## Recomended pass through the study plan

## Name of the pass: Bachelor Part-Time TET-LOG from 2025/26

Faculty/Institute/Others: Department: Pass through the study plan: Bachelor TET-LOG Part-Time from 2024/25 Branch of study guranteed by the department: Welcome page Guarantor of the study branch: Program of study: Technology in Transportation and Telecommunications Type of study: Bachelor combined Note on the pass: zahájení studia 2025/26

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 s	emester: 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
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala Vít Fábera Vít Fábera (Gar.)	КZ	3	0P+2C+8B	Z	Z
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil <b>Bohumil Ková</b> Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	КZ	3	2P+2C+12E	Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	z	Z
18MTY	Materials Science and Engineering Jaromír Kylar, Veronika Drechslerová, Jaromír Kylar, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Veronika Drechslerová, Jaromír Kylar Jaroslav Valach Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
18TKK	Technical Drawing and Designing Jitka ezní ková, Vít Malinovský, Jan Šleichrt, Martin Brumovský, Jan Mejst ík, Drahomír Schmidt, Lukáš Svoboda, Jan Vogl, Ji í Zeisek, Jan Šleichrt Jan Šleichrt (Gar.)	KZ	4	2P+2C+16B	Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8B	Z	Z
12ZADK	Introduction to Transportation Engineering Dagmar Ko árková, Jana Štikarová	Z,ZK	5	12B	Z	Z

Number of seme	ster: 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
11CAL2	Calculus 2 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
14PRG	Programming Alena Kubá ová, Jan Procházka, Martin Fiala, Lukáš Svoboda, Jana Kaliková, Jan Kr ál <b>Jana Kaliková</b> Jana Kaliková (Gar.)	KZ	2	0P+2C+8B	L	Z
18SAT	Structural Analysis Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Jan Šleichrt, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Falta Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14B	L	Z
11STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová <b>Pavla Pecherková</b> Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
20SYSA	Systems Analysis Zuzana B linová, Ji í R ži ka, Patrik Horaž ovský, Petr Bureš Zuzana B linová (Gar.)	Z,ZK	5	2P+2C+14B	L	Z

17TEDK	Transport Technology and Logistics Michal Drábek Michal Drábek (Gar.)	KZ	4	12B	L	Z
21ZALD	Basics of Air Transport Jakub Hospodka, Tomáš Tlu ho, Ji í Volt, Peter Olexa, Jan Slezá ek, Jakub Trýb, Sébastien Lán, Bo Stloukal	KZ	2	0P+2C+8B	L	Z
12ZTS	Railway Lines and Stations Lukáš Týfa, Martin Jacura, Petr Šatra, Tomáš Javo ík, Ond ej Trešl Lukáš Týfa (Gar.)	Z,ZK	4	2P+2C+10B	L	Z

Number of sen	nester: 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
15JZ1A	Foreign Language - English 1 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Torne ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová,	Z	3	0P+4C+10B	Z	Z
14DATS	Database Systems Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	ΚZ	2	1P+1C+10B	Z	Z
11FYZ	Physics Old ich Hykš, Jana Kuklová, Pavel Demo, Zuzana Malá, Tomáš Vít <b>Jana</b> Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	z	Z
12MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek	Z,ZK	3	2P+1C+8B	Z	Z
12PPOK	Designing Roads, Highways and Motorways Josef Kocourek, Tomáš Pad lek, Polina Zayats, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10B	Z	Z
18PZP	Elasticity and Strength Jitka ezní ková, Jan Šleichrt, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Josef Jíra, Ond ej Jiroušek <b>Ond ej Jiroušek</b> Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11TGA	Graph Theory and its Applications in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
20UITS	Introduction to Intelligent Transport Systems Ji í R ži ka, Patrik Horaž ovský, Kristýna Navrátilová, Viktor Beneš, Eva Haj iarová, Martin Langr, Vladimír Faltus, Pavel Hrubeš Martin Langr	Z,ZK	7	3P+2C+20B	z	Z

