Recomended pass through the study plan

Name of the pass: Master Full-Time LA from 2024/25

Faculty/Institute/Others:
Department:
Pass through the study plan: Master Full-Time LA from 2024/25
Branch of study guranteed by the department: Welcome page
Guarantor of the study branch:
Program of study: Logistics and Transport Processes Control
Type of study: Follow-up master full-time
Note on the pass:

Coding of roles of courses and groups of courses:
P - compulsory courses of the program, **PO** - compulsory courses of the branch, **Z** - compulsory courses, **S** - compulsory elective courses, **PV** - compulsory elective courses, **F** - elective specialized courses, **V** - elective courses, **T** - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):
KZ - graded assesment, **Z** - assesment, **ZK** - examination, **L** - summer semester, **Z** - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses *(in case of groups of courses the list of codes of their members)* *Tutors, authors and guarantors (gar.)*	Completion	Credits	Scope	Semester	Role
14GISS	**Geographical Information Systems** *Vít Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková* **Tomáš Janata** *Tomáš Janata (Gar.)*	KZ	2	0P+2C+8B	Z	Z
15J2A1	**Language - English 1** *Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerova*	Z	2	0P+2C+10B	Z	Z
11LIP2	**Linear Programming 2** *Pavla Pecherková, Ivan Nagy, Karel Je men* **Pavla Pecherková** *Ivan Nagy (Gar.)*	Z,ZK	3	2P+1C+10B	Z	Z
17LSC	**Logistics in Smart Cities** *Tomáš Horák Tomáš Horák (Gar.)*	Z,ZK	6	2P+2C+14B	Z	Z
17MADS	**Management of Transport Systems** *Roman Št rba Roman Št rba (Gar.)*	KZ	2	2P+0C+8B	Z	Z
17TSI	**Technology of Road Transport** *Michal Drábek, Vít Janoš, Rudolf Vávra, Daniel Drnec Michal Drábek (Gar.)*	KZ	2	2P+0C+8B	Z	ZP
17TZND	**Technology of Railway Transport** *Michal Drábek, Vít Janoš, Zden k Michl, Rudolf Vávra, Daniel Drnec Vít Janoš (Gar.)*	Z,ZK	4	2P+2C	Z	Z
11TER	**Game Theory and Optimal Decision-Making** *Magdalena Hykšová* **Magdalena Hykšová** *Magdalena Hykšová (Gar.)*	ZK	2	2P+0C+8B	Z	Z
15JCZ1	**Czech Language for Foreign Students 1** *Irena Veselková*	Z	0	0P+2C	Z	Z
17TZOR	**Inventory, Replacement and Scheduling Theory** *Dušan Teichmann Dušan Teichmann (Gar.)*	Z,ZK	3	2P+1C	Z	J
X2-NP-LA-20/21	**Projekty Mgr. prezen ní LA od 2020/21** *11XN1,12XN1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
JZ-NP-LA-20/21	**Jazyky Mgr. prezen ní LA od 2020/21** *15J2F1,15J2I1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

Number of semester: 2

Code	Name of the course / Name of the group of courses *(in case of groups of courses the list of codes of their members)* *Tutors, authors and guarantors (gar.)*	Completion	Credits	Scope	Semester	Role
14BIG	**Big Data** *Jana Kaliková, Jan Kr ál* **Jana Kaliková** *Jana Kaliková (Gar.)*	KZ	2	0P+2C+8B	L	Z

Code	Name of the course	Completion	Credits	Scope	Semester	Role
17DOCH	**Travel Behavior** *Vít Janoš, Milan K íž Vít Janoš (Gar.)*	KZ	3	3P+0C+10B	L	Z
15JBA2	**Language - English 2** *Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, ...*	Z	2	0P+2C+10B	L	Z
17MID	**Managerial Information Systems in Transport** *Václav Baroch Václav Baroch (Gar.)*	Z,ZK	3	2P+1C+10B	L	Z
17RKOP	**Management of commercial projects in transport** *Alexandra Dvo á ková, Petra Skolilová **Petra Skolilová** Petra Skolilová (Gar.)*	Z,ZK	3	2P+1C+10B	L	ZP
14TEL	**Telecommunications** *Tomáš Zelinka, Radek Holý, Zden k Lokaj, Martin Šrotý **Tomáš Zelinka** Tomáš Zelinka (Gar.)*	KZ	3	2P+1C+10B	L	Z
11THRO	**Queuing Theory** *Šárka Vorá ová **Šárka Vorá ová** Šárka Vorá ová (Gar.)*	ZK	2	2P+0C+8B	L	Z
15JCZ2	**Czech Language for Foreign Students 2** *Irena Veselková*	Z	0	0P+2C	L	Z
17KMD	**Quantitative Methods in Transport**	Z,ZK	6	2P+2C	L	J
X2-NP-LA-20/21	**Projekty Mgr. prezen ní LA od 2020/21** *11XN1,12XN1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
JZ-NP-LA-20/21	**Jazyky Mgr. prezen ní LA od 2020/21** *15J2F1,15J2I1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

