systems (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 fea- tures of the main cost accounting systems
	• Explain the systems of cost accounting (partial and full cost accounting)
	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd semester
	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, mar-
	keting
	• Fundamentals of business value creation processes and functions (value creation architec-
	 ture and structure) Fundamentals of market-, process- and strategy-oriented management
	Microeconomics and the behavior of managers and companies
Course contents	Price and product policy of companies
	 Elementary principles of game theory Company organization
	Market forms & market entry
	Decisions under uncertainty
	Behavioral economics
	Economy of digitizationExternal 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: Objectives and basic concepts of cost and revenue 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
	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd
Teaching and learning methods	
	Blended Learning
Evaluation Methods Criteria	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd semester /
	Written exam



Module number:		Scope:	•
FIN	Real Estate Finance and Investment	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: Fundamentals of the Real Estate Industry (GIM), Academ ods (WIS.1)	ic & Empi	rical Meth-
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Real Estate Finance and Investment (E) /ILV / Course no.: FIN / 2nd se	mester /	<u>ECTS: 6</u>
Literature recommendation	 Geyer, A., M. Hanke, E. Littich, M. Nettekoven, 2015. Grundlagen der edition. Vienna: Linde Verlag Walch, P., K. Weichselbaum, 2018. Handbuch Immobilienfinanzierung enna: Linde Verlag. Teufelsdorfer, H. et al., 2015. Handbuch Immobilientransaktionen. 2n Linde Verlag. 	. 2nd edit	ion. Vi-
	Real Estate Finance and Investment (E) /ILV / Course no.: FIN / 2nd se	mester / I	<u>ECTS: 6</u>
Skills acquisition	 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 		
	Real Estate Finance and Investment (E) /ILV / Course no.: FIN / 2nd se	mester /	ECTS: 6
Course contents	 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 and Investment (E) /ILV / Course no.: FIN / 2nd se Blended Learning	mester / I	<u>ECTS: 6</u>
Evaluation Methods Criteria	Real Estate Finance and Investment (E) /ILV / Course no.: FIN / 2nd se	mester / I	<u>ECTS: 6</u>
	Written exam		



Module number: Sc		Scope:	
REC	Law for Facility & Real Estate Management	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time	•	
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: Fundamentals of the Real Estate Industry (GIM), Fund Management (GFM)	lamentals	of Facility
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2n	d semeste	er /
Literature recommendation	 Meissel, F., et al., 2016. Grundbegriffe der Rechtswissenschaften, 3rd Manz. Artner, S., Kohlmaier, K., et al., 2017. Praxishandbuch Immobilienrectenna: Linde. Krumschnabel, M., 2015. Immobilienverträge. 1st edition. Kufstein: E Najork, E., et al., 2009. Rechtshandbuch Facility Management. 1st ed ger Kaiser, C., Nusser, J. und f. Schrammel. 2018. Praxishandbuch Facility edition. Wiesbaden: Springer Vieweg. 	ht. 2nd ec igenverlag ition. Berli	lition. Vi- J in: Sprin-
Skills acquisition	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd The students are able to: • Identify and classify legal areas and topics • Understand real estate law areas and their fundamentals, and grasp the • Identify the specifics of the legal area of facility management		
Course contents	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2n • 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, WE • Contract law (including FM contracts, contracts for work and services, repair contracts) • Fundamentals of public procurement law	EG)	
	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	d semeste	<u>r /</u>
Teaching and learning methods	Blended Learning		
Evaluation Methods Criteria	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	l semeste	r <u>/</u>
	Written exam		



Module number:	Familian Lanamana VI	Scope:	
SPR.2	- Foreign Language II	5	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	2nd semester		
Level	2nd semester: Consolidation		
Previous knowledge	2nd semester: Foreign Language I		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5		
Literature recommendation	Course book - by arrangement; authentic materials, e.g. from English language jour cluding specialist journals), newspapers and online media		
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5		
	The modules are designed according to the Common European Framew Languages (CEFR). In the modules, students will acquire the language the skills necessary for a business-oriented professional or academic act	skills and	
	The following competences are taught according to CEFR, i.e. after comule, successful graduates will have mastered the following activities:	pletion of	the mod-
Skills acquisition	A1 - Beginner Can understand and use familiar everyday expressions and very simple satisfying specific needs. Can introduce him/herself and others and ask tions about him/herself - e.g. where he/she lives, people he/she knows has - and can answer questions of this kind. Can communicate in a sim locutors speak slowly and clearly and are willing to help.	other peo or things	ple ques- he/she
	A2 - Basic knowledge Can understand sentences and frequently used expressions related to a diate relevance (e.g. personal and family information, shopping, work, l communicate in simple, routine situations involving a simple and direct mation on familiar and common matters. Can describe with simple lang background and education, immediate environment and things related to	ocal area) exchange uage his/ł). Can of infor- ner own
	B1 - Advanced language use Can understand the main points when clear standard language is used a to familiar matters from work, school, leisure, etc. Can cope with most s tered when travelling in the area where the language is spoken. Can ex self simply and coherently on familiar topics and personal areas of inter experiences and events, describe dreams, hopes and goals and give bri nations for plans and views.	situations press him est. Can r	encoun- self/her- eport on
	B2 - Independent use of language Can understand the main contents of complex texts on concrete and abstract topics; also understands technical discussions in his/her own special field. Can communicate so sponta- neously and fluently that a normal conversation with native speakers is possible without much effort on both sides. Can express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disad- vantages of different options.		
	C1 - Expert language skills Can understand a wide range of demanding, longer texts and also grass Can express him/herself fluently and spontaneously without having to s more often. Can use the language effectively and flexibly in social and p education and studies. Can express himself/herself clearly, in a structur manner on complex matters, using various means of text linking as app	earch for profession ed and de	words al life or in
	C2 - Approximate mother-tongue knowledge Can easily understand practically anything he/she reads or hears. Can so mation from various written and oral sources, presenting reasons and end herent presentation. Can express himself/herself spontaneously, very fill and can also make clear finer nuances of meaning in more complex situ	xplanation Jently and	ns in a co-



	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
Course contents	A1 - Beginner Understand and use familiar everyday expressions and very simple sentences aimed at sat- isfying specific needs. Introduce himself/herself and others and ask other people questions about him/herself - e.g. where he/she lives, people he/she knows or things he/she has - and answer questions of this kind. Communicate in a simple way if the interlocutors speak slowly and clearly and are willing to help.
	A2 - Basic knowledge Understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. personal and family information, shopping, work, local area). Communicate in simple, routine situations involving a simple and direct exchange of information on famil- iar and common matters. Describe with simple language his/her own background and edu- cation, immediate environment and things related to immediate needs.
	B1 - Advanced language use Use clear standard language and communicate on familiar matters from work, school, lei- sure, etc. Apply relevant conversation skills for travel in the area in which the language is spoken. Express himself/herself simply and coherently on familiar topics and personal areas of interest. Report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views.
	B2 - Independent use of language Express the main contents of complex texts on concrete and abstract topics; participate in technical discussions in his/her own special field. Communicate so spontaneously and flu- ently that a normal conversation with native speakers is possible without much effort on both sides. Express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disadvantages of different options.
	C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meanings. Ex- press himself/herself fluently and spontaneously without having to search for words more often. Use the language effectively and flexibly in social and professional life or in education and studies. Express himself/herself clearly, in a structured and detailed manner on com- plex matters, using various means of text linking as appropriate.
	C2 - Approximate mother-tongue knowledge Effortless communication in all language situations. Summarize information from various written and oral sources, presenting reasons and explanations in a coherent presentation. Express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.
Toophing and loorning methods	Foreign Language II / ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
Teaching and learning methods	Blended Learning
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
Evaluation Methods Criteria	The performance and competence of the students in reading comprehension, listening com- prehension, written expression, oral expression and the quality of their cooperation (also online) are taken into account for the assessment.



Module number:	- Civil Engineering II		Scope:	
TEC.2			ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time			
Position in the curriculum	2nd semester			
Level	2nd semester: Introduction and consolidation			
Previous knowledge	2nd semester: Civil Engineering I (TEC.1)			
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7			
Literature recommendation	 Hestermann, U. and L. Rongen, 2009. Frick/Knöll Baukonstruktionslef Vieweg+Teubner Verlag. Kister, J. et al., 2012. Bauentwurfslehre. Wiesbaden: Springer Vieweg Neumann, D., Hestermann, U. and L. Rongen, 2008. Frick/Knöll Bauk 2nd Wiesbaden: Vieweg+Teubner Verlag. Riccabona, C., 2008. Baukonstruktionslehre 1: Rohbauarbeiten. Vienr Riccabona, C. and K. Mezera, 2011. Baukonstruktionslehre 2: Ausbau Manz. Fröhler, R. and R. Mair, 2003. AutoCAD 2002 Grundlagen der 3D-Kon Vienna: Textbook publishing house Leipzig in the Carl Hanser Verlag Frey, H. et al., 2015. Bautechnik Technisches Zeichnen. Haan-Gruiter Lehrmittel). onstruktio a: Manz. arbeiten. struktion.	onslehre Vienna: Munich,	
	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7			
Skills acquisition	 The students are able to: Inspect component superstructures and assess them from a construct Describe structural designs and relevant connection details and create pendently. Understand construction drawings and communicate their characterist Create simple 2D & 3D plans using CAD programs 	them inc		
	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7			
Course contents	 Primary, secondary and tertiary structures Solid, lightweight and system construction methods in shell and finish Communication of the constructive interrelations and detailed solution building construction (new construction and renovation) Requirements (rules and standards) and contents of construction drar ground plans, sections, views and details) Introduction to the functions of a CAD program and application The module contains 50% exercises. This form of teaching takes place 	ns usually wings (sit	found in e plan,	
		oman g		
Teaching and learning methods	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7 Blended Learning			
Evaluation Methods Criteria	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7			
	Term paper and written exam			



Module number:	Coloring During a Administrati	Scope:		
ECO.2	Selected Topics Business Administration	8	ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time			
Position in the curriculum	3rd semester			
Level	3rd semester: Consolidation			
Previous knowledge	3rd semester: Introduction to Business Administration & Economics (E	CO.1)		
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
	Selected Topics Business Administration /ILV / Course no.: ECO.2 / 3rd	l semester	· / ECTS: 8	
	A generally valid description of the teaching content for the semester a should not be defined due to the large number of partner universities a offer, in order to guarantee freedom for students. Depending on the te the semester abroad at the partner universities, correspondingly adapt ture is required.	and the ch aching co	oices they ntent of	
Literature recommendation	As an example, this module is based on the following technical literatu	re:		
Literature recommendation	 Kollmann, T., 2016. E-Entrepreneurship: Grundlagen der Unternehme digitalen Wirtschaft. Wiesbaden: Springer Gabler. Moring, A., L. Maiwald and T. Kewitz, 2018. Bits und Bricks: Digitalisi modellen in der Immobilienbranche. Wiesbaden: Springer Gabler. Osterwalder, A. and Y. Pigneur, 2011. Business Model Generation: Ei näre, Spielveränderer und Herausforderer. Frankfurt a.M.: Campus Ver Plümer, T. and M. Niemann, 2016. Existenzgründung Schritt für Schri baden: Springer Gabler. 	erung von n Handbud lag GmbH	Geschäfts- ch für Visio-	
	Selected Topics Business Administration /ILV / Course no.: ECO.2 / 3rd	semester	/ ECTS: 8	
	A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning outcomes are based on the fundamentals and in-depth knowledge of the individual disciplines in the field of busi- ness administration. The national credits are converted individually into ECTS points corre- sponding to performance where appropriate.			
Skills acquisition	As an example, the students have acquired the following competences:			
	 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 r ness models Market a business model 	esulting n	ew busi-	
	Selected Topics Business Administration /ILV / Course no.: ECO.2 / 3rd	l semester	· / ECTS: 8	
	A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning contents are based on the fundamentals and in-depth knowledge of the individual disciplines in the field of business administration.			
Course contents	As an example, this module has the following teaching contents:			
	 Fundamentals of a company with a focus on digital business models Components of a business plan and creation of one's own business p Business model analysis Fundamentals of marketing business models 	blan		
Teaching and learning methods	Selected Topics Business Administration /ILV / Course no.: ECO.2 / 3rd The respective partner university determines the teaching methods.	semester	/ ECTS: 8	
Evaluation Methods Criteria	Selected Topics Business Administration /ILV / Course no.: ECO.2 / 3rd Students are subject to the respective examination modalities of the pa			



Module number:	Selected Tenics Social Competences & Descentation	Scope:	•
SOC	Selected Topics Social Competences & Presentation	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time	ş	
Position in the curriculum	3rd semester		
Level	3rd semester: Introduction and consolidation		
Previous knowledge	3rd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Selected Topics Social Competences & Presentation /ILV / Course no.	SOC / 3rc	l semester
Literature recommendation	A generally valid description of the teaching content for the semester should not be defined due to the large number of partner universities offer, in order to guarantee freedom for students. Depending on the t the semester abroad at the partner universities, correspondingly adap ture is required.	and the ch eaching co	noices they Intent of
	As an example, this module is based on the following technical literate	ıre:	
	Rosenberg, M., 2012. Gewaltfreie Kommunikation. Paderborn: Junfe Becker, H. and A. Hugo-Becker, 1992. Psychologisches Konfliktmana Beck.		lunich:
	Oboth, M., 2008. Mediation in Teams und Gruppen. Paderborn: Juni	ermann	
	Selected Topics Social Competences & Presentation /ILV / Course no.:	SOC / 3rd	semester /
	A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning outcomes are based on the fundamentals and in-depth knowledge of the individual disciplines in the area of social competences. The national credits are converted individually into ECTS points correspond- ing to performance where appropriate.		
	As an example, the students have acquired the following competences	:	
Skills acquisition	 The students are able to: Present basic concepts of communicative processes and consciously tionship aspects of human communication. Understand motivation and assessment of people in a professional consciously tionship aspects of human communication. Understand motivation and assessment of people in a professional consciously tionship aspects of human communication. Understand motivation and assessment of people in a professional consciously tion strategies and identify and team communication and develop solution strategies. Prepare and conduct presentations and use the techniques and med in a targeted manner Create simple 3D visualizations Create short videos to visualize ideas and concepts with simple tools 	ontext nce) analyze pr ia required	oblems in
	Selected Topics Social Competences & Presentation /ILV / Course no.	SOC / 3rc	l semester
	A generally valid description of the teaching content for the semester should not be defined due to the large number of partner universities offer, in order to guarantee freedom for students. The learning conter fundamentals and in-depth knowledge of the individual disciplines in t petences.	and the ch nts are bas	noices they ed on the
	As an example, this module has the following teaching contents:		-
Course contents	 Basic components of communicative processes, message and meaniand relationship aspects of human communication Language, gestures, facial expressions, posture Possibilities of communication for assessment and motivation Communication problems and conflict solutions Goals and target group as well as structure, content and form of a period selection and application of different presentation techniques and meaniant Coals and target group as well as content and form of 3D visualization Goals and target group as well as structure, content and form of 3D visualization Goals and target group as well as structure, content and form of 3D visualization Selection and application of tools for the creation of 3D visualization Objectives and target group as well as structure, content and form of 	oresentation nedia ons s of short vid	n
Teaching and learning method	ds Selected Topics Social Competences & Presentation /ILV / Course no.:	SOC / 3rd	semester



	The respective partner university determines the teaching methods.
EValuation Mathods (ritoria	Selected Topics Social Competences & Presentation /ILV / Course no.: SOC / 3rd semester / Students are subject to the respective examination modalities of the partner university.