Number of seme	ster: 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
15JZ2A	Foreign Language - English 2 Markéta Vojanová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová, 	Z,ZK	3	0P+4C+10B	L	Ρ
16DPO	Vehicle Technology Josef Mík, Josef Svoboda, P emysl Toman Josef Mík (Gar.)	KZ	2	2P+0C+10B	L	Р
17ESYS	Transport Systems Economy Rudolf Franz Heidu, Roman Št rba Rudolf Franz Heidu (Gar.)	Z,ZK	6	3P+2C+18B	L	Ρ
11LP	Linear Programming Šárka Vorá ová, Pavla Pecherková, Ivan Nagy <b>Pavla Pecherková</b> Ivan Nagy (Gar.)	КZ	3	2P+1C+12B	6 L	Ρ
17LGT	Logistics Tomáš Horák, Eliška Glaserová Tomáš Horák (Gar.)	Z,ZK	6	3P+2C+18B	L	Ρ
11MDP	Transport Prognostic Methods Alena Rybi ková Alena Rybi ková Denisa Mocková (Gar.)	KZ	2	2P+0C+10B	s L	Ρ
11MSP	Modeling of Systems and Processes Bohumil Ková , Lucie Kárná Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	s L	Ρ
W1-BK-LOG-25/26	<b>PVP-B Bc. kombinovaná TET-LOG od 2025/26</b> 15W1B0,17W1EV, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 12/12			PV

Number of semes	ster: 5					
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
14DMG	Datamining Radek Holý <b>Radek Holý</b> Radek Holý (Gar.)	KZ	2	0P+2C+10B	Z	J

		T		· · · · · · · · · · · · · · · · · · ·		
17EPOD	Economics of Transport Company Alexandra Dvo á ková, Václav Baroch Alexandra Dvo á ková (Gar.)	Z,ZK	6	4P+2C+18B	Z	Р
17MAGD	Marketing in Transport Petra Skolilová Petra Skolilová (Gar.)	КZ	4	2P+1C+12B	Z	Р
17TVD	<b>Technology of Public Transport</b> Stanislav Metelka, Vít Janoš, Ji í Pospíšil, Zden k Michl Vít Janoš (Gar.)	Z,ZK	5	2P+2C+18B	Z	Р
17ZAP	Fundamentals od law Martina D v rová Martina D v rová (Gar.)	Z	2	2P+0C+10B	Z	Р
12ZPV	Railway Operation Martin Jacura, Jan Kruntorád	Z,ZK	4	2P+1C+12B	Z	Р
	<b>Bc. TET (mimo LED) druhý jazyk od 2022/23</b> 15JZ3F,15JZ3I, (see the list of groups below)	Min. cours.				
		2	Min/Max			J
JZ-BP-TET-22/23		Max. cours.	6/6			
		2				
		Min. cours.				
	PVP-B Bc. kombinovaná TET-LOG od 2025/26	3	Min/Max			1
W1-BK-LOG-25/26	15W1BO, 17W1EV, (see the list of groups below)	Max. cours.	12/12			PV
		3				

Number of seme						
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
17FID	Financing and Investment in Transport Alexandra Dvo á ková, Olga Mertlová Olga Mertlová (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
17GEDS	Geography of Transport Systems Miroslav Marada Miroslav Marada (Gar.)	KZ	2	2P+0C+8B	L	J
17IVED	Integration of Public Transport Roman Št rba Roman Št rba (Gar.)	Z,ZK	3	2P+1C+10B	L	Р
17KLID	Quality in Transport Service Pavel Edvard Van ura Pavel Edvard Van ura (Gar.)	Z,ZK	3	2P+1C+10B	L	Р
17MRRK	Managerial Decision-making and Management Alexandra Dvo á ková Alexandra Dvo á ková (Gar.)	Z,ZK	3	10B	L	Р
14MPG	Modern Programming Approaches Michal Je ábek, Vít Fábera Michal Je ábek Vít Fábera (Gar.)	KZ	2	0P+2C+8B	L	Р
17NAPR	Freight Traffic Roman Št rba Roman Št rba (Gar.)	Z	2	2P+0C+8B	L	Р
12ZAR	Introduction to Architectural Design Karel Hájek	Z	3	2P+0C+8B	L	Ρ
XB-BK-LOG-26-27	BP seminá Bc. TET-LOG kombinovaný od 2026/27	Min. cours. 1 Max. cours. 1	Min/Max 1/1			Z
JZ-BP-TET-22/23	Bc. TET (mimo LED) druhý jazyk od 2022/23 15JZ3F,15JZ3I, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 6/6			J
W1-BK-LOG-25/26	<b>PVP-B Bc. kombinovaná TET-LOG od 2025/26</b> 15W1BO, 17W1EV, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 12/12			PV

## 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-BP-TET-22/23	Bc. TET (mimo LED) druhý jazyk od 2022/23	Min. cours. 2 Max. cours.	Min/Max 6/6			J
		2				