Number of semester: 3

Code	Name of the course / Name of the group of courses *(in case of groups of courses the list of codes of their members)* Tutors, **authors** and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JCZ3	**Czech Language for Foreign Students 3** *Irena Veselková*	Z		0P+2C	Z	ZP
17AMAN	**Application of Marketing Tools in Transport Industry** *Petra Skolilová Petra Skolilová (Gar.)*	KZ	3	2P+0C	Z	J
17DOPM	**Transportation Planning and Modeling** *Milan K íž*	Z,ZK	6	2P+2C	Z	PV
15JBA3	**Language - English 3** *Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, ...*	Z	2	0P+2C+10B	Z	V
17PPC	**Carriage Processes** *Roman Št rba Roman Št rba (Gar.)*	ZK	3	2P+0C	Z	
17RVIP	**Public Project Management in Transport** *Alexandra Dvo á ková, Olga Mertlová, Daniel Pilát Olga Mertlová (Gar.)*	Z,ZK	5	2P+2C+14B	Z	
11STS	**Stochastic Systems** *Pavla Pecherková, Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki **Pavla Pecherková** Šárka Vorá ová (Gar.)*	Z,ZK	4	2P+2C+14B	Z	
X2-NP-LA-20/21	**Projekty Mgr. prezen ní LA od 2020/21** *11XN1,12XN1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
JZ-NP-LA-20/21	**Jazyky Mgr. prezen ní LA od 2020/21** *15J2F1,15J2I1,..... (see the list of groups below)*	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

Number of semester: 4

Code	Name of the course / Name of the group of courses *(in case of groups of courses the list of codes of their members)* Tutors, **authors** and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JCZ4	**Czech Language for Foreign Students 4** *Irena Veselková*	Z		0P+2C	L	Z
15JBA4	**Language - English 4** *Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, ...*	ZK	2	0P+2C+10B	L	ZP

X2-NP-LA-20/21	**Projekty Mgr. prezen ní LA od 2020/21** *11XN1,12XN1,..... (see the list of groups below)*	Min. cours. 4	Min/Max 13/13			ZP
		Max. cours. 4				
JZ-NP-LA-20/21	**Jazyky Mgr. prezen ní LA od 2020/21** *15J2F1,15J2I1,..... (see the list of groups below)*	Min. cours. 4	Min/Max 8/8			J
		Max. cours. 4				

List of groups of courses of this pass with the complete content of members of individual groups

Kód	Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)	Completion	Credits	Scope	Semester	Role
JZ-NP-LA-20/21	**Jazyky Mgr. prezen ní LA od 2020/21**	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

15J2F1	Language - French 1	15J2I1	Language - Italian 1	15J2N1		Language - German 1
15J2R1	Language - Russian 1	15J2S1	Language - Spanish 1	15JBF2		Language - French 2
15JBI2	Language - Italian 2	15JBN2	Language - German 2	15JBR2		Language - Russian 2
15JBS2	Language - Spanish 2	15JBF3	Language - French 3	15JBI3		Language - Italian 3
15JBN3	Language - German 3	15JBR3	Language - Russian 3	15JBS3		Language - Spanish 3
15JBF4	Language - French 4	15JBI4	Language - Italian 4	15JBN4		Language - German 4
15JBR4	Language - Russian 4	15JBS4	Language - Spanish 4			

X2-NP-LA-20/21	**Projekty Mgr. prezen ní LA od 2020/21**	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP

11XN1	Master Project 1	12XN1	Master Project 1	14XN1		Master Project 1
15XN1	Master Project 1	16XN1	Master Project 1	17XN1		Master Project 1
18XN1	Master Project 1	20XN1	Master Project 1	21XN1		Master Project 1
22XN1	Master Project 1	23XN1	Master Project 1	11XN2		Master Project 2
12XN2	Master Project 2	14XN2	Master Project 2	15XN2		Master Project 2
16XN2	Master Project 2	17XN2	Master Project 2	18XN2		Master Project 2
20XN2	Master Project 2	21XN2	Master Project 2	22XN2		Master Project 2
23XN2	Master Project 2	11XN3	Master Project 3	12XN3		Master Project 3
14XN3	Master Project 3	15XN3	Master Project 3	16XN3		Master Project 3
17XN3	Master Project 3	18XN3	Master Project 3	20XN3		Master Project 3
21XN3	Master Project 3	22XN3	Master Project 3	23XN3		Master Project 3
11XN4	Master Project 4	12XN4	Master Project 4	14XN4		Master Project 4
15XN4	Master Project 4	16XN4	Master Project 4	17XN4		Master Project 4
18XN4	Master Project 4	20XN4	Master Project 4	21XN4		Master Project 4
22XN4	Master Project 4	23XN4	Master Project 4			

List of courses of this pass:

Code	Name of the course	Completion	Credits
11LIP2	Linear Programming 2	Z,ZK	3
Formulation of the task of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, location of stores and post boxes, tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.			
11STS	Stochastic Systems	Z,ZK	4
The subject deals with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. The results are illustrated on practical transportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian probabilistic approach.			
11TER	Game Theory and Optimal Decision-Making	ZK	2
Decision-making theory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games, evolutionary game theory. Cooperative games without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applications of game theory above all in economics and transportation.			

