Study plan

Name of study plan: Bachelor TET-LOG Part-Time from 2022/23

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Technology in Transportation and Telecommunications Type of study: Bachelor combined Required credits: 180 Elective courses credits: 0 Sum of credits in the plan: 180 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 162 The role of the block: Z

Code of the group: 1S-BK-TET-22/23-DC Name of the group: 1st Sem. Bachelor Part-Time TET from 2022/23 Requirement credits in the group: In this group you have to gain 30 credits Requirement courses in the group: In this group you have to complete 10 courses Credits in the group: 30 Note on the group:

	group:					
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
611CAL1	Calculus 1 Romana Zibnerová Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	Z	Z
611LA	Linear Algebra Romana Zibnerová Romana Zibnerová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
612ZYDK	Introduction to Transportation Engineering	Z,ZK	3	6B	Z	Z
618MTY	Materials Science and Engineering Vít Malinovský Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
611GIE	Geometry Vít Malinovský Šárka Vorá ová (Gar.)	KZ	3	2P+2C+12E	Z	Z
614ASD	Algorithm and Data Structures Jan Mejst ík	KZ	3	0P+2C+8E	Z	Z
614KSP	Constructing with Computer Aid	KZ	2	0P+2C+8E	Z	Z
618TED	Technical Documentation Vít Malinovský Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	Z	Z
615DPLG	Transportation Psychology	Z	2	2P+0C+6E	Z	Z
616UDOP	Introduction into Vehicles Zuzana Radová Petr Bouchner (Gar.)	Z	2	2P+0C+8E	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S-BK-TET-22/23-DC Name=1st Sem. Bachelor Part-Time TET from 2022/23

611CAL1	Calculus 1	Z,ZK	7				
Sequence of real number	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, improper						
Riemann integral. First-	Riemann integral. First-order differential equations, linear differential equations.						
611LA	Linear Algebra	Z,ZK	3				
Vector spaces (linear co	Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. Determinants and						
their applications. Scala	r product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.						
612ZYDK	Introduction to Transportation Engineering	Z,ZK	3				
Role of transportation in	land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of road	ls, public mass tra	insport. Negative				
impacts of transportatio	n to environment and safety.						
618MTY	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 processe	degradation processes in materials, to defectoscopy and to main mechanical tests.						

611GIE	Geometry	KZ	3			
Orthographic and obliqu	e projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - para	ameterization, arc	of the curve,			
torsion and curvature, F	orsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving on a curved path.					
614ASD	Algorithm and Data Structures	KZ	3			
Students will be familiar	Students will be familiarized with selected basic and derived data structures, algorithms, their properties and their design procedure. Students will analyze problems, propose theoretical					
solutions to the set task	and the resulting algorithm write by means of flowcharts, practice in reading algorithms recorded by means of the flowchart	and use the basi	cs of Boolean			
algebra with forming the	e conditions for the algorithms.					
614KSP	Constructing with Computer Aid	KZ	2			
"CAD systems" term de	termination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common	, work rules in grap	hic applications			
and CA systems. Co-or	dinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting poss	ibilites, AutoCAD	environment			
profiles, drawings with r	aster foundaments).					
618TED	Technical Documentation	KZ	2			
Technical standards, int	ernational standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimension	al and geometric	al accuracy,			
arrangement of drawing	sheets.					
615DPLG	Transportation Psychology	Z	2			
Subject of psychology a	nd its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle of	, onstruction. Psych	nological aspects			
of travel route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in transport operation.						
616UDOP	Introduction into Vehicles	Z	2			
Vehicles and transporta	Vehicles and transportation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water transport. Alternative means					
of transport. Lifting equi	pment and conveyors. Legislation.					