Module number:	Selected Tonics Economics	Scope:	
VWL	Selected Topics Economics	10	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	3rd semester		
Level	3rd semester: Introduction and consolidation		
Previous knowledge	3rd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / EC	TS: 10	
	A generally valid description of the teaching content for the semester a should not be defined due to the large number of partner universities a offer, in order to guarantee freedom for students. Depending on the te the semester abroad at the partner universities, correspondingly adapt ture is required.	and the ch aching co	oices they ntent of
	As an example, this module is based on the following technical literatu	re:	
Literature recommendation	 Krugman, P., R., Wells, 2017. Volkswirtschaftslehre. 2nd edition. Mur Poeschel Pirounakis, N., 2013. Real Estate Economics: A Point-to-Point Handbo Maier, G., F., Tödtling, 2012. Regional- und Stadtökonomik 1: Stando struktur. 5th edition. Vienna: Springer Maier, G., F., Tödtling, 2012. Regionalentwicklung und Regionalpolitil enna: Springer Rottke, N., M., Voigtländer, 2017. Immobilienwirtschaftslehre – Ökon Gabler Verlag 	ook. UK: F orttheorie (<. 4th editi	Routledge. und Raum- on. Vi-
	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / EC	TS: 10	
	A generally valid description of the acquired competences for the seme and should not be defined due to the large number of partner universit they offer, in order to guarantee freedom for students. The learning ou the fundamentals and in-depth knowledge of the individual disciplines i nomics. The national credits are converted individually into ECTS points performance where appropriate.	ies and the tcomes are n the field	e choices e based on of eco-
Skills acquisition	As an example, the students have acquired the following competences:		
	The students are able to: • Describe and apply basic concepts and methods in economics • Critically evaluate and question methods and concepts in economics • Recognize and understand economic interrelations in the context of the try	ne real est	ate indus-
	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / EC	TS: 10	
	A generally valid description of the teaching content for the semester a should not be defined due to the large number of partner universities a offer, in order to guarantee freedom for students. The learning content fundamentals and in-depth knowledge of the individual disciplines in the semester of the individual disciplines in the semester of the individual disciplines in the semester of the	broad can and the ch ts are base	oices they ed on the
Course contents	As an example, this module has the following teaching contents:		
	 Economic theory Microeconomics Macroeconomics Econometrics Regional economy Real estate economics Economic policy Environmental economics 		
Teaching and learning methods	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / EC The respective partner university determines the teaching methods.	TS: 10	
Evaluation Methods Criteria	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / EC	TS: 10	
	Students are subject to the respective examination modalities of the pa	rtner unive	ersity.



W15.2 Selected Topics on Academic & Empirical Methods 5 ECTS Degree program Bachelor Degree Course - Facility & Real Estate Management Full-time Position in the curriculum 3rd semester Level 3rd semester Addition Previous knowledge 3rd semester Blocked no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods (VIS.1) Bioched no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods (VIS.1) Broken no Participant Group context the caching context for the semester abroad cannot and should noc be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching context of the semester abroad at the partner universities, correspondingly adapted specialist literature: • Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer • Fick, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung, Rowohlts Enryklopädie • Jammek, S. 2010. Qualitative Socialforschung, Berlin: Betz • Przyborsk, A. and M. Wohlrab-Sahr, 2010: Qualitative Socialforschung, Berlin: Betz Skills acquisition Selected Topics on Academic & Empirical Methods /ILV / Course no: WIS.2 / 3.	Module number:		Scope:	•
Position in the curriculum 3rd semester Level 3rd semester: Introduction and consolidation Previous knowledge 3rd semester: Academic and Empirical Methods (WIS.1) Blocked no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods /ILV / Course no: WIS.2.1.3, A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee (freedom for students). Depending on the teaching content of the semester abroad at the partner universities, correspondingly adapted specialist litera- ture is required. Literature recommendation As an example, this module is based on the following technical literature: • Ortz, J. and N. Doring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer • Frayborski, A and M. Wohlrab-Sahr, 2010: Qualitative Sozialforschung. Munich: Olden- bourg Selected Topics on Academic & Empirical Methods /ILV / Course no:: WIS.2.1.3. A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choics they offer, in order to guarantee freedom for students. The learning outcomes are based on the fundamentals and in-deth howedego of the individual disciplins in the field of academic the underwalta and choick howedego of the individual disciplins in the field of academic demic and empirical methods. The national credits are converted individual disciplins instructure and acadina disciplin	WIS.2	Selected Topics on Academic & Empirical Methods	5	ECTS
Level 3rd semester: Introduction and consolidation Previous knowledge 3rd semester: Academic and Empirical Methods (WIS.1) Blocked no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods /ILV / Course no: WIS.2 / 3. A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semester abroad a the partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semester abroad at the partner universities and the choices they offer, in order to guarantee freedom for students. Consepondingly adapted specialist itera- ture is required. Literature recommendation As an example, this module is based on the following technical literature: extra 1, and N. Dóring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer elicit, U., E. Kardoff and I. Steinke, 2007. Qualitative Sozialforschung. Berlin: Betz and should not be defined due to the anguired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the offer. Skills acquisition Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2.7.3. Skills acquisition Selected Topics on Academic & Empirical Methods to su	Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time	1	
Previous knowledge 3rd semester: Academic and Empirical Methods (WIS:1) Blocked no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods /ILV / Course no:: WIS.2.7.3, A generally valid description of the teaching content for the semester abroad cannet and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semestar abroad at the partner universities, correspondingly adapted specialist litera- ture is required. Literature recommendation As an example, this module is based on the following technical literature: Bortz, J. and N. Dóring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer Fick, U. J. E. Kandorff and I. Steike, 2007. Qualitative Sozialforschung, Rowchits Enzyklopädie Lamork, S., 2010. Qualitative Sozialforschung, Rowchits Enzyklopädie Lamork, S., 2010. Qualitative Sozialforschung, Rowchits Enzyklopädie Lamork, S., 2010. Qualitative Sozialforschung, Rowchits Enzyklopädie Lamord M. Wohrab-Sahr, 2010: Qualitative Sozialforschung, Munich: Olden- barder in order to guarantee freedom for students. The learning outcomes are based on	Position in the curriculum	3rd semester		
Biocked no Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2./.3, A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they dire is required. Literature recommendation As an example, this module is based on the following technical literature: Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer Flick, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung. Rowohlts Enzyklopädie Lammek, S., 2010. Qualitative Socialforschung. Munich: Oldenborg Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2./.3. A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning outcomes are based on the fulloamentals and in-depth knowledge of the individual disciplines in the field of academic and empirical methods. The national credits are converted individual into ECTS points corresponding to performance where appropriate. Skills acquisition As an example, the students have acquired the following competences: The students are all to: • Describe and apply relevant quantitative and qualitative academic methods in the subject areseat and independently apply tools and methods to supp	Level	3rd semester: Introduction and consolidation		
Participant group A-levels and/or corresponding previous training, beginners Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2./ 3, A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semester abroad at the partner universities, correspondingly adpets specialist litera- ture is required. Literature recommendation As an example, this module is based on the following technical literature: Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer = Fick, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung. Rowohits Enzyklopädie = Lamnek, S., 2010. Qualitative Soziaflorschung. Berlin: Belz: = Przyborski, A. and M. Wohirab-Sahr, 2010: Qualitative soziaflorschung. Munich: Olden- bourg Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2.7.3. A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning outcomes are based on the fundamentalis and in-depth knowledge of the individual disciplines in the field aca- demic and empirical methods. The national credits are converted individually into ECTS points corresponding to performance where appropriate. Skills acquisition Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2.7.3. The students are able to: • Description and circlal prefetor on results in a comprehensible way Select and independe	Previous knowledge	3rd semester: Academic and Empirical Methods (WIS.1)		
Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2./ 3, A generally valid description of the teaching content for the semester abroad cannot and bould not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semester abroad at the partner universities, correspondingly adapted specialist litera- ture is required. Literature recommendation As an example, this module is based on the following technical literature: • Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer • Filck, U. E. Kardorff and I. Steinke, 2007. Qualitative Foszialforschung, Nowohts Enzyklopädie • Lamnek, S., 2010. Qualitative Sozialforschung. Berlin: Belz • Preptorski, A. and M. Wohirab-Sahr, 2010: Qualitative Foszialforschung. Munich: Olden- bourg Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2./ 3. A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. The learning outcomes are based on the fundamentals and in-depth knowledge of the individual disciplines in the field of aca- demic and empirical methods. Skills acquisition • Select and independently apply tools and methods to support data collection and analysis. Skills acquisition • Select and independently apply tools and methods to support data collection and analysis. Skills acquisition • Select and independently apply tools and methods to support data collection and analysis. • Usual	Blocked	no		
A generally valid description of the teaching content for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices they offer, in order to guarantee freedom for students. Depending on the teaching content of the semester abroad at the partner universities, correspondingly adapted specialist literature is required. Literature recommendation As an example, this module is based on the following technical literature: • Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer • Filck, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung, Rowohts Enzyklopädie • Lamnek, S., 2010. Qualitative Sozialforschung, Berlin: Elez • Przyborski, A. and M. Wohirab-Sahr, 2010: Qualitative Sozialforschung, Berlin: Berlz • Przyborski, A. and M. Wohirab-Sahr, 2010: Qualitative Sozialforschung, Berlin: Steiz • Przyborski, A. and M. Wohirab-Sahr. 2010: Qualitative Sozialforschung. Munich: Oldenburg Skills acquisition Selected Topics on Academic & Empirical Methods /ILV / Course no: WIS-2 / 3. A generally valid description of the acquired competences for the semester abroad cannot and should not be defined due to the large number of partner universities and the choices a based on the fourdamentals and in-depth knowledge of the individual disciplines in the field of academic and apply relevant quantitative and qualitative academic methods in the subject area Skills acquisition As an example, the students have acquired the following competences: The students are able to: • Describe and apply relevant quantitative and qualitative academic methods in the subje	Participant group	A-levels and/or corresponding previous training, beginners		
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Teaching and learning methods The respective partner university determines the teaching methods. Evaluation Methods Criteria Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2 / 3.	Course contents	 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 		
Evaluation Methods Criteria Selected Topics on Academic & Empirical Methods /ILV / Course no.: WIS.2 / 3.	Teaching and learning method	S	VIS.2 / 3.	
	Evaluation Methods Criteria	Selected Topics on Academic & Empirical Methods /ILV / Course no.: W		ovoliti i



Module number:		Scope:	
DEV.1	Real Estate Development	9	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Fundamentals of the Real Estate Industry (GIM), Fund Management (GFM), Real Estate Investment & Financing (FIN), Civil Eng Law for Facility & Real Estate Management (REC), Selected Topics So Presentation (SOC)	gineering I	II (TEC.2),
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / EC	TS: <u>9</u>	
Literature recommendation	 Bone-Winkel, S. and K. Schulte, 2008. Handbuch Immobilien-Projektet tion. Cologne: Rudolf Müller - Immobilien Manager Verlag. Diederichs, C., 2006. Immobilienmanagement im Lebenszyklus: Proje jektmanagement, Facility Management, Immobilienbewertung. Berlin: S Kallinger, W., Gartner,H. and W. Stingl, 2011. Bauträger & Projektent erfolgreich Entwickeln, Sanieren und Verwerten. Vienna: Manz. Klaubetz, E. et. al., 2016. Handbuch Immobilienprojektentwicklung. V Schäfer, J. and G. Conzen, 2013. Praxishandbuch der Immobilien-Pro- nich: C.H.Beck. 	ktentwickl Springer. wickler: In 'ienna: Lin	ung, Pro- mmobilien ide.
Skills acquisition	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECT 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 and them independently • Evaluate and create simple building and use concepts • Present milestones in the processes of the planning and construction (Identify building typologies and analyze and create function-oriented a • Analyze design rules • Reproduce important architectural historical data, characteristics and o • Make sketches (2D and 3D) as a basis for communication in the const • Present, analyze and exemplary apply methods and instruments of rea • Identify project development tasks and types of project developers, un framework conditions of the industry and identify overlaps and connection areas of the real estate industry	lyses and phases area alloca correlation ruction se al estate n nderstand	ations Is ctor narketing the
		TS: 9	
Course contents	 <u>Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECTS: 9</u> Public building law (provisions from regional and building regulations) Fundamentals and application of feasibility studies Market, location and competition analyses Use concepts Profitability analyses 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 		
	The module contains 20% exercises. This form of teaching takes place in small group		
	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECI	-	, Jup3.
Teaching and learning methods		5. 5	
Evaluation Methods Criteria	Blended Learning <u>Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECTS: 9</u> Written exam		



Module number:		Scope:	
PRX.1	Practical Project I		ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	4th semester		
Level	4th semester: Introduction and consolidation		
Previous knowledge	4th semester: all contents of the modules from semesters 1, 2 and 3.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
Literature recommendation	 Patzak, G., Rattay, G. (2014) Projektmanagement: Leitfaden zum Marjekten, Projektportfolios und projektorientierten Unternehmen. Linde. PMI Institute, 2009. A Guide to the Project Management Body of Kno Kraus, G. and R. Westermann, 2004. Projektmanagement mit System 	wledge (F	РМВОК)
	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
Skills acquisition	 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 implet this knowledge in line with the situation Name project management methods and apply the structures and processes of a d project independently using supporting project management tools. Communicate in a situation-appropriate and personal manner 		
Course contents	 <u>Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6</u> Fundamentals of project management and application of supporting to o Project planning (project organization, resource planning with time cost, finance and budget planning) o Project management (time management, cost control and accounting quality management for projects) 67% of the module consists of independent implementation of a projective in small groups. The students are responsible for planning, course leader is focused on coaching the students. 	planning a ng, team l ect based pordinatio	eadership, on a given n, budget-
Teaching and learning methods	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6 Blended learning and problem-based & project-based learning		
Evaluation Methods Criteria	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6 Project and portfolio		