15JZ3F	Foreign La	nguage - French 3	15JZ3I	Foreign Language - Italian 3		15JZ3N		Foreign Lang	uage - Germar	n 3
15JZ3R	Foreign La	nguage - Russian 3	15JZ3S	Foreign Language - Spanish 3		15JZ4F		Foreign Lang	uage - French	4
15JZ4I	Foreign La	nguage - Italian 4	15JZ4N	Foreign Language - German 4		15JZ4R		Foreign Language - Russian 4		n 4
15JZ4S	Foreign La	nguage - Spanish 4								
					Min.	. cours.				
						3	Min/M	ax		
W1-BK-LC	DG-25/26	PVP-B Bc. ko	mbinovaná	TET-LOG od 2025/26	Max	. cours.				PV
						3				
15W1BO	Work Safet	ty and Health Protectio	17W1EV	Public Sector Economy		14W1HV	v	Computer Ha	rdware	
15W1HE	Work Hygi	ene and Ergonomics in T	17W1LL	Logistics of Passenger and Freig .		17W1OF		Personal Fina	nce	
17W1PM	Personal N	lanagement	14W1PZ	Advanced Data Processing in Spre	э	14W1PJ		C Programmi	ng Language	
16W1PV	Operation,	Construction and Main	17W1ST	Titan Simulation		17W1SL		Sociology of I	Human Resour	ces
17W1SK	Urban and	Regional Rail Transpor	14W1UP	Editing of Theses in MS Word						
				· ·	Min.	cours.				
						1	Min/M	ax		
XB-BK-LC	)G-26-27	BP seminá Bc.	TET-LOG ko	ombinovaný od 2026/27		•		~~		z
				-	Max	. cours.	1/1			
						1				

## List of courses of this pass:

Code	Name of the course Comp	oletion	Credits
11CAL1	Calculus 1 Z	ZK	7
Sequence of real	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riemann integral. First-order differential equations, linear differential equations.	ann integi	al, imprope
11CAL2	Calculus 2 Z	ZK	5
Line	ar differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in	ntegrals.	
11FYZ	Physics Z,	ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current		
11GIE	Geometry	٢Z	3
Differential geom	netry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the mot acceleration of a particle moving on a curved path.	ion, the v	elocity, and
11LA	Linear Algebra Z,	ZK	3
Vector spaces (lir	near combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvabil their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.	lity. Deter	minants and
11LP	Linear Programming	٢Z	3
Formulation of the	e problem of linear programming, transcription of some practical problems to the linear programming problems. Simplex and convex polyedra. S	implex m	ethod, basi
	solutions, duality principle in linear programming, stability of solution of linear programming problem. Traffic problem.		_
11MDP		٢Z	2
The techniques o	f economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical values u indices.	using diffe	erencies and
11MSP	Modeling of Systems and Processes Z,	ZK	4
	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stabili Discretization of continuous systems. System interconnection.		•
11STAT	Statistics Z	ZK	4
Basics of probal	bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Regression and correlation analysis	Nonparar	netric tests
11TGA	Graph Theory and its Applications in Transport Z.	ZK	4
Basic terms	of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in other scie		iplines.
12MDE		ZK	3
Parameters of the	traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of queues, sh	ock wave	s. Quality of
transport and its	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences. In safety and fluency.	proving o	of transport
12PPOK	Designing Roads, Highways and Motorways	٢Z	3
Definition, types	, ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard speed. I	Route in r	ural areas.
Range of vision fo	or stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety device. intersections.	Crossing	s, junctions
12ZADK	Introduction to Transportation Engineering Z	ZK	5
12ZAR	Introduction to Architectural Design	Z	3
Urbanism ar	nd architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transport. Railwa communications. International airports.	y stations	s. Local