Code of the group: 2S-BK-TET-22/23-DC Name of the group: 2nd Sem. Bachelor Part-Time TET from 2022/23 Requirement credits in the group: In this group you have to gain 30 credits Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 30 Note on the group:

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
611CAL2	Calculus 2 Romana Zibnerová, Ond ej Navrátil, Magdalena Hykšová, Olga Vraštilová, Tomáš T asák Romana Zibnerová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
611STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki Pavla Pecherková Pavel Provinský (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
612ZTS	Railway Lines and Stations Tomáš Javo ík, Ond ej Trešl	Z,ZK	4	2P+2C+10B	L	Z
618SAT	Structural Analysis Tomáš Doktor Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14B	L	Z
620SYSA	Systems Analysis Petr Bureš, Eva Haj iarová, Ji í R ži ka Zuzana B linová (Gar.)	Z,ZK	5	2P+2C+14B	L	Z
614PRG	Programming Libor Žídek	KZ	2	0P+2C+8B	L	Z
617TEDK	Transport Technology and Logistics	KZ	4	12B	L	Z
621ZALD	Basics of Air Transport Jakub Hospodka	KZ	2	0P+2C+8E	L	Z

Characteristics of the courses of this group of Study Plan: Code=2S-BK-TET-22/23-DC Name=2nd Sem. Bachelor Part-Time TET from 2022/23

LULLILJ								
611CAL2	Calculus 2	Z,ZK	5					
Linear differential equat	ions and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface int	egrals.						
611STAT	Statistics	Z,ZK	4					
Definition of probability,	random variable and its description, known distributions, random vector, function of random variable. Methods of point estimatio	n. Testing of statis	stical hypothesis.					
Regression and correlation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear regression, analysis of variance,								
multiple regression, the	use of matrices in regression.							
612ZTS	Railway Lines and Stations	Z,ZK	4					
Rail transport. Railway t	rack geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure.	Spatial layout of r	railway lines.					
Railway control systems	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail transport.							
618SAT	Structural Analysis	Z,ZK	4					
General system of force	s in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determina	te beams and sin	nple girders.					
Principle of virtual work.	Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss construction	ns. Cross-section	al characteristics					
of planar shapes. Fiber	polygons and chains.							
620SYSA	Systems Analysis	Z,ZK	5					
Introduction to system s	ciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tas	sks, processes, s	ystem behaviour					
and its analysis, strong	functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision ta	bles, algorithms	for structural					
tasks. Soft and hard sys	stems, methods for soft system analysis.							
614PRG	Programming	ΚZ	2					
Algorithm development,	Algorithm development, methods of structured programming, high-level programming languages, basics of C programming languages (types, variables, conditions, cycles, arrays,							
functions), programming	inctions), programming techniques, complexity.							

617TEDK	Transport Technology and Logistics	KZ	4			
Basic terms in transport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight transport, organisation of traffic in						
each transport modus,	each transport modus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using various transport modus.					
621ZALD	Basics of Air Transport	KZ	2			
History, definitions, terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Weight, balance, performance						
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.						

Code of the group: 3S-BK-TET-23/24-DC Name of the group: 3rd Sem. Bachelor Part-Time TET from 2023/24 Requirement credits in the group: In this group you have to gain 30 credits Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 30

Note on the group:

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
611FYZ	Physics Goce Chadzitaskos Zuzana Malá (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
612MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek Josef Kocourek (Gar.)	Z,ZK	3	2P+1C+8B	Z	Z
617TGA	Graph Theory and its Applications in Transport	Z,ZK	4	2P+2C+12B	Z	Z
618PZP	Elasticity and Strength Tomáš Doktor Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
620UITS	Introduction to Intelligent Transport Systems Vladimír Faltus Pavel Hrubeš (Gar.)	Z,ZK	7	3P+2C+20B	Z	Z
612PPOK	Designing Roads, Highways and Motorways Josef Kocourek, Tomáš Pad lek, Petr Kumpošt	KZ	3	1P+2C+10B	Z	Z
614DATS	Database Systems Ond ej Smíšek Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	Z	Z
615JZ1A	Foreign Language - English 1 Jan Feit	Z	3	0P+4C+10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=3S-BK-TET-23/24-DC Name=3rd Sem. Bachelor Part-Time TET from 2023/24