Code	Name		Credits
11THRO	Queuing Theory	ZK	2
Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, model M/M/1, models M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simulation.			
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
14BIG	Big Data	KZ	2
Principle of MapReduce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Database. Column Databases. Document Databases. Graph Databases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Management. NewSQL Database. Cloud computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.			
14GISS	Geographical Information Systems	KZ	2
Construction of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of territorial identification			
14TEL	Telecommunications	KZ	3
Status quo and new trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunications services provisioning, identification and quantification of hlererchical telecommunications networks and telecommunication services performance based on addopted performance parameters, telecommunication services typically applied within transport and specifically logistic solutions.			
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
14XN4	Master Project 4	Z	8
15J2A1	Language - English 1	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.			
15J2F1	Language - French 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2I1	Language - Italian 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2N1	Language - German 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2R1	Language - Russian 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2S1	Language - Spanish 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBA2	Language - English 2	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.			
15JBA3	Language - English 3	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Optional courses for certificates FCE, CAE.			
15JBA4	Language - English 4	ZK	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Optional courses for certificates FCE, CAE.			
15JBF2	Language - French 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBF3	Language - French 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBF4	Language - French 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			

Code	Name		Exam	Credits
15JBI2	Language - Italian 2		Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.				
15JBI3	Language - Italian 3		Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBI4	Language - Italian 4		ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBN2	Language - German 2		Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.				
15JBN3	Language - German 3		Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBN4	Language - German 4		ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBR2	Language - Russian 2		Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.				
15JBR3	Language - Russian 3		Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBR4	Language - Russian 4		ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBS2	Language - Spanish 2		Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.				
15JBS3	Language - Spanish 3		Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JBS4	Language - Spanish 4		ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.				
15JCZ1	Czech Language for Foreign Students 1		Z	0
Basic structures of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czech language, writing skills.				
15JCZ2	Czech Language for Foreign Students 2		Z	0
Basic structures of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czech language, writing skills.				
15JCZ3	Czech Language for Foreign Students 3		Z	
Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.				
15JCZ4	Czech Language for Foreign Students 4		Z	
Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.				
15XN1	Master Project 1		Z	2
15XN2	Master Project 2		Z	2
15XN3	Master Project 3		Z	1
15XN4	Master Project 4		Z	8
16XN1	Master Project 1		Z	2
16XN2	Master Project 2		Z	2
16XN3	Master Project 3		Z	1
16XN4	Master Project 4		Z	8
17AMAN	Application of Marketing Tools in Transport Industry		KZ	3
Strategic marketing plans. Implementation of marketing campaigns. Branding and brand promotion. Multimedia presentations. Direct marketing and related lead generation campaigns.				
17DOCH	Travel Behavior		KZ	3
Investigation of causal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement; design of research instrument and data collection). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practical vs. statistical significance). Analysis and interpr. of data (surveys, choice exp., panel. data).				

17DOPM	Transportation Planning and Modeling	Z,ZK	6
Basic steps and tools used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban areas, land use. New trends for transportation planning and modelling.			
17KMD	Quantitative Methods in Transport	Z,ZK	6
The course focuses on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location problems are formulated and solved such as models of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristics (metaheuristics) methods.			
17LSC	Logistics in Smart Cities	Z,ZK	6
Development of cities in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a system and its components, quality of life, individual quality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new approaches in last mile logistics, last mile logisitcs in cities and in regions.			
17MADS	Management of Transport Systems	KZ	2
Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft skills.			
17MID	Managerial Information Systems in Transport	Z,ZK	3
IT and their use in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in front of new challenges. The course focuses on the security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through the timetable and the financial budget, the basic documents for the possible assignment of the contract.			
17PPC	Carriage Processes	ZK	3
Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.			
17RKOP	Management of commercial projects in transport	Z,ZK	3
Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization procedure), organizational structure of the project , sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value analysis, management of project changes.			
17RVIP	Public Project Management in Transport	Z,ZK	5
Basic concepts of project management in the public sector, used procedures and standards of project management, organizational structure in project management in the public sector, project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation.			
17TSI	Technology of Road Transport	KZ	2
Legislative, operational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agreements, requirements on the parameters and specialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road transport and choice of optimal transport unit.			
17TZND	Technology of Railway Transport	Z,ZK	4
Track line capacity assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs for designing of fleeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, system concept of freight train paths, guidelines for centralised operational traffic control and management.			
17TZOR	Inventory, Replacement and Scheduling Theory	Z,ZK	3
Inventory theory - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for replacement of items that deteriorate with time, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel machine scheduling problems, flow shop scheduling problems and job shop scheduling problems.			
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN4	Master Project 4	Z	8
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
20XN4	Master Project 4	Z	8
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
21XN4	Master Project 4	Z	8
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3	Master Project 3	Z	1
22XN4	Master Project 4	Z	8
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3	Master Project 3	Z	1
23XN4	Master Project 4	Z	8

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