

Surveying

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	20/21	20/21	20/21	20/21
								sp1	sp2	sp3	sp4
FMAB65	7.5	G1	-	S	Calculus in One Variable B1		KS KE U W T	1			
VFTA05	15	G1	-	S	Introductory Law and Real Estate Law		KS KE U W T	1	2		
FMAB70	7.5	G1	-	S	Calculus in One Variable B2		KS KE U W T		2		
FMAB20	6	G1	-	S	Linear Algebra		KS KE U W T			3	
VTVA01	12	G1	-	S	Infrastructure Technique		KS KE U T			3	4
VTVA05	12	G1	-	S	Sustainable Construction		KS KE U T				4

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	20/21	20/21	20/21	20/21
								sp1	sp2	sp3	sp4
FMAB30	6	G1	-	S	Calculus in Several Variables		KS KE U W T	1			
EDAA20	7.5	G1	-	S	Programming and Databases		KS KE U W T	1			
FMSE50	7.5	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W T		2		
EXTA50	9	G1	-	S	Surveying		KS KE U W T		2		
EXTF80	12	G2	-	S	Geographic Information Technology		KS KE U W T			3	4
VFTA01	18	G1	-	S	Real Estate and Physical Planning		KS KE U W T			3	4

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	20/21	20/21	20/21	20/21
								sp1	sp2	sp3	sp4
VFTE01	15	G2	-	S	Economics		KS KE U W T	1			
VFTE25	10	G2	-	S	Real Estate Valuation and Analysis		KS KE U W T		2		
VFTE30	5	G2	-	S	Takings - Valuation and Compensation		KS KE U W T		2		
VFTE10	15	G2	-	S	Real Property Formation		KS KE U W T			3	4

Study Year 3 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links				
								20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4
EXTG70	7.5	G2	-	S	Environmental Law		KS KE U W T			3	
EDAA01	7.5	G1	-	S	Programming - Second Course		KS KE U W T			3	
VBEF05	7.5	G2	-	S	Construction Process and Project Management		KS KE U W T				4
VGME10	7.5	G2	X	E1	Geodesy		KS KE U W T				4
ASBF10	7.5	G2	-	S	Sustainable Urban Design		KS KE U T				4

Specialisation fe - Real Estate Economics

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links				
			Year	From year	S.Ex.	stud.	sp1				sp2	sp3	sp4	
VERN10	7.5	A	V	4	4	-	S	Land Planning and Building Permits	KS KE U W T	1				
VFTN50	7.5	A	V	4	4	-	S	The Real Estate Market	KS KE U W T	1				
VFTN35	7.5	A	V	4	4	-	S	Evolutionäre Urban Processes	KS KE U T		2			
VFTN60	7.5	A	V	4	4	X	E	Real Estate Business	KS KE U W T		2			
ABKF01	7.5	G2	V	4	4	-	S	Technical Management of Buildings	KS KE U W T		2			
VFTN65	7.5	A	V	4	4	X	E1	Methods in Real Estate Economics and Management	KS KE U W T			3		
VERN05	7.5	A	V	4	4	-	S	Purchasing Commercial Real Estate	KS KE U W T			3		

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp1 sp2 sp3 sp4			
			Year	From year	S.Ex.	stud.								
VBEF10	7.5	G2	V	4	4	-	S	Real Estate Management		KS KE U W T			3	
EMSN30	7.5	A	V	4	4	X	E	Linear and Logistic Regression		KS KE U W T				4
VERN01	7.5	A	V	4	4	-	S	Tenancy		KS KE U W T				4
VBEN01	7.5	A	V	4	4	-	S	The Role of the Construction Client		KS KE U W T				4
VFTN10	7.5	A	V	5	5	X	E1	Urban Economics		KS KE U W T	1			
VFTN20	7.5	A	V	5	5	-	S	Principles of Compensation in Real Estate		KS KE U W T		2		
VFTN15	7.5	A	V	5	4	-	S	Law and Economics	X	KS KE U W T	Course on hold			

[VFTN15](#) Law and Economics: *The course is offered every other academic year and will be given in 2021/22, 2023/24.*

Specialisation fr - Real Estate Law

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
												sp1	sp2	sp3	sp4	
VFTN05	7.5	A	V		4	4	-	S	Cadastral Procedure		KS KE U W T	1				
VERN10	7.5	A	V		4	4	-	S	Land Planning and Building Permits		KS KE U W T	1				
VFTN35	7.5	A	V		4	4	-	S	Evolutionary Urban Processes		KS KE U T		2			
ABKF01	7.5	G2	V		4	4	-	S	Technical Management of Buildings		KS KE U W T		2			
EXTN10	7.5	A	V		4	4	X	E1	Web GIS	X	KS KE U W T		2			
VERN05	7.5	A	V		4	4	-	S	Purchasing Commercial Real Estate		KS KE U W T				3	
VFTN55	7.5	A	V		4	4	-	S	Residential Tenancy		KS KE U W T				3	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
EMIN45	7.5	A	V	4	4	-	S	Environmental Impact Assessment		KS KE U W T				4
VERN01	7.5	A	V	4	4	-	S	Tenancy		KS KE U W T				4
VFTN10	7.5	A	V	5	5	X	E1	Urban Economics		KS KE U W T	1			
ASBN50	7.5	A	V	5	5	X	S	Urban Renewal		KS KE U T	1			
VFTN20	7.5	A	V	5	5	-	S	Principles of Compensation in Real Estate		KS KE U W T		2		
VFTN75	7.5	A	V	5	4	X	E	Smart City Governance: AI Ethics in a Spatial Context		KS KE U W T		2		
VFTN15	7.5	A	V	5	4	-	S	Law and Economics	X	KS KE U W T	Course on hold			
VFTN45	7.5	A	V	5	4	-	S	Land Use Law	X	KS KE U W T	Course on hold			