12ZPV			
	Railway Operation	Z,ZK	4
Legislation in rail	way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traff	ic operation. Railwa	ay vehicles
	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.		
12ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. R	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	Spatial layout of rai	way lines.
	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail	ransport.	
14ASD	Algorithm and Data Structures	KZ	3
Students will analy	ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algorithm using	rithms written using	flowcharts,
and use basic Boo	lean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - v	ariable, branching	, loops, they
	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra	ams.	
14DATS	Database Systems	KZ	2
Basic concepts	of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security ar		database
	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	the WWW.	
14DMG	Datamining	KZ	2
	rces and knowledge, data warehouses and OLAP technology for data mining, data preprocessing in the process of knowledge acquis		
mining characteris	stics of concepts (classes), mining association rules from relational db. and data warehousing, classification (decisions tree, Bayesiar	o cob., using neura	networks).
	Prediction. Cluster analysis. Mining in complex structured data, multimedia dbf., www.		
14MPG	Modern Programming Approaches	KZ	2
	minded of some aspects of Pythom programming, learn basic concepts and constructs from object-oriented programming and their in	•	
	try out the basics of working with data libraries in Python, namely NumPy, Pandas, Matplotlib, and practice with examples of smaller a	-	
14PRG	Programming	KZ	2
	gramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program	0 0 0	
here so that the pa	articipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searc	ching, tuples, sets,	dictionaries,
	working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		
14W1HW	Computer Hardware	KZ	4
Computer archit	ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate	parts designing - c	ontrollers,
4.00/4.51	arithmetic and logical units, I/O subsystem.	1/7	
14W1PJ	C Programming Language	KZ	4
C programming lar	nguage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, stri Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise of	-	and unions.
14W1PZ	Advanced Data Processing in Spreadsheets	KZ	4
	familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of numbers,	1	-
	letection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, s		-
,	data analysis. Examples and questions from various companies and training.		,
14W1UP	Editing of Theses in MS Word	KZ	4
-			4
Students will be	introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creating and editing large documents and basic typographic rules.		4 Its, lists of
	introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creating here, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless etc.	ite tables of conter	its, lists of
		ite tables of conter	its, lists of
	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ec	ite tables of conter	its, lists of
figures, tables, gra 15JZ1A	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless en so that they are able to concentrate mainly on writing a thesis.	diting dissertations	and theses,
figures, tables, gra 15JZ1A	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless en so that they are able to concentrate mainly on writing a thesis. Foreign Language - English 1	te tables of conter diting dissertations Z mmunicative skills	and theses,
figures, tables, gra 15JZ1A Grammatical Struc 15JZ2A	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ere so that they are able to concentrate mainly on writing a thesis.         Foreign Language - English 1         tures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles         Foreign Language - English 2	te tables of conter diting dissertations Z mmunicative skills of rhetoric. Z,ZK	ts, lists of and theses, 3 Elementary 3
figures, tables, gra 15JZ1A Grammatical Struc 15JZ2A	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ere so that they are able to concentrate mainly on writing a thesis. Foreign Language - English 1 tures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions for seamless for seamless for seamless erections of styles. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions for seamless for seamless for seamless erections of styles. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constructions conversations conver	ite tables of conter diting dissertations Z mmunicative skills of rhetoric. Z,ZK mmunicative skills.	ts, lists of and theses, 3 Elementary 3
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ISW1HE 15W1HE Basic knowledge of occ reation and protection c 16DPO ehicle. Functions, princ	Work Safety and Health Protection           zení pojm, rizika a možná poškození zdraví, pracovní podmínky a ochrana zdraví zejména v doprav. Programy na ochranu z služebních cestách doma i v zahrani í, statistika, praxe.           Work Hygiene and Ergonomics in Traffic           upational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these fa working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to post		4
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eation and protection of 16DPO shicle. Functions, princ	pational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these fa working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to pos	KZ	4
16DPO		actors on health o	of workers
whicle. Functions, princ		ssibilities and skil	ls of a m
hicle. Functions, princ	Practical examples from the field of transportation; relevant legislature.		
	Vehicle Technology	KZ	2
Tra	oles. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de	sign. Drive. Elect	ric tractio
110	ashipment. Technological components of various modes of transport. Management and control of various means of transport.	Safety.	
16UDOP	Introduction into Vehicles	Z	2
hicles and transportati	n systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water	transport. Alterna	ative mea
	of transport. Lifting equipment and conveyors. Legislation.		
16W1PV	Operation, Construction and Maintenance of Vehicles	KZ	4
ethods of vehicle produ	ction. Vehicle maintenance. Vehicle diagnostics. Maintenance and repair plans. Engine maintenance and emission measurement	nt. Transmission r	nechanis
	General principles of engine diagnostics.		
17EPOD	Economics of Transport Company	Z,ZK	6
conomy, marginal utility	marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Tran	sportation marke	t, transp
	company, it's environment, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transpo	ort.	
17ESYS	Transport Systems Economy	Z,ZK	6
acroeconomics, macroe	conomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its	quantification, ra	tionaliza
	of transport system.		
17FID	Financing and Investment in Transport	Z,ZK	4
urces of financing of tr	nsport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment	project project cy	cle, subs
progra	as and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and	programs.	
17GEDS	Geography of Transport Systems	KZ	2
Regional differentiation	of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop	ment. Spatial inte	eraction -
eoretical and methodolo	jical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical	use of transport-ç	jeograph
	analysis in transportation planning.		
17IVED	Integration of Public Transport	Z,ZK	3
Insport policy of both E	J and CR, transport sectoral strategies, land use planning and evolution of space organization, integration of public service in t	erritory, forms an	d conten
ctivities and organization	nal structures of integrated public transport systems, internal and external bindings, contracting, carriage relations, conditions c	of both rail and bu	is transp
	operations, grading and quality, IS, marketing.		
17KLID	Quality in Transport Service	Z,ZK	3
eneral interpretation of	quality, standards and international standardization, integrated management systems, modern attitudes of quality managemen	t, quality in transp	ort servi
d logistics, methods of	pality measurement, quality management, risks and opportunities, public transport quality, view of costumers, carriers and PT-	organizers, quality	y standa
	quality costs, marketing and costumer satisfaction.		
17LGT	Logistics	Z,ZK	6
gistics definition, basic	concepts, store, warehouse, transport and handling equipment, logistics technology, logistics centers, information and intellige	nt logistics system	ns, logis
	city.		
17MAGD	Marketing in Transport	KZ	4
	marketing plans. Implementation of marketing campaigns. Branding and brand promotion. Public relations industry, business a	and vertical marke	et. Websi
velopment, search en	ine optimization. Government relations and industry organization lobbying. Advertising and strategic sponsorships. Multimedia	presentations and	d corpora
	videos. Direct marketing and related lead generation campaigns.		
17MRRK	Managerial Decision-making and Management	Z,ZK	3
	s; identifying exactly what the problem is; evaluating the issue; solving the issue; using multiple perspective analysis to make a	•	nethod c
1	thinking.		
1	Freight Traffic	Z	2
Decision-making proce		—	. –
· · · · ·	Freight traffic and transportation system, conditions of implementation, forwarding.	1/7	
Decision-making proce	Freight traffic and transportation system, conditions of implementation, forwarding.	K/	Δ
Decision-making proce	Transport Technology and Logistics	KZ	4 of traffic
Decision-making proce         17NAPR         17TEDK         sic terms in transport t	Transport Technology and Logistics	port, organisation	n of traffi
Decision-making proce	Transport Technology and Logistics	port, organisation	n of traffi