611FYZ Physics		Z,ZK	5			
Kinematics, dynamics, Newton's laws, force fields,	mechanics of continuum, thermodynamics, introduction to electrostatics and electric current.					
612MDE Transport Models ar	d Transport Excesses	Z,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, shock w	vaves. Quality of			
transport and its assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences. Improving of transport						
safety and fluency.						
617TGA Graph Theory and it	s 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 oth	ner scientific disci	plines.			
618PZP Elasticity and Streng	,th	Z,ZK	3			
Tension and compression. Bending of beam. Shear	stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bo	lted and welded	oint of structure.			
Analysis of deflection curve of beam. Torsion of circ	ele cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic fou	undation. Strengt	h analysis.			
620UITS Introduction to Intelli	gent Transport Systems	Z,ZK	7			
Terminology and legislative framework telematics sy	stems and their architecture. Telematics systems in practice and their operation. Fundamentals of in	formation and tel	ecommunication			
systems for ITS. Principles and technical support m	easurement of traffic data, localization and navigation. Practical work with traffic data. Real examp	les of possible ap	oplications of the			
principles of ITS.						
612PPOK Designing Roads, H	ighways and Motorways	KZ	3			
Definition, types, ownership, maintenance, manage	ment and categorization of roads and highways. Curve and transition curve. Sinuosity and standar	rd speed. Route	in rural areas.			
Range of vision for stopping and overtaking. Road	body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Sa	afety device. Cros	sings, junctions,			
intersections.						
614DATS Database Systems		KZ	2			
Basic concepts of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and integrity of data, database						
queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via the WWW.						
615JZ1A Foreign Language -	English 1	Z	3			
Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and communicative skills. Elementary						
stylistics forms. Oral and written presentation of ori	ginal research. Academic text principles and reading comprehension. Principles of rhetoric.					

Code of the group: 4S-BK-LOG-23/24-DC Name of the group: 4th Sem. Bachelor Part-Time TET-LOG from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 26 Note on the group:

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
611MSP	Modeling of Systems and Processes Jana Kuklová, Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
617ESYS	Transport Systems Economy Rudolf Franz Heidu	Z,ZK	6	3P+2C+18B	L	Z
617LGT	Logistics Daniel Pilát Tomáš Horák (Gar.)	Z,ZK	6	3P+2C+18B	6 L	Z
617MDP	Transport prognostic methods	KZ	2	2P+0C+10B	5 L	Z
611LP	Linear Programming Šárka Vorá ová, Pavla Pecherková, Ivan Nagy Pavla Pecherková Šárka Vorá ová (Gar.)	KZ	3	2P+1C+12B	L	Z
616DPO	Vehicle Technology Josef Mik Josef Mik (Gar.)	KZ	2	2P+0C+10B	L	Z
615JZ2A	Foreign Language - English 2 Jan Feit, Karolina Beauxisová, V ra Pastorková	Z,ZK	3	0P+4C+10B	s L	Z

Characteristics of the courses of this group of Study Plan: Code=4S-BK-LOG-23/24-DC Name=4th Sem. Bachelor Part-Time TET-LOG from 2023/24

611MSP	Modeling of Systems and Processes	Z,ZK	4			
System and subsystem,	external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of dif	ferential and differ	rential equations.			
Linear and nonlinear sy	stem, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function	n. Stability of LTI	systems.			
Discretization of continu	ious systems. System interconnection.					
617ESYS	Transport Systems Economy	Z,ZK	6			
Macroeconomics, macroeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its quantification, rationalization						
of transport system.						
617LGT	Logistics	Z,ZK	6			
Logistics definition, basi	c concepts, store, warehouse, transport and handling equipment, logistics technology, logistics centers, information and inte	ligent logistics sy	stems, logistics			
city.						
617MDP	Transport prognostic methods	KZ	2			
The techniques of econ	omical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statis	tical values using	differencies and			
indices.						
611LP	Linear Programming	KZ	3			
Formulation of the probl	em of linear programming, transcription of some practical problems to the linear programming problems. Simplex and convex	polyedra. Simple	ex method, basic			
solutions, duality princip	le in linear programming, stability of solution of linear programming problem. Traffic problem.					
616DPO	Vehicle Technology	KZ	2			
Vehicle. Functions, princ	siples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage	e design. Drive. E	lectric traction.			
Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Safety.						
615JZ2A	Foreign Language - English 2	Z,ZK	3			
Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and communicative skills. Elementary						
stylistics forms. Oral and	d written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.					