[EXTN10](#) Web GIS: *The date and time of the exam is announced by the course lecturer.*

[VFTN15](#) Law and Economics: *The course is offered every other academic year and will be given in 2021/22, 2023/24.*

[VFTN45](#) Land Use Law: *The course is offered every other academic year and will be given in 2021/22, 2023/24.*

Specialisation gi - Geographic Information Science

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp1 sp2 sp3 sp4			
			Year	From year	S.Ex.	stud.	1				2	3	4	
EDAF80	7.5	G2	V	4	4	X	E	Computer Graphics		KS KE U W T	1			
ETSN05	7.5	A	V	4	4	-	S	Software Development for Large Systems		KS KE U W T	1			
EXTQ05	7.5	A	V	4	4	X	E1	Algorithms in Geographical Information Systems	X	KS KE U W T		2		
EXTN10	7.5	A	V	4	4	X	E1	Web GIS	X	KS KE U W T		2		
EMAF10	5	G2	V	4	4	-	S	Applied Mathematics - Linear systems		KS KE U W T			3	
EXTN70	7.5	A	V	4	4	X	E1	Geographical Databases	X	KS KE U W T			3	
EXTN75	7.5	A	V	4	4	X	E1	Spatial Analysis	X	KS KE U W T			3	

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
												sp1	sp2	sp3	sp4
EDAF90	7.5	G2	V		4	4	X	S	Web Programming		KS KE U T			3	
EDAF75	7.5	G2	V		4	4	X	S	Database Technology		KS KE U W T			3	4
EDAF05	5	G2	V		4	4	X	S	Algorithms, Data Structures and Complexity		KS KE U W T				4
EDAN40	7.5	A	V		4	4	X	E	Functional Programming		KS KE U W T				4
VGMEF10	7.5	G2	V		4	4	X	E1	Geodesy		KS KE U W T				4
EXTP40	7.5	A	V		5	5	-	E	GIT Project with Python Programming	X	KS KE U W T	1			
EMAN20	7.5	A	V		5	5	X	E1	Image Analysis		KS KE U W T	1			

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
												sp1	sp2	sp3	sp4	
MAMN25	7.5	A	V		5	5	-	S	Interaction Design		KS KE U W T	1				
EDAF60	4.5	G2	V		5	5	-	S	Object-oriented Modelling and Design		KS KE U W T	1				
EDAG05	7.5	G2	V		5	4	-	E1	Agile Software Development - Project		KS KE U W T		2			
EDAN35	7.5	A	V		5	5	X	E	High Performance Computer Graphics		KS KE U W T		2			
VFTN75	7.5	A	V		5	4	X	E	Smart City Governance: AI Ethics in a Spatial Context		KS KE U W T		2			

[EXTQ05](#) Algorithms in Geographical Information Systems: *The date and time of the exam is announced by the course lecturer.*

[EXTN10](#) Web GIS: *The date and time of the exam is announced by the course lecturer.*

[EXTN70](#) Geographical Databases: *The date and time of the exam is announced by the course lecturer.*

[EXTN75](#) Spatial Analysis: *The date and time of the exam is announced by the course lecturer.*

[EXTP40](#) GIT Project with Python Programming: *The date and time of the exam is announced by the course lecturer.*

Elective Courses - L

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links			
		Year	From year	S.Ex. stud.	sp1	sp2			sp3	sp4		
IYT000	15	G2	4	3	-	S	Engineering Training Course	KS KE U W	1			
IYT000										2		
VTFE01	7.5	G2	4	4	-	S	Traffic Engineering	KS KE U W T		2		
IYT000	15	G2	4	3	-	S	Engineering Training Course	KS KE U W				3
IYT000												4
VFTN25	7.5	A	4	4	-	S	Seminars in Real Estate Science	KS KE U W T				4
VFTN70	7.5	A	5	5	-	S	Built Environment in a Transdisciplinary Perspective of Sustainability	KS KE U T	1	2		

Externally Elective Courses - L

Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links			
			Year	From year					sp1	sp2	sp3	sp4
GEMA20	7.5	G1	4	1	-	E	English for Engineers	KS KE U W T	1	2		
GEMA25	7.5	G1	4	1	-	S	German for Engineers	KS KE U W T	1	2		
GEMA65	7.5	G1	4	1	-	S	Chinese for Engineers	KS KE U W T			3	4
GEMA20	7.5	G1	4	1	-	E	English for Engineers	KS KE U W T			3	4
GEMA01	7.5	G1	4	1	-	S	French for Engineers: Language, Culture and Society, First Course	KS KE U W T			3	4
GEMA70	15	G1	4	1	-	S	Japanese for Engineers	KS KE U W T			3	4

Bachelor's Projects - L

The list contains the bachelor's projects that are included in the L programme.

Links

Course Code	Credits	Course Name	Links
VBEL01	15	Bachelor Project in Construction Management	KS KE U W
VGML01	15	Bachelor Project in Geodetic Surveying	KS KE U
EXTL01	15	Bachelor Project in Geographic Information Technology	KS KE U W
VFTL01	15	Bachelor Project in Real Estate Science	KS KE U
ASBL01	15	Bachelor Project in Urban Planning and Design	KS KE U

Degree Projects - L

The list contains the degree project courses that are included in the L programme.

Links

Course Code	Credits	Course Name	Links
VBEM01	30	Degree Project in Construction Management	KS KE U W
VGMM01	30	Degree Project in Geodetic Surveying	KS KE U
EXTM05	30	Degree Project in Geographic Information Technology	KS KE U W
VFTM01	30	Degree Project in Real Estate Science	KS KE U W
ASBM05	30	Degree Project in Urban Planning and Design	KS KE U