Module number:		Scope:	•
SER	Facility Services		ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Fundamentals of Facility Management (GFM), Fundamentate Industry (GIM), Selected Topics Business Administration (ECO.2)	ntals of th	ne Real Es-
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5		
Literature recommendation	 Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Eben agements. Berlin: Springer Vieweg. Kaiser, C., J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility edition. Wiesbaden: Springer Vieweg. Brugger-Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Intersafely and implement it meaningfully. 2nd edition. Wiesbaden: Springe Geilhausen, M., Schulze, O., Engelmann, D. and J. Bränzel, 2015. Energir Fachkräfte, Beauftragte und Manager. Wiesbaden: Springer Vieweg. Schröder, W, 2010. Ganzheitliches Instandhaltungsmanagement: Auf und Bewertung. Wiesbaden: Gabler. 	/ Manage erpret the r Gabler F ergiemana J.	ment.1st e standard Fachmedien agement:
Skills acquisition	Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: Identify Facility Services and their contents Identify quality levels and different requirements for different property Present differences between result-oriented and performance-oriented and services Create and review Service Level Agreements for Facility Services Identify requirements and tasks of quality management systems for the services Define maintenance strategies and select them according to the require Present and analyze relocation processes Name and analyze various office concepts and land uses and present law requirements for workplace design Create occupancy plans in dependencies of area concepts Present the contents and processes of energy audits and the energy remutement	d bills of o ne various rements ergonomi nanagem	s facility ic and labor
	Describe the fundamentals of building cleaning and to calculate servic Describe the process of a Computer Aided Facility Management (CAFN Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5		entation
Course contents	 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 at Maintenance management and maintenance strategies Relocation management and space management with a focus on official place concepts, space planning, occupancy analyses, ergonomics, accemanagement Basic concepts and calculations in cleaning management 	ce space a	and work-
Teaching and learning methods	Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 Blended Learning		
Evaluation Methods Criteria	Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5		
	Written exam		



Module number:	Technical Building Englishing I	Scope:	
TEC.3	Technical Building Facilities I	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Civil Engineering I (TEC.1), Civil Engineering II (TEC.2)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester /	ECTS: 6	
Literature recommendation	 Recknagel, H., et al., 2018. Taschenbuch für Heizung und Klimatechn edition. Munich: Oldenbourg Burkhardt, W. and R. Kraus, 2011. Projektierung von Warmwasserhei Munich: Oldenbourg Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung, stechnik. 1st edition. Munich: Edition Detail Hausladen, G., et al., 2004. ClimaDesign - Lösungen für Gebäude die mehr können. Munich: Callwey Verlag Daniels, K., 2003. Advanced Building Systems. Munich, Zürich: Birkhä Büttner, W. et al., 2011. Grundlagen der Elektrotechnik, 1st Munich: Gumiller, H et al., 2018. Fachkunde Elektrotechnik. Haan-Gruiten: Vertel 	zungen. 8 Innenau mit wenig user Oldenbou	8th edition. sbau, Hau- ger Technik rg
Skills acquisition	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / In respect of the heating, cooling, ventilation and electrical engineering able to: • Describe technical building requirements • Analyze and calculate technical solutions in the construction sector an preliminary planning phase. • Have professional communication with TGA planners	trades, st	
Course contents	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / • Meteorological fundamentals, comfort • Heating and cooling loads • Heating systems: Description and characteristics of the most important heat exchangers, boilers, burners, heat pumps, solar systems, automat • Ventilation technology: Description and characteristics of the most im e.g. fans, air heaters and air coolers, air filters, air humidifiers and dehic covery, fire protection, automation equipment. • Refrigeration: Description and characteristics of the most important co frigerating machines, recooling plants, cooling ceilings, circulating air co • Electrical engineering: Description and characteristics of the most important co frigerating machines, recooling plants, cooling ceilings, circulating air co • Electrical engineering: Description and characteristics of the most important co The module contains 20% exercises. This form of teaching takes place	nt compor ion equipi portant co umidifiers omponent poling unit portant co	ment omponents, , heat re- ts, e.g. re- ts mponents,
Teaching and learning methods	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / Blended Learning	<u>ECTS: 6</u>	
Evaluation Methods Criteria	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester /	<u>ECTS: 6</u>	
	Term paper and written exam		



Module number:	Property Valuation		
VAL			ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		•
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Fundamentals of the Real Estate Industry (GIM), Real I Financing (FIN), Selected Topics Business Administration (ECO.2)	Estate Inv	vestment &
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
Literature recommendation	 Kranewitter, H., 2017. Liegenschaftsbewertung. 7th edition. Vienna: Manz. Seiser, F., F. Kainz, F., 2011. Der Wert von Immobilien. 1st edition. Graz: Seiser+Sei Immobilien Consulting. Bienert, S. and M. Funk, M., et al., 2014. Immobilienbewertung Österreich. Vienna: (Kleiber, W., 2016. Verkehrswertermittlung von Grundstücken. 8th edition. Cologne: I desanzeiger Verlag. 		
	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
Skills acquisition	The students are able to: • Recognize correlations in the valuation procedures and the different ty • Understand the systematics of real estate valuation • Describe and apply national assessment procedures	/pes of pr	operty
	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
Course contents	 Fundamentals of property valuation Procedure and influencing factors of standardized valuation methods method, material value method, capitalized earnings value method, DC value method) Introduction to valuation of rights and encumbrances 		
Tooching and loorning methods	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
Teaching and learning methods	Blended Learning		
Evaluation Methods Criteria	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
	Written exam		



Module number:	Real Estate Management		
BEW			ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	5th semester		
Level	5th semester: Introduction		
Previous knowledge	5th semester: Fundamentals of the Real Estate Industry (GIM), Fund Management (GFM), Real Estate Development (DEV.1), Facility Services		of Facility
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS	5 <u>: 4</u>	
Literature recommendation	 Gondring,H. and T. Wagner (Eds.), 2010. Real Estate Asset Managem Praxis, Aus- und Weiterbildung. 1st edition. Munich: Vahlen. Malloth, T. (Ed.), 2013. Immobilienmanagement Österreich, ÖVI Wier Bammer, O., K. Fuhrmann and R. Ledl (Eds.), 2011. Handbuch Immo tung. 1st edition. Vienna: Linde. Pfnür, A. (Ed.), 2011. Modernes Immobilienmanagement, 3rd edition. 	n. 5th edit bilienbew	ion. irtschaf-
Skills acquisition	 <u>Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS</u> The students are able to: Describe and apply the fundamentals of building management Name and apply corporate and public real estate management and reagement activities Carry out property management activities, identify problem areas and Collect, analyze and evaluate key management indicators 	al estate a	
Course contents	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS • Fundamentals of building management • Management and administration of WGG properties, WE properties, a and commercial properties • Real estate asset management • Corporate real estate management • Public real estate management • Key management figures		buildings
Teaching and learning methods	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS Blended Learning	: 4	
Evaluation Methods Criteria	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS Written exam	: 4	



Module number:	International Facility Management & Real Estate Development	Scope:	
DEV.2	- Project & International Week		ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	5th semester		
Level	5th semester: Consolidation		
Previous knowledge	5th 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 &	k Internat	ional Week
	The literature is based on the project topics dealt with.		
	International Facility Management & Real Estate Development - Project &	Internati	onal Week
Skills acquisition	The students are able to: • Create and present ideas and concepts for projects in facility management tate development with real or realistic tasks and problems. • Work in interdisciplinary, international teams • Reflect internationally on different approaches and possible solutions a knowledge and skills from them		
Course contents	International Facility Management & Real Estate Development - Project & 2x blocked compact weeks in small groups with international students: • Introduction, consolidation, background and examples in the complex ject 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 & Problem & project-based learning, excursion, conference participation	Internati	onal Week
	International Facility Management & Real Estate Development - Project &	Internati	onal Week
Evaluation Methods Criteria	2x independent projects from the respective compact weeks		



Module number:	Desired Desired II	Scope:		
PRX.2	Practical Project II		ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time			
Position in the curriculum	5th semester			
Level	5th semester: Consolidation			
Previous knowledge	5th semester: Practical project I (PRX.1) and all teaching content from the 4th semesters	ne 1st, 2n	d, 3rd and	
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
Literature recommendation				
	Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
Skills acquisition	 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 			
	Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
Course contents	 Examples and approaches from practice and research will be presented perts as well as excursions to companies and research institutions. 80% of the module consists of independent implementation of a projective in small groups. The students are responsible for planning, coing, control, communication and reporting as well as finding solutions. 	ect based ordinatior	on a given n, budget-	
Tooching and loarning methods	Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
Teaching and learning methods	Presentation and problem-based & project-based learning			
Evaluation Methods Criteria	Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
	Project			



Module number:		Scope:	·		
SPR.3	Foreign Language III	4	ECTS		
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time	•	•		
Position in the curriculum	5th semester				
Level	5th semester: Consolidation				
Previous knowledge	5th semester: Foreign Language II				
Blocked	no				
Participant group	A-levels and/or corresponding previous training, beginners				
Literature recommendation					
Skills acquisition	Bachelor Degree Course - Facility & Real Estate Management Full-time 5th semester 5th semester: Consolidation 5th semester: Foreign Language II no				
Course contents					



	Understand and use familiar everyday expressions and very simple sentences aimed at sat- isfying specific needs. Introduce himself/herself and others and ask other people questions about him/herself - e.g. where he/she lives, people he/she knows or things he/she has - and answer questions of this kind. Communicate in a simple way if the interlocutors speak slowly and clearly and are willing to help. A2 - Basic knowledge Understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. personal and family information, shopping, work, local area). Communicate in simple, routine situations involving a simple and direct exchange of information on famil- iar and common matters. Describe with simple language his/her own background and edu- cation, immediate environment and things related to immediate needs. B1 - Advanced language use Use clear standard language and communicate on familiar matters from work, school, lei- sure, etc. Apply relevant conversation skills for travel in the area in which the language is
Course contents	 spoken. Express himself/herself simply and coherently on familiar topics and personal areas of interest. Report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views. B2 - Independent use of language
	Express the main contents of complex texts on concrete and abstract topics; participate in technical discussions in his/her own special field. Communicate so spontaneously and fluently that a normal conversation with native speakers is possible without much effort on both sides. Express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disadvantages of different options.
	C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meanings. Ex- press himself/herself fluently and spontaneously without having to search for words more often. Use the language effectively and flexibly in social and professional life or in education and studies. Express himself/herself clearly, in a structured and detailed manner on com- plex matters, using various means of text linking as appropriate.
	C2 - Approximate mother-tongue knowledge Effortless communication in all language situations. Summarize information from various written and oral sources, presenting reasons and explanations in a coherent presentation. Express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.
	Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4
Teaching and learning methods	Course book - by arrangement; authentic materials, e.g. from English language journals (in- cluding specialist journals), newspapers and online media
	Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4
Evaluation Methods Criteria	The performance and competence of the students in reading comprehension, listening com- prehension, written expression, oral expression and the quality of their cooperation (also online) are taken into account for the assessment.



Module number:		Scope:	·
TEC.4	Technical Building Facilities II	5	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time	•	
Position in the curriculum	5th semester		
Level	5th semester: Introduction and consolidation		
Previous knowledge	5th semester: Technical Building Facilities I (TEC.3)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester	/ ECTS: 5	
Literature recommendation	 Feurich, H. and L. Kühl, 2011. Sanitärtechnik Volumes 1 + 2. 10th ex seldorf: Krammer Verlag Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung stechnik. 1st edition. Munich: Edition Detail Unger, D., 2018. Aufzüge und Fahrtreppen: Ein Anwenderhandbuch (tion. Berlin: Springer Vierweg 	, Innenau	sbau, Hau-
	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester /	ECTS: 5	
Skills acquisition	 The students are able to work with sanitary engineering, elevators, esca forms, automatic doors, garage technology, fire alarm systems and safe Describe technical building requirements Analyze and calculate technical solutions in the construction sector an preliminary planning phase. Have professional communication with TGA planners 	ety lighting	g:
	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester	/ ECTS: 5	
Course contents	 Sanitary Technology: Hot water preparation, water supply, sewage di Elevators, escalators, lifting platforms, automatic doors, garage techni systems, safety lighting 		
Teaching and learning methods	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester /	ECTS: 5	
	Blended Learning		
Evaluation Methods Criteria	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester /	ECTS: 5	
	Term paper and written exam		



Module number:	.	Scope:	÷
PRX.3	Internship	20	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	6th semester		
Level	6th semester: Consolidation		
Previous knowledge	6th semester: all contents of modules with cross-links to the areas of professional internship from semesters 1 to 5.	responsib	ility of the
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 20		
Literature recommendation	• Brenner, D., 2007. Schön, dass Sie da sind: Karrierestart nach dem St Verlag	udium. Nü	rnberg: BW
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 20		
Skills acquisition	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 project lutions as well as justify them with comprehensible arguments and press and goal-oriented way • Successfully use communication at all levels (superiors, colleagues, er partners) to solve problems • Independently develop expertise to solve specific problems	ent results	s in a clear
Course contents	 Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 20 Full-time students must complete an internship of 19 ECTS = 475 hour credited to students working in a specific subject. The following contering the internship: Supplementing and deepening the knowledge acquired during the cothrough practical activities and questions of commercial law at an exterinternship ensures that the students are able to find their way around professional life after their studies and gain confidence in the implement quired knowledge through the experience they have already gained. In addition to the internship, the following teaching and learning contermodule: Reflection on one's own strengths Possibilities of self-marketing Implementation strategies for a personal work-life balance 	its will be t urse of stu rnal compa when they ntation of t	taught dur- Idy any. • The start their their ac-
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 20		
Teaching and learning methods	Blended learning and internship		
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 20		
Evaluation Methods Criteria	Portfolio		



Module number:		Scope:	
WIS.3	Bachelor Thesis Seminar	10	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management Full-time		
Position in the curriculum	6th semester		
Level	6th semester: Bachelor Thesis Seminar		
Previous knowledge	6th semester: Scientific & empirical methods (WIS.1), Selected topics at methods (WIS.2) and contents from the modules with links to the to thesis of semesters 1 to 5.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation			
	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECT	5: <u>10</u>	
Skills acquisition	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 nec- compare different views • Independently collect, interpret and critically reflect on data with the h academic methodology, thereby developing and further developing argu- solutions • Present results in a comprehensible manner and according to academic form of a Bachelor thesis • Organize oneself • Independently prepare and learn knowledge and skills from cross-com- course contents for the final Bachelor examination in a systematic manner	nelp of a so ments and c standard nections of	elf-chosen d problem ds in the
Course contents	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECT • Deepening the knowledge of academic work in relation to the indeper • Visualization of academic results such as posters, video, infographics, • Regular meetings to discuss the current status and progress of the Ba accompanying academic supervision • Information on the Commission Bachelor examination	ndent Bach etc.	
Teaching and learning methods	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECT: Blended learning and supervision of the Bachelor thesis	<u>5: 10</u>	
Evaluation Methods Criteria	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECT Bachelor thesis and visualization of the contents of the academic work	<u>5: 10</u>	