Code of the group: 5S-BK-LOG-24/25-DC

Name of the group: 5th Sem. Bachelor Part-Time TET-LOG from 2024/25 Requirement credits in the group: In this group you have to gain 23 credits Requirement courses in the group: In this group you have to complete 6 courses Credits in the group: 23

Note on the group:

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
612ZPV	Railway Operation Martin Jacura Martin Jacura (Gar.)	Z,ZK	4	2P+1C+12B	Z	Z
617EPOD	Economics of Transport Company Alexandra Dvo á ková Veronika Faifrová (Gar.)	Z,ZK	6	4P+2C+18B	Z	Z
617TVD	Technology of Public Transport Michal Drábek Vít Janoš (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
614DMG	Datamining Ond ej Smíšek	KZ	2	0P+2C+10B	Z	Z
617MAGD	Marketing Transport Alexandra Dvo á ková Petra Skolilová (Gar.)	KZ	4	2P+1C+12B	Z	Z
617ZAP	Fundamentals od law Martina D v rová Martina D v rová (Gar.)	Z	2	10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5S-BK-LOG-24/25-DC Name=5th Sem. Bachelor Part-Time TET-LOG from 2024/25

612ZPV	Railway Operation	Z,ZK	4			
Legislation in railway transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic operation. Railway vehicles						
brakes. Railway vehicle	s marking. Operation intervals. Theoretical graph of train running.					

Economics of Transport Company	Z.ZK	6		
	, ,	arket, transport		
ent, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport.				
Technology of Public Transport	Z,ZK	5		
The course contents a detailed description of new knowledge and basic principles of hierarchical planning of public transport system accenting the general transport planning and				
nand. The course would be oriented on multiple and multi-level optimisation of passenger public transport system.				
Datamining	KZ	2		
nd knowledge, data warehouses and OLAP technology for data mining, data preprocessing in the process of knowledge acc	uisition systems	for data mining,		
f concepts (classes), mining association rules from relational db. and data warehousing, classification (decisions tree, Bayes	ian cob., using ne	eural networks).		
ysis. Mining in complex structured data, multimedia dbf., www.				
Marketing Transport	KZ	4		
c marketing plans, Implementation of marketing campaigns, Branding and brand promotion, Public relations industry, busine	ss and vertical m	arket, Website		
development, search engine optimization, Government relations and industry organization lobbying, Advertising and strategic sponsorships, Multimedia presentations and corporate				
videos, Direct marketing and related lead generation campaigns				
Fundamentals od law	Z	2		
	ant, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport. Technology of Public Transport detailed description of new knowledge and basic principles of hierarchical planning of public transport system accenting the grand. The course would be oriented on multiple and multi-level optimisation of passenger public transport system. Datamining Ind knowledge, data warehouses and OLAP technology for data mining, data preprocessing in the process of knowledge acc f concepts (classes), mining association rules from relational db. and data warehousing, classification (decisions tree, Bayes ysis. Mining in complex structured data, multimedia dbf., www. Marketing Transport c marketing plans, Implementation of marketing campaigns, Branding and brand promotion, Public relations industry, busine igine optimization, Government relations and industry organization lobbying, Advertising and strategic sponsorships, Multime and related lead generation campaigns	y, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transportation ment, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport. Technology of Public Transport Z,ZK detailed description of new knowledge and basic principles of hierarchical planning of public transport system accenting the general transport and multi-level optimisation of passenger public transport system. Z,ZK Datamining KZ nd knowledge, data warehouses and OLAP technology for data mining, data preprocessing in the process of knowledge acquisition systems f concepts (classes), mining association rules from relational db. and data warehousing, classification (decisions tree, Bayesian cob., using ne ysis. Mining in complex structured data, multimedia dbf., www. KZ Marketing Transport KZ c marketing plans, Implementation of marketing campaigns, Branding and brand promotion, Public relations industry, business and vertical m igine optimization, Government relations and industry organization lobbying, Advertising and strategic sponsorships, Multimedia presentation: and related lead generation campaigns		

