

Annex 2:
Study schedule

with the type and scope of the courses in SWS as well as the required achievements, the type, scope, and structure of which can be found in the module descriptions.

Number of module	Name of module	1. semester	2. semester	3. semester (M)	4. semester	CP
		V/Ü/T/S/Sk/Pj/L	V/Ü/T/S/Sk/Pj/L	V/Ü/T/S/Sk/Pj/L	V/Ü/T/S/Sk/Pj/L	
Modules of the compulsory area						
VW-TEc-MA-PFL 10	Operations Research and Logistics	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-PFL 20	Methods in Transport Policy	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-PFL 30	Spatial Economics and the Environment	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-PFL 40	Theoretical Multivariate Statistics	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-PFL 50	Methods in Data Analytics	2/2/0/0/0/0/0 PL				5
Modules of the compulsory elective area of the module group Specializations *1						
<i>Modules of Specialization Computational Logistics</i>						
VW-TEc-MA-SPE 11	Decision Support in Transportation Logistics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 12	Management of Public Transport Systems and Services		2/2/0/0/0/0/0 PL			5
<i>Modules of Specialization Transport Policy</i>						
VW-TEc-MA-SPE 21	Cost-Benefit Analysis in Transport		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 22	Cost and Prices in Transport		2/2/0/0/0/0/0 PL			5
<i>Modules of Specialization Spatial and Environmental Economics</i>						
VW-TEc-MA-SPE 31	Empirical Research in Spatial and Environmental Economics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 32	Urban Economics		2/2/0/0/0/0/0 PL			5
<i>Modules of Specialization Statistics</i>						
VW-TEc-MA-SPE 41	Applied Multivariate Statistics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 42a	Data-Driven Multivariate Statistics		2/0/0/0/0/0/0 PL			5
<i>Modules of Specialization Data Analytics in Transportation</i>						
VW-TEc-MA-SPE 51	Advanced Methods in Data Analytics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 52	Application of Data Analytics		0/0/0/2/0/0/0 PL			5

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Modules of the compulsory elective area of the module group Research Papers *2						
VW-TEc-MA-SPE 13	Research Task in Computational Logistics			0/0/0/2/0/0/0 PL		15
VW-TEc-MA-SPE 23	Research Task in Transport Policy			0/0/0/2/0/0/0 PL		15
VW-TEc-MA-SPE 33	Research Task in Spatial and Environmental Economics			0/0/0/2/0/0/0 PL		15
VW-TEc-MA-SPE 43	Research Task in Statistics			0/0/0/2/0/0/0 PL		15
VW-TEc-MA-SPE 53	Research Task in Data Analytics in Transportation			0/0/0/2/0/0/0 PL		15
Modules of the compulsory elective area of the module group Supplements *3						
<i>Area of Transportation Economics</i>						
VW-TEc-MA-SPE 11*4	Decision Support in Transportation Logistics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 12*4	Management of Public Transport Systems and Services		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 21*4	Cost-Benefit Analysis in Transport		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 22*4	Cost and Prices in Transport		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 31*4	Empirical Research in Spatial and Environmental Economics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 32*4	Urban Economics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 41*4	Applied Multivariate Statistics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 42a*4	Data-Driven Multivariate Statistics		2/0/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 51*4	Advanced Methods in Data Analytics		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-SPE 52*4	Application of Data Analytics		0/0/0/2/0/0/0 PL			5
VW-TEc-MA-ERG 24	Current Topics in Transport Policy			0/0/0/2/0/0/0 PL*5		5
VW-TEc-MA-ERG 25	Cost-Benefit Evaluation of Infrastructure Projects and Traffic Law	4/0/0/0/0/0/0 PL				5
VW-TEc-MA-ERG 34	Current Topics in Spatial and Environmental Economics			0/0/0/2/0/0/0 PL*5		5
VW-TEc-MA-ERG 44	Methods in Transportation Econometrics and Statistics	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-ERG 45	Traffic Flow Dynamics and Simulation		2/2/0/0/0/0/0 PL			5