17W1EV	Public Sector Economy	KZ	4			
Economic and final	conomic and financial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public projects (CBA, MCA, CEA),					
tax system of the CR, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from EU funds, program HDM-4.						
17W1LL	Logistics of Passenger and Freight Air Transport	KZ	4			
Logistics airline pas	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial tran	sport process pass	sengers and			
air cargo. Information systems in air transport. Global distribution systems.						
17W1OF	Personal Finance	KZ	4			
Personal finance (	budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of hou	sing (rent, mortgag	e, savings,			
consumer loans, refinancing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and adequacy), securing the future						
(retirement savings and insurance).						
17W1PM	Personal Management	KZ	4			
Human sour	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, inter	cultural communic	ation.			
17W1SK	Urban and Regional Rail Transport Systems	KZ	4			
Factors affecting	transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, li	ne networking. Cre	ating and			
evaluation of the timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport preferences. The role of						
	marketing.					
17W1SL	Sociology of Human Resources	KZ	4			
Human resources a	nd their importance, work group as a special kind of social group, communication, personal management, modern management, hun	an resources plan	ning, culture			
of the organization.						
17W1ST	Titan Simulation	KZ	4			
Titan is a manaç	pement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce	ict. Students set a p	price and			
determine the quantity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of their decisions by the form						
of financial corporate reports and they use this information for other business decisions.						
17ZAP	Fundamentals od law	Z	2			
18MTY	Materials Science and Engineering	Z,ZK	3			
Basic course of materials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure. However the main attention						
is paid to metals as the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and composites. Attention is also paid						
	to degradation processes in materials, to defectoscopy and to main mechanical tests.					
18PZP	Elasticity and Strength	Z,ZK	3			
Tension and compression. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted and welded joints of structures.						
Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.						
18SAT	Structural Analysis	Z,ZK	4			
General system of	of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinat	e beams and simp	le girders.			
Principle of virtual work. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Cross-sectional characteristics						
	of planar shapes. Fiber polygons and chains.					
18TKK	Technical Drawing and Designing	KZ	4			
20SYSA	Systems Analysis	Z,ZK	5			
Introduction to syst	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks	, processes, syster	m behaviour			
and its analysis, strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tables, algorithms for structural						
	tasks. Soft and hard systems, methods for soft system analysis.		_			
20UITS	Introduction to Intelligent Transport Systems	Z,ZK	7			
	pislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of infor					
systems for ITS. Principles and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples of possible applications of the						
	principles of ITS.					
21ZALD	Basics of Air Transport	KZ	2			
-	terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation.					
Flight planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground handling, security. Air crew.						
Airlines and economics. Space technologies.						

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