2.3.2 Module descriptions Part-time

Module number:	Freedowerships of Freedline Management	Scope:	
GFM	Fundamentals of Facility Management	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem	ester / EC	TS: 7
Literature recommendation	 Krimmling, J., 2013. Facility Management. Strukturen und methodisch updated edition. Stuttgart: Fraunhofer IRB Verlag. Gondring, H. and T. Wagner, 2018. Facility Management: Handbuch fi xis. 3rd completely revised edition. Munich: Vahlen Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene ments. Berlin: Springer Vieweg. 	ür Studium	und Pra-
	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem	ester / ECI	rs: 7
Skills acquisition	 The students are able to: To present the development and history of facility management in an i and to describe different international views of facility management. To demonstrate the benefits of facility management and to demonstrat differences to disciplines such as Corporate Real Estate Management (Climanagement and facility management. To describe the management approach of facility management, to de tomer satisfaction and to name various survey methods. To define sustainability and describe sustainability aspects influenced the ment To identify essential standards in facility management and to explain t tion To explain definitions of quality and to present requirements and tasks ment systems. To describe a real estate benchmarking process and identify possible sustainability and solve and to an antice sustainability and test and to explain t to a systems. 	te similarit REM), real fine user a by facility r heir areas s of quality	ies and estate nd cus- nanage- of applica- manage-
Course contents	 Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem History of Facility Management in different countries Definitions and meanings of Facility Management in an international cilarities and differences to other disciplines Models, processes and tasks in facility management Terms like service level agreement, key performance indicator, facility ment, service Normative framework in facility management Definitions and measurement of customer and user satisfaction Definition of quality and structure of a quality management system The process of real estate benchmarking Definition of sustainability and presentation of sustainability in facility 	ontext as w	well as sim-
Teaching and learning methods	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem Blended Learning	ester / ECT	<u>rs: 7</u>
Evaluation Methods Criteria	Fundamentals of Facility Management /ILV / Course no.: GFM / 1st sem	ester / ECI	IS: 7



Module number:		Scope:	
GIM	Fundamentals of the Real Estate Industry	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st se	emester /	ECTS: 7
Literature recommendation	 Malloth, T., et at., 2013. Immobilienmanagement Österreich. 5th editic Wendlinger, P., 2018. Immobilienkennzahlen. 2nd edition. Vienna: Linc Brauer, K., et al., 2019. Grundlagen der Immobilienwirtschaft. 10th edi Gabler Verlag. 	le.	
Skills acquisition	 Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st see 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 concept subsequent in-depth courses and argue with real estate economics terminal 	ots and te	
Course contents	 Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st set 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 a Fundamentals of aspects specific to space and building regulations 		
Teaching and learning methods	Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st se	mester /	ECTS: 7
	Blended Learning		
Evaluation Mothods Criteria	Fundamentals of the Real Estate Industry /ILV / Course no.: GIM / 1st se	mester /	ECTS: 7
Evaluation Methods Criteria	Written exam		



Module number:	Franking Language F	Scope:	
SPR.1	Foreign Language I	3	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	1st semester		
Level	1st semester: Introduction or consolidation		
Previous knowledge	1st semester: English Module with target B2/C1: Level B1 (GER) or English advanced course r	equired	
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3		
Literature recommendation	Course book - by arrangement; authentic materials, e.g. from English l cluding specialist journals), newspapers and online media	anguage jo	ournals (in-
	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3		
	The modules are designed according to the Common European Framework Languages (CEFR). In the modules, students will acquire the language s skills necessary for a business-oriented professional or academic activity	skills and d	rence for levelop the
	The following competences are taught according to CEFR, i.e. after comule, successful graduates will have mastered the following activities:	pletion of t	he mod-
Skills acquisition	B2 - Independent use of language Can understand the main contents of complex texts on concrete and abs derstands technical discussions in his/her own special field. Can commun ously and fluently that a normal conversation with native speakers is pos- effort on both sides. Can express himself/herself clearly and in detail on ics, explain a point of view on a topical issue and indicate the advantage of different options.	nicate so si ssible witho a wide ran	oontane- out much ige of top-
	C1 - Expert language skills Can understand a wide range of demanding, longer texts and also grasp Can express him/herself fluently and spontaneously without having to se often. Can use the language effectively and flexibly in social and profess tion and studies. Can express himself/herself clearly, in a structured and complex matters, using various means of text linking as appropriate.	earch for w ional life o	ords more r in educa-
	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3		
Course contents	B2 - Independent use of language Express the main contents of complex texts on concrete and abstract to technical discussions in his/her own special field. Communicate so spont ently that a normal conversation with native speakers is possible withou sides. Express himself/herself clearly and in detail on a wide range of to of view on a topical issue and indicate the advantages and disadvantage tions.	taneously a t much eff pics, expla	and flu- ort on both in a point
	C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meaning press himself/herself fluently and spontaneously without having to search for words ten. Use the language effectively and flexibly in social and professional life or in edu and studies. Express himself/herself clearly, in a structured and detailed manner or matters, using various means of text linking as appropriate.		ls more of- lucation
Teaching and learning methods	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3 Blended Learning		
	Foreign Language I /ILV / Course no.: SPR.1 / 1st semester / ECTS: 3		
Evaluation Methods Criteria	The performance and competence of the students in reading comprehe prehension, written expression, oral expression and the quality of th online) are taken into account for the assessment.		



Module number:		Scope:	
TEC.1	Civil Engineering I	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	1st semester		
Level	1st semester: Introduction		
Previous knowledge	1st semester: no		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
Literature recommendation	 Neroth, G. and D. Vollenschaar, 2011. Wendehorst Baustoffkunde: Gru Oberflächenschutz. Wiesbaden: Vieweg+Teubner Verlag. Backe, H., 2008. Baustoffkunde: Für Ausbildung und Praxis, 11th editio Verlag. Herrmann, H. and W. Krings, 2017. Kleine Baustatik: Grundlagen der S nung von Bauteilen, 18th edition. Wiesbaden: Springer Vieweg. Lutz, P et. al., 2013. Lehrbuch der Bauphysik: Schall, Wärme, Feuchte, Wiesbaden: Springer Vieweg. Pech, A. and C. Pöhn, 2018. Bauphysik Wärme – Feuchte – Schall – Br ser. 	on. Cologr Statik und , Licht, Bra	ne: Werner Berech- and, Klima.
Skills acquisition	 <u>Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6</u> The students are able to: Describe the most important construction and materials as well as constant compare their differences Classify construction materials and materials according to their physica Identify and classify causes and avoidance of structural defects and da Understand the basic principles of structural mechanics Understand basic building physics (heat, sound and humidity) 	l propertie	es
	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
Course contents	 Basic knowledge and overview of common building materials for construction and finish Assessment and selection of building materials according to technical and economic chateristics. Basic knowledge of structural mechanics Building physics (heat, sound and humidity) Construction defects and structural damage with regard to cause and avoidance 		mic charac
	The module contains 25% exercises. This form of teaching takes place i	n small gr	oups.
Teaching and learning methods	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6 Blended Learning		
	Civil Engineering I /ILV / Course no.: TEC.1 / 1st semester / ECTS: 6		
Evaluation Methods Criteria	Written exam		



Degree program Bachelor Degree Course - Facility & Real Estate Management Image: Course in the curriculum Position in the curriculum Ist semester: Introduction Previous knowledge Ist semester: no Blocked no Participant group A-levels and/or corresponding previous training, beginners Academic & Empirical Methods /ILV / Course no.: WIS.1 / Ist semester / ECTS: Z • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. Munich: Franz Vallen • Fahrmeir, L., R. Kinstler, T. Blgoot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., R. Kinstler, T. Blgoot, J. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., Kinstler, T. Blgoot, J. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Entrest, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gallieo Computing • Wetz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen In Python. Wiesbaden: Springer Skills acquisition • Research, evaluate and quote specialist Itterature • Present and apply academic methods of diterature analysis • Understand and apply concepts and methods of discriptive and explorative statistics • Independentity analyze and structure data sets as well as present and critically evaluate	Module number:	And density O. Francisco I. Marke da	Scope:	•
Position in the curriculum 1st semester Level 1st semester: Introduction Previous knowledge 1st semester: no Blocked no Participant group A-levels and/or corresponding previous training, beginners Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterabel. Munich: Franz Vahlen • Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Hetand, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Weitz, Z. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 The students are able to: • Describe and apply academic methods of diterature analysis • Understand and apply academic methods of literature analysis • Understand and apply academic work • Research, evaluate and quote specialist literature • Ercset na dapply the fundamentals of academic work • Research and apply academic methods of literature analysis • Understand and apply academic methods of literature analysis • Understand and apply academic methods of literature analysis <t< th=""><th>WIS.1</th><th>Academic & Empirical Methods</th><th>7</th><th>ECTS</th></t<>	WIS.1	Academic & Empirical Methods	7	ECTS
Level 1st semester: Introduction Previous knowledge 1st semester: no Blocked no Participant group A-levels and/or corresponding previous training, beginners Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: Z • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. Munich: Franz Vahlen • Fahrmeir, L., K. Künster, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. Th edition. Berlin: Springer • Fahrmeir, L., Knöl, T. K. Sung, S. 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer • Hettand, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gallieo Computing • Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialist literature • Present and apply academic methods of literature analysis • Undeerstand and apply cacheritic methods of descriptive and explorative statistics • Independently analyze and structure data sets as well as present and critically evaluate in- formation Course contents • Principles of academic and academic work • Ocacidan and agalysis and presentation of data • Ocrrelation	Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Previous knowledge 1st semester: no Blocked no Participant group Al-levels and/or corresponding previous training, beginners Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. Munich: Franz Vahlen • Fahrmeir, L., R. Künstler, I., Pigoot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana inspression: Modelle, Methoden und Anwendum- gen. 2nd edition. Berlin: Springer • Fahrmeir, L., R. Künstler, D. Pigoot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana inspression: Modelle, Methoden und Anwendum- gen. 2nd edition. Berlin: Springer • Fahrmeir, L., R. Künstler, Z. 192, Oylon 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gallieo Computing • Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 The students are able to: • Describe and apply cacher methods of dacademic work Research, evaluate and quote specialist literature • Present and apply academic methods of dacademic work Skills acquisition Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 The students are able to: • Describe and apply cacher and mutch sof dacademic work • Research, evaluate and quote specialist literature • Present and apply acad	Position in the curriculum	1st semester		
Biocked no Participant group A-levels and/or corresponding previous training, beginners A-devels and/or corresponding previous training, beginners A-devels and/or corresponding previous training, beginners A-devels and/or corresponding previous training, beginners • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit, Munich: Franz Vahlen Iterature recommendation • Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer Iterature recommendation • Fahrmeir, L., R. Künstler, Springer J. S. 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer Itetaand, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Erresti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Galileo Computing • Weitz, Z. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialist literature • Present and apply academic methods of literature analysis • Independently analyze and structure data sets as well as present and critically evaluate in- formation Course contents • Principles of academia and academic work o Science and academic language o Literature	Level	1st semester: Introduction		
Participant group A-levels and/or corresponding previous training, beginners Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: Z • Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. Munich: Franz Vallen • Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana Vyse. 7th edition. Berlin: Springer • Fahrmeir, L., Kneb, T., & Lang, S., 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer • Hettand, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Erresti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gallieo Computing • Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 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 • Independently analyze and structure data sets as well as present and critically evaluate in- formation Course contents Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Principles of academic and dacdemic work • Research and apply academic methods of descriptive and explorative statistics • Independently analyze and structure data sets as well as present and critically evaluate in- formation Course	Previous knowledge	1st semester: no		
Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit, Munich: Franz Vahlen • Fahrmeir, L., R. Klinster, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. Th edition. Berlin: Springer • Fahrmeir, L., Knelb, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer • Fahrmeir, L., Knelb, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer • Hetland, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gailieo Computing • Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 The students are able to: • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialist literature • Present and appa acdemic methods of literature • Present and appa academic methods of literature • Present and appa academic methods of literature • Present and appi academic methods of literature • Present and appi academic Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Principles of academia and academic work o Statistical characteristics and variables o Univariate and multivariate description and exploration of data o Correlation and regression analyses • Basic programming knowledge for data preparation o Analysis and presentation of informa	Blocked	no		
• Heisen, M. R. and M. Theisen 2017. Wissenschaftliches Arbeiten: erfolgreich bei Bachelor- und Masterarbeit. Munich: Franz Vahlen • Fahrmeir, L., R. Künster, I. Pigeco, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., R. Künster, I. N. Bedo, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., K. Kineib, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendun- gen. 2nd edition. Berlin: Springer • Hetland, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Galileo Computing • Wietz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition • Describe and apply the fundamentals of academic work • Research, evaluate and quote specialisi literature • Present and apply academic methods of literature analysis • Understand and apply concepts and methods of descriptive and explorative statistics • Independently analyze and structure data sets as well as present and citically evaluate information Course contents • Cademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Principles of acaademic and academic work • Science and academic language • Literature research • Citatio and source work	Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation und Masterarbeit: Munich: Franz Vahlen • Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., K. Künstler, S. Pigeot, I. and G. Tutz, 2012. Statistics: Der Weg zur Datenana lyse. 7th edition. Berlin: Springer • Fahrmeir, L., Kneib, T. & Lang, S., 2009. Regression: Modelle, Methoden und Anwendungen. 2nd edition. Berlin: Springer • Hetland, M., 2005. Beginning Python From Novice to Professional. New York: Springer-Ver lag • Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. 3rd edition. Bonn: Gailleo Computing • Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit vielen Grafiken und Algorithmen in Python. Wiesbaden: Springer Skills acquisition • Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 The students are able to: • Describe and apply concepts and methods of descriptive and explorative statistics • Understand and apply concepts and methods of descriptive and explorative statistics • Independenty analyze and structure data sets as well as present and critically evaluate information Course contents • Principles of academia and academic work • Science and academic language • Universtand and apply concepts and methods of descriptive and explorative statistics • Independenty analyze and structure data sets as well as present and critically evaluate information Course contents • Academ		Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester	/ ECTS: 7	
Skills acquisitionThe 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 • Independently analyze and structure data sets as well as present and critically evaluate in- formationAcademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 • Principles of academia and academic work o Science and academic language o Literature research o Citation and source work o Avoidance of plagiarism • Principles of data analysis o Statistical characteristics and variables o Univariate and multivariate description and exploration of data o Correlation and regression analyses o Basic programming knowledge for data preparation o Analysis and presentation of information from data sets The module contains 25% exercises. This form of teaching takes place in small groups.Teaching and learning methodsAcademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 Blended LearningEvaluation Methods CriteriaAcademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 Blended Learning	Literature recommendation	 und Masterarbeit. Munich: Franz Vahlen Fahrmeir, L., R. Künstler, I. Pigeot, I. and G. Tutz, 2012. Statistics: De lyse. 7th edition. Berlin: Springer Fahrmeir, L., Kneib, T. & Lang, S., 2009. Regression: Modelle, Method gen. 2nd edition. Berlin: Springer Hetland, M., 2005. Beginning Python From Novice to Professional. Nev lag Ernesti, J. and P. Kaiser, 2012. Python 3 - Das umfassende Handbuch. Galileo Computing Weitz, E. 2018. Konkrete Mathematik (nicht nur) für Informatiker. Mit 	r Weg zur en und An v York: Sp 3rd editio	Datenana- wendun- ringer-Ver- n. Bonn:
Principles of academia and academic work o Science and academic language o Literature research o Citation and source work o Avoidance of plagiarism • Principles of data analysis o Statistical characteristics and variables o Univariate and multivariate description and exploration of data o Correlation and regression analyses o Basic programming knowledge for data preparation o Analysis and presentation of information from data sets The module contains 25% exercises. This form of teaching takes place in small groups.Teaching and learning methodsAcademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7 Blended LearningEvaluation Methods CriteriaAcademic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7	Skills acquisition	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 explore • Independently analyze and structure data sets as well as present and constructions	ative statis	
Teaching and learning methods Blended Learning Evaluation Methods Criteria Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / ECTS: 7	Course contents	 Principles of academia and academic work Science and academic language Literature research Citation and source work Avoidance of plagiarism Principles of data analysis Statistical characteristics and variables Univariate and multivariate description and exploration of data Correlation and regression analyses Basic programming knowledge for data preparation Analysis and presentation of information from data sets 		oups.
Evaluation Methods Criteria	Teaching and learning methods	Blended Learning		
	Evaluation Methods Criteria	Academic & Empirical Methods /ILV / Course no.: WIS.1 / 1st semester / Term paper and written exam	<u>ECIS: 7</u>	