Code of the group: 6S-BK-LOG-23/24-DC Name of the group: 6th Sem. Bachelor Part-Time TET-LOG from 2023/24 Requirement credits in the group: In this group you have to gain 22 credits Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 22

Note on the group:

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
617FID	Financing and investment in transport Alexandra Dvo á ková Olga Mertlová (Gar.)	Z,ZK	4	2P+1C+12E	B L	Z
617IVED	Integration of Public Transport Roman Št rba Roman Št rba (Gar.)	Z,ZK	3	2P+1C+10E	B L	Z
617KLID	Quality in transport service Pavel Edvard Van ura Pavel Edvard Van ura (Gar.)	Z,ZK	3	2P+1C+10E	B L	Z
617MRRK	Managerial Decision-making and Management Alexandra Dvo á ková Alexandra Dvo á ková (Gar.)	Z,ZK	3	10B	L	Z
614MPG	Modern Programming Approaches Ond ej Smíšek Ond ej Smíšek (Gar.)	KZ	2	0P+2C+8E	B L	Z
617GEDS	Geography of Transport Systems	KZ	2	2P+0C+8E	B L	Z
612ZAR	Introduction to Architectural Design Petr ervenka, Jana Kumpoštová	Z	3	2P+0C+8E	B L	Z
617NAPR	Freight Traffic Roman Št rba Roman Št rba (Gar.)	Z	2	2P+0C+8E	B L	Z

Characteristics of the courses of this group of Study Plan: Code=6S-BK-LOG-23/24-DC Name=6th Sem. Bachelor Part-Time TET-LOG from 2023/24

617FID	Financing and investment in transport	Z,ZK	4			
Sources of financing of	transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investm	nent project proje	ct cycle, subsidy			
programs and their rule	s, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and programs.					
617IVED	Integration of Public Transport	Z,ZK	3			
Transport policy of both	Transport policy of both EU and CR, transport sectoral strategies, land use planning and evolution of space organization, integration of public service in territory, forms and content of					
activities and organizati	onal structures of integrated public transport systems, internal and external bindings, contracting, carriage relations, condition	ns of both rail and	l bus transport			
operations, grading and	quality, IS, marketing.					
617KLID	Quality in transport service	Z,ZK	3			
General interpretation of	f quality, standards and international standardization, integrated management systems, modern attitudes of quality managen	nent, quality in tra	insport service			
and logistics, methods of	f quality measurement, quality management, risks and opportunities, public transport quality, view of costumers, carriers and	PT-organizers, q	uality standards,			
quality costs, marketing	and costumer satisfaction.					
617MRRK	Managerial Decision-making and Management	Z,ZK	3			
Decision-making proces	s; identifying exactly what the problem is; evaluating the issue; solving the issue; using multiple perspective analysis to make	a decision; usual	l method of			
thinking.						
614MPG	Modern Programming Approaches	KZ	2			
Principles of object orie	nted programming, polymorphism, references, memory allocation, inheritage, generic programming, operator overloading, S	ΓL library, object i	mplementation			
of abstract data types, g	rraph and graph algorithm implementation focused on logistic problems.					
617GEDS	Geography of Transport Systems	KZ	2			
Regional differentiation	of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develo	pment. Spatial inf	teraction -			
theoretical and methodo	logical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Prac	tical use of transp	ort-geographical			
analysis in transportation planning.						
612ZAR	Introduction to Architectural Design	Z	3			
Urbanism and architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transport. Railway stations. Local						
communications. International airports.						
617NAPR	Freight Traffic	Z	2			
Freight traffic and trans	Freight traffic and transportation system, conditions of implementation, forwarding.					