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<i>Area of Transportation Engineering</i>						
VW-TEc-MA-VIW 101	Applied Computer Science			2/2/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 102	Safeguarding Railway Operation	3/1/0/0/0/0/0 PL				5
VW-TEc-MA-VIW 103	Railway Signalling		4/0/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 104a	Operational Processes and Operational Planning in Public Passenger Transport	2/2/0/0/0/0/0 PL				5
VW-TEc-MA-VIW 105	Planning, Construction and Operation of Local Traffic Systems, Special Lectures		4/0/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 106	Railway Construction			3/1/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 107	Management of Plant Construction Projects			2/2/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 108	Operational Planning and Operational Management in Public Transport		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 109	Operation of Urban and Regional Public Transport		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 110	Planning and Design of Railway Systems		2/0/0/0/0/0/0	2/0/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 111	Planning of Signalling Facilities		3/1/0/0/0/0/0 2xPL			5
VW-TEc-MA-VIW 112a	Aerodynamics and Flight Performance	7/1/0/0/0/0/0,5 PL				5
VW-TEc-MA-VIW 113	CNS and Tactical ATM			6/1/0/0/0/0/1 PL		10
VW-TEc-MA-VIW 114	Flight Planning and Aircraft Operations			4/0,5/0/0/0/0/0,5 PL		5
VW-TEc-MA-VIW 115	Safety and Airline Management		3/1/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 116	Terminal Operations		3/1/0/0/0/0/0 PVL; PL			5
VW-TEc-MA-VIW 117	Helicopter Technology		2/0/0/0/0/0/0	2/0/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 118b	Technologies of Road Traffic Control			4/0/0/0/0/0/1 PL		5
VW-TEc-MA-VIW 119a	Optimal Control Methods and Algorithms for Decision Making Problems			4/3/0/1/0/0/0 PL		10
VW-TEc-MA-VIW 120	Transportation Telematics Networks	3/1/0/0/0/0/0 PL				5
VW-TEc-MA-VIW 121	Theory and Technology of Information Systems	3/1/0/0/0/0/0 PL				5
VW-TEc-MA-VIW 122	Vehicle Communications and Positioning			2/2/0/0/0/0/0 PL		5

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VW-TEc-MA-VIW 123	Technology Assessment		4/2/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 124	Design and Operation of Virtual Mobility Systems		3/1/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 125	Transport Ecology	2/0/0/2/0/0/0 PL				5
VW-TEc-MA-VIW 126	Methods of Transport Ecology	0/0/0/4/0/0/0 PL				5
VW-TEc-MA-VIW 127	Road Design	2/1/0/0/0/0/0 PVL; PL				5
VW-TEc-MA-VIW 128b	Special Problems in Traffic Flows Science	3/3/0/0/0/0/0 PL	2/2/0/0/0/0/0 PL			15
VW-TEc-MA-VIW 131a	Transport and Infrastructure Planning		3/1/0/0/0/0/0 PL			5
VW-TEc-MA-VIW 132	Geodata Infrastructures			2/1/0/0/0/0/0 2xPL		5
VW-TEc-MA-VIW 133	Basics in Psychology and Behavioural Economics	0/0/0/2/0/0/0 PL				5
VW-TEc-MA-VIW 134	Advanced Issues in Psychology and Behavioural Economics		0/0/0/2/0/0/0 PL			5
VW-TEc-MA-VIW 136	Electric Railways	3/0/0/0/0/0/0 PVL	4/0/0/0/0/0/0 2xPL			10
VW-TEc-MA-VIW 137	Electric Urban Transport Systems			2/2/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 138	Contact Lines			2/2/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 139	Basic of Electrical Engineering for Transport Engineering			3/1/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 147	Research seminar in transport ecology: "Data gathering methods in bicycle traffic"		0/0/0/4/0/0/0 PL			5
VW-TEc-MA-VIW 148	Transport Network Optimization with Emerging Data for Ethical and Sustainable Applications			3/0/0/0/0/0/0 PL		5
VW-TEc-MA-VIW 149	Market-orientated design of rail freight and passenger transport			3/0/0/1/0/0/0 PL		5
<i>Area of Business Administration</i>						
VW-TEc-MA-BWL 202	Supply Management			2/2/0/0/0/0/0 2xPL		5
VW-TEc-MA-BWL 203	Inventory Management			2/2/0/0/0/0/0 PL		5
VW-TEc-MA-BWL 204a	Power System Economics			2/2/0/2/0/0/0 2xPL		10
VW-TEc-MA-BWL 205a	Financing with Venture Capital		3/0/0/0/0/2/0 2xPL			10

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VW-TEc-MA-BWL 208	Relationship-Marketing	3/0/0/0/0/0/0 PL				5
VW-TEc-MA-BWL 210	Technology Management			2/0/0/0/0/2/0 2xPL		5
VW-TEc-MA-BWL 211	Environment-Oriented Production Planning		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-BWL 212	Sustainability Management and Controlling			2/0/1/0/0/0/0 PL		5
VW-TEc-MA-BWL 213b	Ressource Management		2/0/0/0/0/2/0 PL			5
VW-TEc-MA-BWL 214	Managing People and Organizations			0/0/0/3/0/0/0 2xPL		5
VW-TEc-MA-BWL 215	Corporate Sustainability			2/0/0/0/0/0/0 PL		5
<i>Area of Economics</i>						
VW-TEc-MA-VWL 302	Theory of Taxation			2/1/0/0/0/0/0 PL		5
VW-TEc-MA-VWL 303	Theory of the Welfare State		2/1/0/0/0/0/0 PL			5
VW-TEc-MA-VWL 304	Resource Economics			2/1/0/0/0/0/0 PL		5
VW-TEc-MA-VWL 306	Economics of Migration		2/1/0/0/0/0/0 PL			5
VW-TEc-MA-VWL 307a	Economics of Education			2/0/0/0/0/0/0 PL		5
VW-TEc-MA-VWL 308	Computable General Equilibrium Analysis		2/2/0/0/0/0/0 PL			10
VW-TEc-MA-VWL 310	Exchange Rates			2/0/0/0/0/0/0 PL		5
VW-TEc-MA-VWL 313	Financial Stability and Regulation of Financial Markets			2/0/0/0/0/0/0 PL		5
VW-TEc-MA-VWL 315	Development Economics		2/1/0/0/0/0/0 PL			5
VW-TEc-MA-VWL 316	Empirical Economics			2/1/0/0/0/0/0 2xPL		5
VW-TEc-MA-VWL 317a	Microeconomic Perspectives on Development Economics			2/1/0/0/0/0/0 2xPL		5
VW-TEc-MA-VWL 318a	Introduction to Geographic Information Systems		2/1/0/0/0/0/0 2xPL			5
VW-TEc-MA-VWL 319	Current Topics in Empirical Economic Research			0/0/0/2/0/0/0 PL		5
<i>Area of Business Informatics</i>						
VW-TEc-MA-WIF 404	ERP-supported Business Processes				0/0/0/0/0/3/0 PL	5
VW-TEc-MA-WIF 405	IT-Management and IT-Architecture		2/1/0/0/0/0/0 PL			5
VW-TEc-MA-WIF 406	Corporate Communications			1/1/1/1/0/0/0 2xPL		5