Module number:		Scope:	
ECO.1	Fundamentals of Business Administration & Economics	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		•
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	 Fundamentals of Business Administration & Economics (E) /ILV / Cousemester Vahs, D. and J. Schäfer-Kunz, 2015. Einführung in die Betriebswirtschaftslehre: Um aus managementorientierter Sicht. 8th edition. Wiesbaden: Springer Gaber. Thommen, JP. et al., 2017. Allgemeine Betriebswirtschaftslehre: Um aus managementorientierter Sicht. 8th edition. Wiesbaden: Springer Gabler. Hutzschenreuter, T., 2015. Allgemeine Betriebswirtschaftslehre. 6th e Springer Gabler. Wöhe, G., U. Döring and G. Brösel, 2016. Einführung in die Allgemein lehre, 26th edition Munich: Vahlen. Weber, W., R. Kabst and M. Baum, 2018: Einführung in die Betriebswiedition Wiesbaden: Springer Gabler. Pindyck, R. S. and D. L. Rubinfeld, 2018. Mikroökonomie. Pearson De Varian, H. R., 2014. Grundzüge der Mikroökonomik. Berlin: Walter de KG.Deutschland GmbH. Münter, M.T., 2018. Mikroökonomie, Wettbewerb und strategisches V UTB GmbH Natrop, J., 2012. Grundzüge der angewandten Mikroökonomie. Berlin GmbH & Co KG.Deutschland GmbH. Kahneman, D., 2012. Schnelles Denken, langsames Denken. Munich: Rifkin, J., 2014. Die Null-Grenzkosten-Gesellschaft: Das Internet der E Gemeingut und der Rückzug des Kapitalismus. Frankfurt am Main: Campus Verlag. Buchholz, L. and R. Gerhards, 2016. Internes Rechnungswesen, Koster rechnung, Betriebsstatistik und Planungsrechnung. Wiesbaden: Springe Deimel, K. et al., 2017. Kostenrechnung, Das Lehrbuch für Bachelor, I Hallbergmoos: Pearson Geirhofer, S. and C. Hebrank, 2016. Grundlagen Buchhaltung und Bilaeiditon. Vienna: Linde Verlag. Coenenberg, A.G. et. al., 2018. Einführung in das Rechnungswesens; Gürtung und Bilanzierung, 7th edition Stuttgart: Schäffer Poeschel Wedell, H. and A.A. Dilling, 2018. Grundlagen des Rechnungswesens, KWB Studium Schmidt, M., B. Auer and P. Schmidt, 2012. Buchführung und Bilanzie dungsorientierte	aftslehre. 1 fassende E abler. ftslehre. 1 dition. Wie e Betriebsw rirtschaftsle utschland 0 Gruyter G erhalten. S : Walter de Siedler Ve Dinge, kolla pus Verlag Gesellschaft en- und Lei er Gabler Master und anzmanage Grundlager 16th editio hluss, 4th rung: Eine	7th edition. Einführung 1th edition. esbaden: wirtschafts- ehre, 10th GmbH mbH & Co Stuttgart: e Gruyter rlag. aboratives g. t rettet. istungs- d Praktiker. ement, 4th n der Buch- on Herne: edition. e anwen-
Skills acquisition	 semester / 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 a tutive factors of a company. Recognize relationships in the sense of the various relationships betwee tions Clearly differentiate central business terms from each other Explain the most important constitutional and functional corporate dece Handle fundamental management problems from an economic point of 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 the formation of market forms 	een busine: cisions. f view	ss func-





Explain basic concepts and subareas of accounting Linderstand the technique and internal structure of double entry backkeeping and
• 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 ac- counts
	 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
Skills acquisition	 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)
	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd semester /
Course contents	 Overview and context analysis of the most important subareas in business administration Subject and fundamentals of business administration: o Operational functional areas Business decision theory Fundamentals of management and ethics Fundamentals of Human Resources and organization 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 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 External accounting: o Structure of the accounting system o Fundamentals of operational accounting: Tasks, sub-areas and basic concepts o Commercial accounting system: Prosting 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
	 Fundamentals of cost and revenue accounting: Tasks, components and subareas Structure of cost accounting (cost elements, cost centers, cost objects) Contribution margin accounting
	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd
Teaching and learning methods	semester /
	Blended Learning
Evaluation Methods Criteria	Fundamentals of Business Administration & Economics (E) /ILV / Course no.: ECO.1 / 2nd semester /
	Written exam



Module number:		Scope:	
FIN	Real Estate Financing & Investment	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: Fundamentals of the Real Estate Industry (GIM), Academ ods (WIS.1)	ic & Empi	rical Meth-
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Real Estate Financing & Investment /ILV / Course no.: FIN / 2nd semest	er / ECTS	: 6
Literature recommendation	 Geyer, A., M. Hanke, E. Littich, M. Nettekoven, 2015. Grundlagen der Fedition. Vienna: Linde Verlag Walch, P., K. Weichselbaum, 2018. Handbuch Immobilienfinanzierung. Linde Verlag. Teufelsdorfer, H. et al., 2015. Handbuch Immobilientransaktionen. 2nd Linde Verlag. 	2nd editio	on. Vienna:
	Real Estate Financing & Investment /ILV / Course no.: FIN / 2nd semester	er / ECTS:	6
Skills acquisition	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 • Understand and apply feasibility studies for real estate investments	market	
	Real Estate Financing & Investment /ILV / Course no.: FIN / 2nd semest	er / ECTS	: 6
Course contents	 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 Financing & Investment /ILV / Course no.: FIN / 2nd semester Blended Learning	er / ECTS:	6
Evaluation Methods Criteria	Real Estate Financing & Investment /ILV / Course no.: FIN / 2nd semester Written exam	er / ECTS:	6



Module number:		Scope:	
REC	Law for Facility & Real Estate Management	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction		
Previous knowledge	2nd semester: Fundamentals of the Real Estate Industry (GIM), Fund Management (GFM)	lamentals	of Facility
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	semeste	r /
Literature recommendation	 Meissel, F., et al., 2016. Grundbegriffe der Rechtswissenschaften, 3rd Manz. Artner, S., Kohlmaier, K., et al., 2017. Praxishandbuch Immobilienrech enna: Linde. Krumschnabel, M., 2015. Immobilienverträge. 1st edition. Kufstein: Eig. Najork, E., et al., 2009. Rechtshandbuch Facility Management. 1st edit Kaiser, C., Nusser, J. und f. Schrammel. 2018. Praxishandbuch Facility edition. Wiesbaden: Springer Vieweg. 	t. 2nd edi genverlag ion. Berlir	tion. Vi- n: Springer
Skills acquisition	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd The students are able to: • Identify and classify legal areas and topics • Understand real estate law areas and their fundamentals, and grasp th • Identify the specifics of the legal area of facility management		_
	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	semeste	r /
Course contents	 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, WEI Contract law (including FM contracts, contracts for work and services, pair contracts) Fundamentals of public procurement law 	G) maintena	nce and re-
Teaching and learning methods	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	semester	L
	Blended Learning		
Evoluation Matheda Critaria	Law for Facility & Real Estate Management /ILV / Course no.: REC / 2nd	semester	1
Evaluation Methods Criteria	Written exam		



Module number:	Family Lawrence T	Scope:	
SPR.2		5	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	2nd semester		
Level	2nd semester: Consolidation		
Previous knowledge	2nd semester: Foreign Language I		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5	5	
Literature recommendation	Course book - by arrangement; authentic materials, e.g. from English language journ cluding specialist journals), newspapers and online media		ournals (in-
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5	-	
	The modules are designed according to the Common European Framew Languages (CEFR). In the modules, students will acquire the language skills necessary for a business-oriented professional or academic activity	skills and o	
	The following competences are taught according to CEFR, i.e. after comule, successful graduates will have mastered the following activities:	pletion of	the mod-
	A1 - Beginner Can understand and use familiar everyday expressions and very simple satisfying specific needs. Can introduce him/herself and others and ask tions about him/herself - e.g. where he/she lives, people he/she knows - and can answer questions of this kind. Can communicate in a simple v tors speak slowly and clearly and are willing to help.	other peop or things h	ole ques- ne/she has
	A2 - Basic knowledge Can understand sentences and frequently used expressions related to a ate relevance (e.g. personal and family information, shopping, work, loc municate in simple, routine situations involving a simple and direct exch on familiar and common matters. Can describe with simple language his ground and education, immediate environment and things related to im	cal area). C nange of in s/her own	Can com- formation back-
Skills acquisition Skills acquisition B1 - Advanced language use Can understand the main points when clear standard language familiar matters from work, school, leisure, etc. Can cope with when travelling in the area where the language is spoken. Can and coherently on familiar topics and personal areas of interes and events, describe dreams, hopes and goals and give brief r plans and views.		uations enc himself/he port on exp	ountered rself simply periences
	B2 - Independent use of language Can understand the main contents of complex texts on concrete and ab derstands technical discussions in his/her own special field. Can commu ously and fluently that a normal conversation with native speakers is po effort on both sides. Can express himself/herself clearly and in detail or ics, explain a point of view on a topical issue and indicate the advantage of different options.	nicate so s ssible with a wide rai	pontane- out much nge of top-
	C1 - Expert language skills Can understand a wide range of demanding, longer texts and also grasp Can express him/herself fluently and spontaneously without having to s often. Can use the language effectively and flexibly in social and profess tion and studies. Can express himself/herself clearly, in a structured and complex matters, using various means of text linking as appropriate.	earch for v sional life c	vords more or in educa-
	C2 - Approximate mother-tongue knowledge Can easily understand practically anything he/she reads or hears. Can so mation from various written and oral sources, presenting reasons and e herent presentation. Can express himself/herself spontaneously, very flu and can also make clear finer nuances of meaning in more complex situ	xplanations uently and	s in a co-



	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
	A1 - Beginner Understand and use familiar everyday expressions and very simple sentences aimed at satis- fying specific needs. Introduce himself/herself and others and ask other people questions about him/herself - e.g. where he/she lives, people he/she knows or things he/she has - and answer questions of this kind. Communicate in a simple way if the interlocutors speak slowly and clearly and are willing to help.
	A2 - Basic knowledge Understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. personal and family information, shopping, work, local area). Communicate in simple, routine situations involving a simple and direct exchange of information on familiar and common matters. Describe with simple language his/her own background and educa- tion, immediate environment and things related to immediate needs.
Course contents	B1 - Advanced language use Use clear standard language and communicate on familiar matters from work, school, lei- sure, etc. Apply relevant conversation skills for travel in the area in which the language is spoken. Express himself/herself simply and coherently on familiar topics and personal areas of interest. Report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views.
	B2 - Independent use of language Express the main contents of complex texts on concrete and abstract topics; participate in technical discussions in his/her own special field. Communicate so spontaneously and flu- ently that a normal conversation with native speakers is possible without much effort on both sides. Express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disadvantages of different op- tions.
	C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meanings. Ex- press himself/herself fluently and spontaneously without having to search for words more of- ten. Use the language effectively and flexibly in social and professional life or in education and studies. Express himself/herself clearly, in a structured and detailed manner on complex matters, using various means of text linking as appropriate.
	C2 - Approximate mother-tongue knowledge Effortless communication in all language situations. Summarize information from various written and oral sources, presenting reasons and explanations in a coherent presentation. Express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.
Teaching and learning methods	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
	Blended Learning
	Foreign Language II /ILV / Course no.: SPR.2 / 2nd semester / ECTS: 5
Evaluation Methods Criteria	The performance and competence of the students in reading comprehension, listening com- prehension, written expression, oral expression and the quality of their cooperation (also online) are taken into account for the assessment.



Module number:		Scope:	·
TEC.2	Civil Engineering II	7	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	2nd semester		
Level	2nd semester: Introduction and consolidation		
Previous knowledge	2nd semester: Civil Engineering I (TEC.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	 <u>Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7</u> Hestermann, U. and L. Rongen, 2009. Frick/Knöll Baukonstruktionsleh Vieweg+Teubner Verlag. Kister, J. et al., 2012. Bauentwurfslehre. Wiesbaden: Springer Vieweg Neumann, D., Hestermann, U. and L. Rongen, 2008. Frick/Knöll Bauko Wiesbaden: Vieweg+Teubner Verlag. Riccabona, C., 2008. Baukonstruktionslehre 1: Rohbauarbeiten. Vienn Riccabona, C. and K. Mezera, 2011. Baukonstruktionslehre 2: Ausbaux Manz. Fröhler, R. and R. Mair, 2003. AutoCAD 2002 Grundlagen der 3D-Konsenna: Textbook publishing house Leipzig in the Carl Hanser Verlag Frey, H. et al., 2015. Bautechnik Technisches Zeichnen. Haan-Gruiten Lehrmittel 	I. onstruktion a: Manz. arbeiten. V struktion. I	nslehre 2nd 'ienna: Munich, Vi-
	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7		
Skills acquisition	The students are able to: • Inspect component superstructures and assess them from a construct • Describe structural designs and relevant connection details and create • Understand construction drawings and communicate their characterist • Create simple 2D & 3D plans using CAD programs	them inde	
	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7		
Course contents	 Primary, secondary and tertiary structures Solid, lightweight and system construction methods in shell and finish Communication of the constructive interrelations and detailed solution building construction (new construction and renovation) Requirements (rules and standards) and contents of construction draw ground plans, sections, views and details) Introduction to the functions of a CAD program and application 	ns usually f wings (site	ound in plan,
	The module contains 50% exercises. This form of teaching takes place	in small gr	oups.
Teaching and learning methods	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7		
5	Blended Learning		
Evaluation Methods Criteria	Civil Engineering II /ILV / Course no.: TEC. 2 / 2nd semester / ECTS: 7		
	Term paper and written exam		



Module number:	Colorida Tanica Rusinga Administration	Scope:		
ECO.2	Selected Topics Business Adminstration	8	ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management			
Position in the curriculum	3rd semester			
Level	3rd semester: Consolidation			
Previous knowledge	3rd semester: Introduction to Business Administration & Economics (EC	20.1)		
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
Literature recommendation	 <u>Selected Topics Business Administration (E) /ILV / Course no.: ECO.2 / 8</u> Kollmann, T., 2016. E-Entrepreneurship: Grundlagen der Unternehme gitalen Wirtschaft. Wiesbaden: Springer Gabler. Moring, A., L. Maiwald and T. Kewitz, 2018. Bits und Bricks: Digitalisie modellen in der Immobilienbranche. Wiesbaden: Springer Gabler. Osterwalder, A. and Y. Pigneur, 2011. Business Model Generation: Ein näre, Spielveränderer und Herausforderer. Frankfurt a.M.: Campus Ver Plümer, T. and M. Niemann, 2016. Existenzgründung Schritt für Schribaden: Springer Gabler. 	ensgründur erung von h Handbucl lag GmbH.	ig in der di- Geschäfts- n für Visio-	
Skills acquisition	Selected Topics Business Adminstration (E) /ILV / Course no.: ECO.2 / 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 r models • Market a business model			
Course contents	 <u>Selected Topics Business Adminstration (E) /ILV / Course no.: ECO.2 / 8</u> Fundamentals of a company with a focus on digital business models vindustry Components of a business plan and creation of one' s own business per Business model analysis Fundamentals of marketing business models 	within the r		
Teaching and learning methods	Selected Topics Business Adminstration (E) /ILV / Course no.: ECO.2 / 8 Blended Learning	3rd semes	ter / ECTS:	
Evaluation Methods Criteria	Selected Topics Business Adminstration (E) /ILV / Course no.: ECO.2 / 8 Project	3rd semes	ter / ECTS:	



Module number:	Folgsted Tanias Casial Competences & Drosontation	Scope:	
SOC	Selected Topics Social Competences & Presentation		ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	3rd semester		
Level	3rd semester: Introduction and consolidation		
Previous knowledge	3rd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Selected Topics Social Competences & Presentation /ILV / Course no.: S	SOC / 3rd	semester /
Literature recommendation	 Rosenberg, M., 2012. Gewaltfreie Kommunikation. Paderborn: Junferr Becker, H. and A. Hugo-Becker, 1992. Psychologisches Konfliktmanag Oboth, M., 2008. Mediation in Teams und Gruppen. Paderborn: Junfer 	ement. Mı	unich: Beck
	Selected Topics Social Competences & Presentation /ILV / Course no.: S	OC / 3rd s	semester /
Skills acquisition	The students are able to: • Present basic concepts of communicative processes and consciously us tionship aspects of human communication. • Understand motivation and assessment of people in a professional com • Reflect a meaningful design of work and leisure time (work-life balance • Facilitate communicative processes within the team and identify and at team communication and develop solution strategies. • Prepare and conduct presentations and use the techniques and media a targeted manner • Create simple 3D visualizations • Create short videos to visualize ideas and concepts with simple tools	text e) nalyze pro	blems in
Course contents	 Selected Topics Social Competences & Presentation /ILV / Course no.: S Basic components of communicative processes, message and meaning 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 and application of different presentation techniques and meaning Goals and target group as well as content and form of 3D visualizations Goals and target group as well as structure, content and form of selection and application of tools for the creation of 3D visualizations Objectives and target group as well as structure, content and form of Selection and application of simple techniques and tools for video creation 	g as well a esentation dia short vide	is content
Teaching and learning methods	Selected Topics Social Competences & Presentation /ILV / Course no.: S Blended Learning		
Evaluation Methods Criteria	Selected Topics Social Competences & Presentation /ILV / Course no.: S Portfolio	<u>OC / 3rd s</u>	<u>semester /</u>



Module number:	Sclashed Tania Formation		
VWL	Selected Topics Economics	10	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	3rd semester		
Level	3rd semester: Introduction and consolidation		
Previous knowledge	3rd semester: none		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation	 <u>Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / ECT</u> Krugman, P., R., Wells, 2017. Volkswirtschaftslehre. 2nd edition. Munic Pirounakis, N., 2013. Real Estate Economics: A Point-to-Point Handboo Maier, G., F., Tödtling, 2012. Regional- und Stadtökonomik 1: Standort struktur. 5th edition. Vienna: Springer Maier, G., F., Tödtling, 2012. Regionalentwicklung und Regionalpolitik. Springer Rottke, N., M., Voigtländer, 2017. Immobilienwirtschaftslehre – Ökonor bler Verlag <u>Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / ECTS</u> The students are able to: Describe and apply basic concepts and methods in economics Critically evaluate and guestion methods and concepts in economics 	h: Schäffe k. UK: Rc theorie ur 4th edition mie. Wiest	utledge. Id Raum- n. Vienna:
Course contents	 Recognize and understand economic interrelations in the context of the <u>Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / ECT</u> Economic theory Microeconomics Macroeconomics Econometrics Regional economy Real estate economics Economic policy Environmental economics 		e industry
Teaching and learning methods	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / ECTS Blended Learning	<u>5: 10</u>	
Evaluation Methods Criteria	Selected Topics Economics /ILV / Course no.: VWL / 3rd semester / ECTS Term paper and presentation	<u>5: 10</u>	



Module number:			
WIS.2	Selected Topics on Academic & Empirical Methods	5	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	3rd semester		
Level	3rd semester: Introduction and consolidation		
Previous knowledge	3rd semester: Academic and Empirical Methods (WIS.1)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Selected Topics on Academic & Empirical Methods /ILV / Course no.: W	IS.2 / 3.	
Literature recommendation	 Bortz, J. and N. Döring, 2006. Forschungsmethoden und Evaluation. Berlin: Springer Flick, U., E. Kardorff and I. Steinke, 2007. Qualitative Forschung. Rowohlts Enzyklopäd Lamnek, S., 2010. Qualitative Sozialforschung. Berlin: Beltz Przyborski, A. and M. Wohlrab-Sahr, 2010: Qualitative Sozialforschung. Munich: Older bourg 		klopädie
Skills acquisition	 <u>Selected Topics on Academic & Empirical Methods /ILV / Course no.: WI</u> The students are able to: Describe and apply relevant quantitative and qualitative academic met area Select and independently apply tools and methods to support data coll Illustrate and critically reflect on results in a comprehensible way 	hods in th	
Course contents	 <u>Selected Topics on Academic & Empirical Methods /ILV / Course no.: W</u> Qualitative and Quantitative Scientific Methods Questionnaire Interview Qualitative & quantitative content analysis Field & laboratory study (focus on experiment, A/B test & simulation Tools and Examples Data collection Data analysis Visualization of the results Description and critical reflection of results 		
Teaching and learning methods	Selected Topics on Academic & Empirical Methods /ILV / Course no.: WI Blended Learning	<u>S.2 / 3.</u>	
Evaluation Methods Criteria	Selected Topics on Academic & Empirical Methods /ILV / Course no.: WI Term paper	<u>S.2 / 3.</u>	



DEV.1 Degree program Position in the curriculum Level Previous knowledge Blocked Participant group Image: state sta	Real Estate Development Bachelor Degree Course - Facility & Real Estate Management 4th semester 4th semester: Introduction 4th semester: Fundamentals of the Real Estate Industry (GIM), Fundament agement (GFM), Real Estate Investment & Financing (FIN), Civil Engineer for Facility & Real Estate Management (REC), Selected Topics Social Contation (SOC) no	ring II (T	ECTS
Position in the curriculum Level Previous knowledge Blocked Participant group	4th semester 4th semester: Introduction 4th semester: Fundamentals of the Real Estate Industry (GIM), Fundament agement (GFM), Real Estate Investment & Financing (FIN), Civil Engineer for Facility & Real Estate Management (REC), Selected Topics Social Contation (SOC) no	ring II (T	icility Man-
Level 4 Previous knowledge 4 Blocked 9 Participant group 4 1	4th semester: Introduction 4th semester: Fundamentals of the Real Estate Industry (GIM), Fundamen agement (GFM), Real Estate Investment & Financing (FIN), Civil Enginee for Facility & Real Estate Management (REC), Selected Topics Social Com tation (SOC) no	ring II (T	cility Man-
Previous knowledge	4th semester: Fundamentals of the Real Estate Industry (GIM), Fundament agement (GFM), Real Estate Investment & Financing (FIN), Civil Engineer for Facility & Real Estate Management (REC), Selected Topics Social Com- tation (SOC) no	ring II (T	cility Man-
Previous knowledge ft Blocked 2 Participant group 2	agement (GFM), Real Estate Investment & Financing (FIN), Civil Enginee for Facility & Real Estate Management (REC), Selected Topics Social Con- tation (SOC) no	ring II (T	cility Man-
Participant group		ipeteriees	EC.2), Law
	A-levels and/or corresponding previous training, beginners		
	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECT	<u>S: 9</u>	
t Literature recommendation	 Bone-Winkel, S. and K. Schulte, 2008. Handbuch Immobilien-Projekten tion. Cologne: Rudolf Müller - Immobilien Manager Verlag. Diederichs, C., 2006. Immobilienmanagement im Lebenszyklus: Projekt jektmanagement, Facility Management, Immobilienbewertung. Berlin: Sp Kallinger, W., Gartner,H. and W. Stingl, 2011. Bauträger & Projektentw erfolgreich Entwickeln, Sanieren und Verwerten. Vienna: Manz. Klaubetz, E. et. al., 2016. Handbuch Immobilienprojektentwicklung. Vie Schäfer, J. and G. Conzen, 2013. Praxishandbuch der Immobilien-Proje nich: C.H.Beck. 	tentwicklu pringer. vickler: In enna: Lind	ıng, Pro- nmobilien de.
T Skills acquisition	 Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECTS 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 analy them independently Evaluate and create simple building and use concepts Present milestones in the processes of the planning and construction ple Identify building typologies and analyze and create function-oriented ar Analyze design rules Reproduce important architectural historical data, characteristics and cc Make sketches (2D and 3D) as a basis for communication in the construe Present, analyze and exemplary apply methods and instruments of real Identify project development tasks and types of project developers, unwork conditions of the industry and identify overlaps and connections with the real estate industry 	rses and p nases rea allocat prrelations uction sec estate m derstand f	tions tor arketing the frame-
	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECT	ς. θ	
Course contents	 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 		
;	20% of the module consists of exercises in small groups.		
<u></u>	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECTS	5: <u>9</u>	
Teaching and learning methods	Blended Learning		
Evaluation Methods Criteria	Real Estate Development /ILV / Course no.: DEV.1 / 4th semester / ECTS	<u>S: 9</u>	



Module number:	Densities Density of T		•
PRX.1	Practical Project I	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	4th semester		
Level	4th semester: Introduction and consolidation		
Previous knowledge	4th semester: all contents of the modules from semesters 1, 2 and 3.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
Literature recommendation	 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. and R. Westermann, 2004. Projektmanagement mit System. Wiesbaden 		1BOK)
	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
Skills acquisition	 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 implet this knowledge in line with the situation Name project management methods and apply the structures and processes of a c project independently using supporting project management tools. Communicate in a situation-appropriate and personal manner 		
Course contents	 <u>Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6</u> Fundamentals of project management and application of supporting to o Project planning (project organization, resource planning with time p cost, finance and budget planning) o Project management (time management, cost control and accountin quality management for projects) 67% of the module consists of independent implementation of a proje objective in small groups. The students are responsible for planning, co ing, control, communication and reporting as well as finding solutions. T leader is focused on coaching the students. 	planning as g, team le ect based c ordination,	adership, on a given , budget-
Teaching and learning methods	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
	Blended learning and problem-based & project-based learning		
Evaluation Methods Criteria	Practical Project I /ILV / Course no.: PRX.1 / 4th semester / ECTS: 6		
	Project and portfolio		