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VW-TEc-MA-WIF 407	Knowledge Management		1/1/1/1/0/0/0 2xPL			5
VW-TEc-MA-WIF 408	Basic Principles of Information Systems		2/2/0/0/0/0/0 PL			5
VW-TEc-MA-WIF 409	SAP-Anwendungen			0/4/0/0/0/0/0 2xPL		5
VW-TEc-MA-WIF 410b	Digital Business Engineering			1/0/0/0/0/2/0 2xPL		5
<i>Area of Foreign Language Communication (max. 10 LP) *6</i>						
VW-TEc-MA-FFK 501	Elementary Level Foreign Language (CEFR A2)	0/0/0/0/4/0/0 2xPL				5
VW-TEc-MA-FFK 502	Advanced Elementary Level Foreign Language (CEFR A2+)	0/0/0/0/4/0/0 2xPL				5
VW-TEc-MA-FFK 503	Extension Module Intermediate Level Foreign Language (CEFR B1)	0/0/0/0/4/0/0 2xPL				5
VW-TEc-MA-FFK 504	Extension Module Intermediate Level Foreign Language (CEFR B1+)	0/0/0/0/4/0/0 2xPL				5
VW-TEc-MA-FFK 505a	Introduction to Professional and Academic Language: Working with Texts and Oral Communication (CEFR B2+)	0/0/0/0/4/0/0 2xPL*8				5
VW-TEc-MA-FFK 506a	Introduction to Professional and Academic Language: Written Communication and Application Training plus one Profile Course (CEFR B2+)	0/0/0/0/4/0/0 2xPL*8				5
VW-TEc-MA-FFK 507	Professional Competencies in a Foreign Language (CEFR C1/C2)	0/0/0/0/4/0/0 2xPL*8				5
VW-TEc-MA-FFK 508	Introduction to Professional and Academic Language: Working with Texts and Oral Communication (CEFR C1)	0/0/0/0/4/0/0 2xPL*8				5
VW-TEc-MA-FFK 509	Introduction to Professional and Academic Language: Written Communication and Application Training plus one Profile Course (CEFR C1)	0/0/0/0/4/0/0 2xPL*8				5
<i>Area of Additional General Qualification (max. 5 LP)</i>						
VW-TEc-MA-AQUAa	Additional General Qualifications for	X/X/X/X/X/X*7				5

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	Transportation Economists	PL by offer				
<i>Bereich Professional Practice</i>						
VW-TEc-MA-BP	Vocational Internship			0/0/0/0/0/0 PL 11 weeks PP		15
					Master thesis colloquium	27 3
CP		30	30	30	30	120

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*1 In the module group Specializations, two specializations out of five are to be chosen.

*2 Modules of the elective compulsory area of the module group Research Papers, one of which must be chosen depending on the chosen specialization according to § 26 paragraph 3 Examination Regulations.

*3 From the module group Supplements, modules amounting to 30 credit points must be selected from the listed elective modules. A maximum of 10 credit points can be selected from the area of Foreign Language Communication and a maximum of 5 credit points from the area of Additional General Qualification.

*4 The module cannot be taken if it has already been selected in the module group Specializations.

*5 The module takes place irregularly, at least once every three academic years according to the module description.

*6 The language module(s) is/are chosen according to the student's previous knowledge. Further language modules based on this can be taken in the following semesters (summer and winter semesters) accordingly (see Study Regulations Annex 1: Module Descriptions).

*7 At least 5 credits of the student's choice from the "Additional General Qualifications for Transportation Economists" course.

*8 The module lasts one to two semesters depending on the student's choice.

SWS	Semester hours per week	V	Lecture	Sk	Language Course
M	Mobility window pursuant to § 6 (1) sentence 3	Ü	Practical	Pj	Project
CP	Credit Points	T	Tutorial	L	Laboratory Training
PVL	Preliminary examination(s)	S	Seminar	BPT	Professional Practice
PL	Examination performance(s)				