SER Sector Sector Degree program Bachelor Degree Course - Facility & Real Estate Management Degree program Bachelor Degree Course - Facility & Real Estate Management Devisition in the curriculum 4th semester Level 4th semester: Introduction Previous knowledge Industry (GIM), Selected Topics Business Administration (ECO.2) Blocked no Participant group A-levels and/or corresponding previous training, beginners Literature recommendation Facility Services /LU / Course no.: SER / 4th semester / ECTS : 5 Navy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Managements. Springer Vieweg. Literature recommendation Facility Services /LU / Course no.: SER / 4th semester / ECTS : 5 Brugger-Cebrardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safely and implement it meaningfully. 2nd edition. Wiesbaden: Springer Gabler Fachmedien. Gelihauser, M., Schulze, O., Segnerman, D. and J. Braize, 2015. Energiemanagement: Furgemennt. Furgemennt: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Springer Vieweg. Schröder, W. 2010. Gancheitliches Instandhaltungsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Soringer Vieweg. Schröder, W. 2010. Gancheitliches Instandhalturgsmanagement: Furgement. Furgement. Furgement. Strethe data services: -	Module number:	Facility Constant	Scope:	•
Position in the curriculum 4th semester Level 4th semester: Introduction Previous knowledge 4th semester: Introduction Previous knowledge 4th semester: Introduction Blocked no Participant group A-levels and/or corresponding previous training, beginners Facility Services /ILV / Course no. SER / 4th semester / ECTS: 5 • Näwy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Management. Ist edition. Wiesbaden: Springer Vieweg, • Kaiser, C. J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility Management. Ist edition. Wiesbaden: Springer Oleber fachmedien, • Wiesbader: Springer Vieweg, • Cellauser, W., 2010. Ganchathaltungsmanagement: Aufbau, Ausgestaltung • Gelinauser, W., 2010. Ganchathaltungsmanagement: Aufbau, Ausgestaltung • Celrate and review Service Level Agreements for fafferent property types • Present differences between result-oriented and performance-oriented bills of quantities and analyze various office concepts and land uses and present ergonomic and labor law requirements for analyze various office concepts and land uses and present ergonomic and labor law requirements and analyze relocation processes Skills acquisition • Define maintenance strategies and select them according to the requirements and processes of a Computer Aided Facility Management system. • Define maintenance strategies and celled and performance-oriented bills of q	SER	Facility Services	5	ECTS
Level 4th semester: Introduction Previous knowledge 4th 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 Eaclity Services /ILV / Course no.: SER / 4th semester / ECTS: 5 • Näw, J. and M. Schrötz; 2013. Facility Services - Die operative Ebene des Facility Managements. Berlin: Springer Vieweg. • Kaser, C., J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility Management. Iste dri ton. Wiesbacher: Springer Gabler. Springer Gabler Fachmedien. • Bingger-Gebrardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safely and imperment it manager. Wiesbacher: Springer Gabler Fachmedien. • Gelinausen, M., Schuize, O., Engelmann, D. and J. Franzel, 2015. Energiennangement: Für Fachkrätts, Beauftragte und Manager. Wiesbacher: Springer Gabler Fachmedien. • Geriting Services /ILV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: • Identify Facility Services and their contents • Identify requirements and tasks of quality management systems for the various facility services • Identify requirements and processes of energy audits and the energy management system. • Identify requirements and processes of energy audits and the energy management system. • Identify requirements and processe	Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Sector Enditive Services / Enditive Service Evel Agreements for Facility Services / Enditive Services / En	Position in the curriculum	4th semester		
Prevence Industry (GIM), Selected Topics Business Administration (ECO.2) Blocked no Participant group A-levels and/or corresponding previous training, beginners Eaclit/Services /ILV / Course no.: SER / 4th semester / ECTS: 5 Nawy, 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 Management. 1st edition. Wiesbaden: Springer Gebler 7achmedien. • Brugger-Geblardt, S. 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safely and implement it meaningfully. 2nd edition. Wiesbaden: Springer Gabler Fachmedien. • Geilhausen, M., Schulzer, O., Engelmann, D. and J. Brainger Gabler Fachmedien. • Geilhausen, M., Schulzer, O., Engelmann, E. 2015. Energiemangement: Fur Gabler, 70, 2010. Ganzholtithces Instandaltungsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler. Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: • Identify quality levels and different requirements for different property types • Present differences between result-oriented and performance-oriented bills of quantities and services • Oreate and review Service Level Agreements for Facility Services • Identify quality levels and processes of energy audits and present ergonomic and labor law requirements for work/pace design Biveret and analyze relocation	Level	4th semester: Introduction		
Participant group A-levels and/or corresponding previous training, beginners Eaclity Services /ILV / Course no.: SER / 4th semester / ECTS: 5 • Navy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Management. Services / Vieweg. • Kaiser, C., J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility Management. Ist edition. Wiesbaden: Springer Vieweg. • Brugger-Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safely and implement it meaningfully. Zondetico. Wiesbaden: Springer Gabber Fachmedien. • Schröder, W, 2010. Ganzbertichtes Instandationgsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler. • Schröder, W, 2010. Ganzbertichtes Instandatingsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler. • Schröder, JULV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: • Identify facility Services and their contents • Identify requirements con 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 values and present ergonomic and labor law requirements or workplace design and services • Create and review Service Level Agreements for facility Services • Define maintenance strategies and sel	Previous knowledge		als of the R	eal Estate
Eaclity Services /ILV / Course no.: SER / 4th semester / ECTS: 5 • 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 Management. 1st edition. Wiesbaden: Springer Vieweg. • Brugger-Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safety and implement it meaningfully. 2nd edition. Wiesbaden: Springer Gabler Fachmedien. • Gelihausen, M., Schutze, O., Engelmann, D. and J. Bränzel, 2015. Energiemanagement: Für Fachkräfte, Beauttragte und Manager. Wiesbaden: Springer Vieweg. • Schröder, W. 2010. Canchetitiches Instandhaltungsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler. Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: • Identify quality levels and different requirements for different poperty 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 of vorkplace design • Present and ranalyze relocation processes • Name and analyze various office concepts and land uses and present ergonomic and labor law requirements for workplace design • Create and review Service Level Agreements for accordpts • Present the contents of service level agreements • Present and analyze relocating proc	Blocked	no		
• Nävy, J. and M. Schröter, 2013. Facility Services - Die operative Ebene des Facility Managements. Berlin: Springer Vieweg. • Kaiser, C., J. Nusser and F. Schrämmel, 2018. Praxishandbuch Facility Management. 1st editive. Springer Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Interpret the standard safety and implement it meaningfully. 2nd edition. Wiesbaden: Springer Gabler Fachmedien Geilhauser, 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. • Identify Facility Services and their contents • Identify Facility Services and their contents • Identify requirements and tasks of quality management systems for the various facility services. Skills acquisition Skills acquisition Course contents Ourse contents Eadlity Services /ILV / Course no.: SER / 4th semester / ECTS: 5 The students are able to: • Identify quality levels and different requirements for different property types • Present and analyze relocation processes • Identify quality levels and service Level Agreements for Facility Services • Define maintenance strategies and select them according to the requirements • Present and analyze relocation processes • Describe the fundamentals of building cleaning and to calculate services <td>Participant group</td> <td>A-levels and/or corresponding previous training, beginners</td> <td></td> <td></td>	Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation ments. Berlin: Springer Vieweg. Literature recommendation • 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. Bränze, 2015. Energiemanagement: Für Fachkräfte, Beauftragte und Manager-Wiesbaden: Springer Vieweg. • Schröder, W., 2010. Ganzheitliches Instandhaltungsmanagement: Aufbau, Ausgestaltung und Bewertung. Wiesbaden: Gabler. • Identify Facility Services and their contents • Identify requirements and their contents • Identify requirements and tasks of quality management systems for the various facility services • Orreate and review Service Level Agreements for Facility Services • Orreate and review Service Level Agreements for Facility Services • Define maintenance strategies and select them according to the requirements • Orreate and analyze various office concepts and land uses and present ergonomic and labor law requirements for facility Services • Define maintenance strategies and select them according to the energy management system. • Define the undamentals of building cleaning and to calculate services • Orreate occupancy plans in dependencies of area concepts • Present the contents of a processes • Name and analyze various office concepts and land uses and present ergonomic and labor law requirements of building cleaning and to calculate serv		Facility Services / ILV / Course no.: SER / 4th semester / ECTS: 5		
The students are able to:Identify Facility Services and their contentsIdentify facility Services and their contentsIdentify quality levels and different requirements for different property typesPresent differences between result-oriented and performance-oriented bills of quantities and servicesCreate and review Service Level Agreements for Facility ServicesIdentify requirements and tasks of quality management systems for the various facility servicesDefine maintenance strategies and select them according to the requirementsPresent and analyze relocation processesName and analyze relocation processesName and analyze various office concepts and land uses and present ergonomic and labor law requirements for workplace designCreate occupancy plans in dependencies of area conceptsPresent the contents and processes of energy audits and the energy management system.Describe the fundamentals of building cleaning and to calculate servicesDescribe the process of a Computer Aided Facility Management (CAFM) implementationFacility Services /ILV / Course no.: SER / 4th semester / ECTS: 5Structure and procedures of a CAFM implementationMaintenance management with a focus on office space and work- place concepts, space planning, occupancy analyses, ergonomics, accessibility and change 	Literature recommendation	 ments. Berlin: Springer Vieweg. Kaiser, C., J. Nusser and F. Schrammel, 2018. Praxishandbuch Facility tion. Wiesbaden: Springer Vieweg. Brugger-Gebhardt, S., 2016. Understand DIN EN ISO 9001:2015: Inte safely and implement it meaningfully. 2nd edition. Wiesbaden: Springer Geilhausen, M., Schulze, O., Engelmann, D. and J. Bränzel, 2015. Ener Fachkräfte, Beauftragte und Manager. Wiesbaden: Springer Vieweg. Schröder, W, 2010. Ganzheitliches Instandhaltungsmanagement: Aufb 	Managemo rpret the s Gabler Fac giemanago	ent.1st edi- tandard chmedien. ement: Für
• 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 various office concepts and land uses and present ergonomic and labor law requirements for workplace design • Create occupancy plans in dependencies of area concepts • Describe the fundamentals of building cleaning and to calculate services • Describe the fundamentals of building cleaning and to calculate services • Describe the fundamentals of service level agreements • Describe the fundamentals of service level agreements • Describe the process of a Computer Aided Facility Management (CAFM) implementation • Describe the process of a Computer Aided Facility Services • Describe the process of a Computer Aided Facility Management • Escuture and procedures of a CAFM implementation • Measurement procedures of a CAFM implementation 		Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5		
Course contentsStructure and contents of service level agreements • Basic 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 work- place concepts, space planning, occupancy analyses, ergonomics, accessibility and change management • Basic concepts and calculations in cleaning managementTeaching and learning methodsFacility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 Blended LearningEvaluation Methods CriteriaFacility Services /ILV / Course no.: SER / 4th semester / ECTS: 5	Skills acquisition	 Identify Facility Services and their contents Identify quality levels and different requirements for different property Present differences between result-oriented and performance-oriented and services Create and review Service Level Agreements for Facility Services Identify requirements and tasks of quality management systems for the vices Define maintenance strategies and select them according to the require Present and analyze relocation processes Name and analyze various office concepts and land uses and present elaw requirements for workplace design Create occupancy plans in dependencies of area concepts Present the contents and processes of energy audits and the energy m Describe the fundamentals of building cleaning and to calculate service Describe the process of a Computer Aided Facility Management (CAFM) 	bills of qua e various f ements orgonomic a anagemen	acility ser- and labor t system.
management • Basic concepts and calculations in cleaning management • Basic concepts and calculations in cleaning management Teaching and learning methods Evaluation Methods Criteria Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 Blended Learning Evaluation Methods Criteria	Course contents	 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 Maintenance management and maintenance strategies Relocation management and space management with a focus on office 	e space an	d work-
Evaluation Methods Criteria Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5	Teaching and learning methods	management • Basic concepts and calculations in cleaning management Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5		change
Evaluation Methods Criteria				
	Evaluation Methods Criteria	Facility Services /ILV / Course no.: SER / 4th semester / ECTS: 5 Written exam		



Module number:	Technical Building Facilities T	Scope:	
TEC.3	Technical Building Facilities I	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Civil Engineering I (TEC.1), Civil Engineering II (TEC.2)		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester /	<u>ECTS: 6</u>	
Literature recommendation	 Recknagel, H., et al., 2018. Taschenbuch für Heizung und Klimatechni tion. Munich: Oldenbourg Burkhardt, W. and R. Kraus, 2011. Projektierung von Warmwasserheiz Munich: Oldenbourg Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung, technik. 1st edition. Munich: Edition Detail Hausladen, G., et al., 2004. ClimaDesign - Lösungen für Gebäude die I mehr können. Munich: Callwey Verlag Daniels, K., 2003. Advanced Building Systems. Munich, Zürich: Birkhäu Büttner, W. et al., 2011. Grundlagen der Elektrotechnik, 1st Munich: Cellwey Verlag 	rungen. 8t Innenausi mit wenige user Ndenbourg	h edition. bau, Haus- er Technik g
	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / E	CTS: 6	
Skills acquisition	 In respect of the heating, cooling, ventilation and electrical engineering table to: Describe technical building requirements Analyze and calculate technical solutions in the construction sector and preliminary planning phase. Have professional communication with TGA planners 	·	
	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester /	ECTS: 6	
Course contents	 Meteorological fundamentals, comfort Heating and cooling loads Heating systems: Description and characteristics of the most important heat exchangers, boilers, burners, heat pumps, solar systems, automatie Ventilation technology: Description and characteristics of the most impre.g. fans, air heaters and air coolers, air filters, air humidifiers and dehu ery, fire protection, automation equipment. Refrigeration: Description and characteristics of the most important confrigerating machines, recooling plants, cooling ceilings, circulating air coolers. Electrical engineering: Description and characteristics of the most impre.g. distribution, fuses, equipment The module contains 20% exercises. This form of teaching takes place in the second second	on equipm portant con midifiers, omponents oling units ortant con	nent mponents, heat recov- s, e.g. re- s nponents,
Teaching and learning methods	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / E	CTS: 6	
Teaching and learning methods	Blended Learning		
Fueluetien Math - J- Cuit-uit	Technical Building Facilities I /ILV / Course no.: TEC.3 / 4th semester / E	<u>CTS: 6</u>	
Evaluation Methods Criteria	Term paper and written exam		



Module number:			•
VAL	Property Valuation	4	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	4th semester		
Level	4th semester: Introduction		
Previous knowledge	4th semester: Fundamentals of the Real Estate Industry (GIM), Real E Financing (FIN), Selected Topics Business Administration (ECO.2)	state Inv	estment &
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4		
Literature recommendation	 Kranewitter, H., 2017. Liegenschaftsbewertung. 7th edition. Vienna: Manz. Seiser, F., F. Kainz, F., 2011. Der Wert von Immobilien. 1st edition. Graz: Seiser+Seise Immobilien Consulting. Bienert, S. and M. Funk, M., et al., 2014. Immobilienbewertung Österreich. Vienna: ÖV Kleiber, W., 2016. Verkehrswertermittlung von Grundstücken. 8th edition. Cologne: Bu desanzeiger Verlag. 		na: ÖVI.
Skills acquisition	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4 The students are able to: • Recognize correlations in the valuation procedures and the different typ • Understand the systematics of real estate valuation • Describe and apply national assessment procedures	pes of pro	perty
Course contents	 Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4 Fundamentals of property valuation Procedure and influencing factors of standardized valuation methods (method, material value method, capitalized earnings value method, DCF value method) Introduction to valuation of rights and encumbrances 	comparati method,	ive value residual
Teaching and learning methods	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4 Blended Learning		
Evaluation Methods Criteria	Property Valuation /ILV / Course no.: VAL / 4th semester / ECTS: 4 Written exam		



Module number:	Dest Estate Management	Scope:	
BEW	Real Estate Management		ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	5th semester		
Level	5th semester: Introduction		
Previous knowledge	5th semester: Fundamentals of the Real Estate Industry (GIM), Fundamenagement (GFM),Real Estate Development (DEV.1), Facility Services (SER		cility Man-
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS:	4	
Literature recommendation	 Gondring,H. and T. Wagner (Eds.), 2010. Real Estate Asset Manageme Praxis, Aus- und Weiterbildung. 1st edition. Munich: Vahlen. Malloth, T. (Ed.), 2013. Immobilienmanagement Österreich, ÖVI Wien. Bammer, O., K. Fuhrmann and R. Ledl (Eds.), 2011. Handbuch Immob 1st edition. Vienna: Linde. Pfnür, A. (Ed.), 2011. Modernes Immobilienmanagement, 3rd edition. 	5th editio ilienbewir	on. tschaftung.
Skills acquisition	 <u>Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS:</u> The students are able to: Describe and apply the fundamentals of building management Name and apply corporate and public real estate management and real agement activities Carry out property management activities, identify problem areas and p Collect, analyze and evaluate key management indicators 	estate as	
Course contents	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS: • Fundamentals of building management • Management and administration of WGG properties, WE properties, ap and commercial properties • Real estate asset management • Corporate real estate management • Public real estate management • Key management figures		buildings
Teaching and learning methods	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS: Blended Learning	4	
Evaluation Methods Criteria	Real Estate Management /ILV / Course no.: BEW / 5th semester / ECTS: Written exam	<u>4</u>	



Module number:	International Facility Management & Real Estate Development - Project & International Week		Scope:		
DEV.2			ECTS		
Degree program	Bachelor Degree Course - Facility & Real Estate Management				
Position in the curriculum	5th semester				
Level	5th semester: Consolidation				
Previous knowledge	5th semester: all content from modules 1., 2., 3 and 4. Semesters				
Blocked	no				
Participant group	A-levels and/or corresponding previous training, beginners				
	International Facility Management & Real Estate Development - Project &	k Internat	tional Week		
Literature recommendation	The literature is based on the project topics dealt with.				
	International Facility Management & Real Estate Development - Project &	Internati	ional Week		
Skills acquisition	 The students are able to: Create and present ideas and concepts for projects in facility management tate development with real or realistic tasks and problems. Work in interdisciplinary, international teams Reflect internationally on different approaches and possible solutions ar knowledge and skills from them 				
	International Facility Management & Real Estate Development - Project &	k Internat	tional Week		
Course contents2x blocked compact weeks in small groups with international students: • Introduction, consolidation, background and examples in the complex of topic ject 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		of topics o	of the pro-		
	International Facility Management & Real Estate Development - Project &	Internati	ional Week		
Teaching and learning methods	Problem & project-based learning, excursion, conference participation				
Evaluation Methods Criteria	International Facility Management & Real Estate Development - Project &	Internati	ional Week		
	2x independent projects from the respective compact weeks				



Practical Project II		Scope:	
		ECTS	
Bachelor Degree Course - Facility & Real Estate Management		•	
5th semester			
5th semester: Consolidation			
5th semester: Practical project I (PRX.1) and all teaching content from 4th semesters	the 1st, 2r	nd, 3rd and	
no			
A-levels and/or corresponding previous training, beginners			
Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
 Independently identify problems and tasks from a given objective Collect and analyze data independently Independently develop solutions and present results 		-	
 Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5 Examples and approaches from practice and research will be presented in lectures by experts as well as excursions to companies and research institutions. 80% of the module consists of independent implementation of a project based on a given objective in small groups. The students are responsible for planning, coordination, budgeting, control, communication and reporting as well as finding solutions. The role of the course leader is focused on coaching the students. 			
Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5			
Teaching and learning methods Presentation and problem-based & project-based learning			
	Bachelor Degree Course - Facility & Real Estate Management 5th semester Sth semester: Consolidation 5th semester: Practical project I (PRX.1) and all teaching content from 4th semesters no A-levels and/or corresponding previous training, beginners Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5 The students are able to build on and deepen their knowledge of the pr • 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 aspecific problems • Independently develop expertise to solve specific problems • Independently develop expertise to solve specific problems • Independently develop expertise to companies and research will be present perts as well as excursions to companies and research institutions. • 80% of the module consists of independent implementation of a proj objective in small groups. The students are responsible for planning, co ing, control, communication and reporting as well as finding solutions. leader is focused on coaching the students.	Practical Project II 5 Bachelor Degree Course - Facility & Real Estate Management 5 Sth semester 5 Sth semester 5 Sth semester: Consolidation 5 Sth semester: Practical project I (PRX.1) and all teaching content from the 1st, 2r 4th semesters no A-levels and/or corresponding previous training, beginners Practical Project II /ILV / Course no.: PRX.2 / 5th semester / ECTS: 5 The students are able to build on and deepen their knowledge of the practical pro • 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 resear specific problems • Independently develop expertise to solve specific problems • Independently develops from practice and research will be presented in lecture perts as well as excursions to companies and research institutions. • 80% of the module consists of independent implementation of a project based objective in small groups. The students are responsible for planning, coordination ing, c	



Module number:	Facing Language TIT	Scope:	
SPR.3		4	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	5th semester		
Level	5th semester: Consolidation		
Previous knowledge	5th semester: Foreign Language II		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
Literature recommendation			
	Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4		
	The modules are designed according to the Common European Framework of Refere Languages (CEFR). In the modules, students will acquire the language skills and dev skills necessary for a business-oriented professional or academic activity. The following competences are taught according to CEFR, i.e. after completion of the		
	ule, successful graduates will have mastered the following activities: A1 - Beginner Can understand and use familiar everyday expressions and very simple s satisfying specific needs. Can introduce him/herself and others and ask of tions about him/herself - e.g. where he/she lives, people he/she knows of - and can answer questions of this kind. Can communicate in a simple w tors speak slowly and clearly and are willing to help. A2 - Basic knowledge	sentences other peop or things h	aimed at le ques- le/she has
	Can understand sentences and frequently used expressions related to ar ate relevance (e.g. personal and family information, shopping, work, loc municate in simple, routine situations involving a simple and direct excha on familiar and common matters. Can describe with simple language his, ground and education, immediate environment and things related to imm	al area). C ange of inf /her own l	an com- formation back-
Skills acquisition	B1 - Advanced language use Can understand the main points when clear standard language is used a familiar matters from work, school, leisure, etc. Can cope with most situs when travelling in the area where the language is spoken. Can express h and coherently on familiar topics and personal areas of interest. Can rep and events, describe dreams, hopes and goals and give brief reasons or plans and views.	ations enco nimself/hei ort on exp	ountered rself simply periences
	B2 - Independent use of language Can understand the main contents of complex texts on concrete and abs derstands technical discussions in his/her own special field. Can commur ously and fluently that a normal conversation with native speakers is pos effort on both sides. Can express himself/herself clearly and in detail on ics, explain a point of view on a topical issue and indicate the advantage of different options.	nicate so s ssible with a wide rar	pontane- out much nge of top-
	C1 - Expert language skills Can understand a wide range of demanding, longer texts and also grasp Can express him/herself fluently and spontaneously without having to se often. Can use the language effectively and flexibly in social and profess tion and studies. Can express himself/herself clearly, in a structured and complex matters, using various means of text linking as appropriate.	arch for w ional life o	vords more or in educa-
C2 - Approximate mother-tongue knowledge Can easily understand practically anything he/she reads or hears. Can summa mation from various written and oral sources, presenting reasons and explana herent presentation. Can express himself/herself spontaneously, very fluently and can also make clear finer nuances of meaning in more complex situations		planations ently and	s in a co-
Course contents	Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4 A1 – Beginner		



Course contents	Understand and use familiar everyday expressions and very simple sentences aimed at satis- fying specific needs. Introduce himself/herself and others and ask other people questions about him/herself - e.g. where he/she lives, people he/she knows or things he/she has - and answer questions of this kind. Communicate in a simple way if the interlocutors speak slowly and clearly and are willing to help. A2 - Basic knowledge Understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. personal and family information, shopping, work, local area). Communicate in simple, routine situations involving a simple and direct exchange of information on familiar and common matters. Describe with simple language his/her own background and educa- tion, immediate environment and things related to immediate needs. B1 - Advanced language use Use clear standard language and communicate on familiar matters from work, school, lei- sure, etc. Apply relevant conversation skills for travel in the area in which the language is spoken. Express himself/herself simply and coherently on familiar topics and personal areas of interest. Report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views. B2 - Independent use of language Express the main contents of complex texts on concrete and abstract topics; participate in technical discussions in his/her own special field. Communicate so spontaneously and flu- ently that a normal conversation with native speakers is possible without much effort on both sides. Express himself/herself clearly and in detail on a wide range of topics, explain a point of view on a topical issue and indicate the advantages and disadvantages of different op- tions. C1 - Expert language skills Understand a wide range of demanding, longer texts and also grasp implicit meanings. Ex- press himself/herself fluently and spontaneously without having to search for words more of- ten. Use the language effectively and flexibl
	Express himself/herself spontaneously, very fluently and precisely, and can also make clear finer nuances of meaning in more complex situations.
Teaching and learning methods	<u>Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4</u> Course book - by arrangement; authentic materials, e.g. from English language journals (in-
	cluding specialist journals), newspapers and online media
	Foreign Language III /ILV / Course no.: SPR.3 / 5th semester / ECTS: 4
Evaluation Methods Criteria	The performance and competence of the students in reading comprehension, listening com- prehension, written expression, oral expression and the quality of their cooperation (also online) are taken into account for the assessment.



Module number:	– Technical Building Facilities II		Scope:	
TEC.4			ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management			
Position in the curriculum	5th semester			
Level	5th semester: Introduction and consolidation			
Previous knowledge	5th semester: Technical Building Facilities I (TEC.3)			
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
Literature recommendation	 <u>Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester /</u> Feurich, H. and L. Kühl, 2011. Sanitärtechnik Volumes 1 + 2. 10th exp seldorf: Krammer Verlag Hausladen, G., K. Tichlmann, 2009. Ausbau Atlas - Integrale Planung, technik. 1st edition. Munich: Edition Detail Unger, D., 2018. Aufzüge und Fahrtreppen: Ein Anwenderhandbuch (V tion. Berlin: Springer Vierweg 	anded edi Innenausl	bau, Haus-	
Skills acquisition	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester / 1 The students are able to work with sanitary engineering, elevators, escal forms, automatic doors, garage technology, fire alarm systems and safet • Describe technical building requirements • Analyze and calculate technical solutions in the construction sector and preliminary planning phase. • Have professional communication with TGA planners	ators, lifti y lighting:	:	
Course contents	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th 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 / Course no.: TEC.4 / 5th semester / ECTS: 5 Blended Learning			
Evaluation Methods Criteria	Technical Building Facilities II /ILV / Course no.: TEC.4 / 5th semester / ECTS: 5 Term paper and written exam			



Module number:	International Facility Management & Real Estate Development	Scope:	·
DEV.3	- Practice, Research & Study Trip	6	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	6th semester		
Level	6th semester: Consolidation		
Previous knowledge	6th semester: all contents of the modules from the 1st, 2nd, 3rd, 4th an	d 5th sem	lesters
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	International Facility Management & Real Estate Development - Practice	Research	n & Study
Literature recommendation	 Thomas, A. (Ed.) (2003). Handbuch Interkulturelle Kommunikation und Grundlagen und Praxisfelder. Göttingen: Vandenhoeck & Ruprecht Thomas, A. (Ed.), 2003. Handbuch Interkulturelle Kommunikation und Grundlagen und Praxisfelder. Göttingen: Vandenhoeck & Ruprecht Jones, E.: Cultures Merging. Princeton: Princeton University Press Further literature depends on the respective field trip destination. 		
	International Facility Management & Real Estate Development - Practice,	Research	& Study
Skills acquisition	 The students are able to: Understand and question international developments and their impact of industry and facility management. Describe and question current global trends in the industry Understand and question different approaches to specific problems in the try 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 cultural settings. Understand intercultural differences and be able to react appropriately of Facility & Real Estate Management 	he real est apply the	tate indus- m in inter-
Course contents	 International Facility Management & Real Estate Development - Practice, Research & Stud The part-time students must complete an accompanied study trip / trip abroad with a spe cialist 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 Facili & 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 conferer 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, commu- cation and conflict skills Special features and challenges of intercultural projects for Facility & Real Estate Manage 		th a spe- p / trip the Facility oppe of a onferences the Manage- of this communi-
Toaching and loarning methods	ment International Facility Management & Real Estate Development - Practice,	Research	& Study
Teaching and learning methods	Lecture, discussion and excursion		
Evaluation Methods Criteria	International Facility Management & Real Estate Development - Practice, Portfolio	Research	& Study



Module number:		Scope:	•
PRX.3	Internship	14	ECTS
Degree program	Bachelor Degree Course - Facility & Real Estate Management		
Position in the curriculum	6th semester		
Level	6th semester: Consolidation		
Previous knowledge	6th semester: Selected topics Social Competences & Presentation (SOC modules with cross-links to the areas of responsibility of the internship 5.		
Blocked	no		
Participant group	A-levels and/or corresponding previous training, beginners		
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 14		
Literature recommendation	 Brenner, D., 2007. Schön, dass Sie da sind!: Karrierestart nach dem S BW Verlag Cark, T., A. Osterwalder and Y. Pigneur, 2012: Business Model You: D Karriere - Dein Spiel Broschiert. Frankfurt a.M.: Campus Verlag Wehrle, M., 2019. Career counseling: Menschen wirksam im Beruf unt Beltz. 	Dein Leben	- Deine
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 14		
Skills acquisition	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 project lutions as well as justify them with comprehensible arguments and prese and goal-oriented way • Successfully use communication at all levels (superiors, colleagues, em- partners) to solve problems • Independently develop expertise to solve specific problems	ent results	in a clear
	Internship / BPR / Course no.: PRX.3 / 6th semester / ECTS: 14		
	Part-time students must complete an internship of 8 ECTS = 200 hours credited to students working in a specific subject. The following contenting the internship:		
Course contents	• Supplementing and deepening the knowledge acquired during the coupractical activities and questions of commercial law at an external compensures that the students find their way when they start their professio re-orientate after their studies, and that they gain confidence in the impacquired knowledge through experience they have already gained.	oany. The ii nal life or v	nternship when they
	In addition to the internship, the following teaching and learning conter module, and are further developed with exercises and supplementary w • Reflection on one's own strengths • Possibilities of self-marketing • Implementation strategies for a personal work-life balance		of this
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 14		
Teaching and learning methods	Blended learning, exercise and internship		
	Internship /BPR / Course no.: PRX.3 / 6th semester / ECTS: 14		
Evaluation Methods Criteria	Portfolio		
	-		



Module number:	Bachelor Thesis Seminar		Scope:	
WIS.3			ECTS	
Degree program	Bachelor Degree Course - Facility & Real Estate Management			
Position in the curriculum	6th semester			
Level	6th semester: Consolidation			
Previous knowledge	6th semester: Scientific & empirical methods (WIS.1), Selected topics a methods (WIS.2) and contents from the modules with links to the topic o of semesters 1 to 5.			
Blocked	no			
Participant group	A-levels and/or corresponding previous training, beginners			
Literature recommendation				
	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECTS	: <u>10</u>		
Skills acquisition	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 nece compare different views • Independently collect, interpret and critically reflect on data with the he academic methodology, thereby developing and further developing arguin solutions • Present results in a comprehensible manner and according to academic form of a Bachelor thesis • Organize oneself • Independently prepare and learn knowledge and skills from cross-conn course contents for the final Bachelor examination in a systematic manner	elp of a se ments and standard ections of	elf-chosen problem s in the	
Course contents	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECTS: 10 • Deepening the knowledge of academic work in relation to the independent Bachelor thesi • Visualization of academic results such as posters, video, infographics, etc. • Regular meetings to discuss the current status and progress of the Bachelor thesis with a companying academic supervision • Information on the Commission Bachelor examination			
Teaching and learning methods	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th semester / ECTS: 10 Blended learning and supervision of the Bachelor thesis			
Evaluation Methods Criteria	Bachelor Thesis Seminar /ILV / Course no.: WIS.3 / 6th 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 Englishlanguage 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 vzB/bbB
FOS	
- Technology	Х
- Economics & Administration	Х
- Social Welfare	Х
- Agriculture, Biotechnology and Environmental Technology	Х
- Design	Х
- Health	Х
- International Business Studies	Х
BOS	
- Technology	Х
- Economics & Administration	Х
- Social Welfare	Х
- Agriculture, Biotechnology and Environmental Technology	x
- Health	Х
- International Business Studies	Х
In the case of relevant internships (construction, real estate, technology), other disciplines can also be accepted (after consultation with the Director of Studies)	