Code of the group: X1-BK-LOG-22-23-DC Name of the group: Bachelor TET-LOG Part-Time Bachelor Thesis Seminar from 2022/23 Requirement credits in the group: In this group you have to gain 1 credit Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 1 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester members) Tutors, authors and guarantors (gar.) 611XBBP Ζ 1 6B **Bachelor Thesis Seminar** 612XBBP Ζ 6B 1 **Bachelor Thesis Seminar** 614XBBP **Bachelor Thesis Seminar** Ζ 1 6B **Bachelor Thesis Seminar** Ζ 615XBBP 1 6B Petr Musil 616XBBP Ζ 1 6B **Bachelor Thesis Seminar** 623XBBP Ζ 6B 1 **Bachelor Thesis Seminar Bachelor Thesis Seminar** 618XBBP Ζ 1 6B Daniel Pilát Ζ 620XBBP 1 6B **Bachelor Thesis Seminar** 621XBBP Ζ **Bachelor Thesis Seminar** 1 6B

Characteristics of the courses of this group of Study Plan: Code=X1-BK-LOG-22-23-DC Name=Bachelor TET-LOG Part-Time Bachelor Thesis Seminar from 2022/23

Ζ

Ζ

1

1

6B

6B

Role

Ζ

Ζ

Ζ

Ζ

Z

z

Z

7

z

z

Z

L

L

L

L

L

L

L

L

L

L

L

611XBBP	Bachelor Thesis Seminar	Z	1
612XBBP	Bachelor Thesis Seminar	Z	1
614XBBP	Bachelor Thesis Seminar	Z	1
615XBBP	Bachelor Thesis Seminar	Z	1
616XBBP	Bachelor Thesis Seminar	Z	1
623XBBP	Bachelor Thesis Seminar	Z	1
618XBBP	Bachelor Thesis Seminar	Z	1
620XBBP	Bachelor Thesis Seminar	Z	1
621XBBP	Bachelor Thesis Seminar	Z	1
622XBBP	Bachelor Thesis Seminar	Z	1
617XBBP	Bachelor Thesis Seminar	Z	1

Name of the block: Compulsory elective courses Minimal number of credits of the block: 12 The role of the block: PV

Bachelor Thesis Seminar

Bachelor Thesis Seminar

Code of the group: W1-BK-LOG-23/24-DC Name of the group: Comp. Sel. Courses Bachelor Part-Time TET-LOG from 2023/24 Requirement credits in the group: In this group you have to gain 12 credits Requirement courses in the group: In this group you have to complete 3 courses Credits in the group: 12

Note on the group:

622XBBP

617XBBP

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
615W1BO	Work Safety and Health Protection in Transportation Petr Musil	KZ	4	8B	L	PV
621W1BS	Unmanned aircraft systems 1	KZ	4	8B	L	PV
617W1EV	Public Sector Economy	KZ	4	8B	Z	PV
614W1HW	Computer Hardware	KZ	4	8B	L	PV
615W1HE	Work Hygiene and Ergonomics in Traffic Petr Musil	KZ	4	8B	Z	PV

617W1LL	Logistics of Passenger and Freight Air Transportation	KZ	4	8B	L	PV
617W1MD	Marketing in Transportation	KZ	4	8B	Z	PV
621W1MP	Matlab for project-oriented study	KZ	4	8B	Z	PV
621W1OH	Airline Business and Operations	KZ	4	8B	Z	PV
617W1OF	Personal Finance Alexandra Dvo á ková Alexandra Dvo á ková (Gar.)	KZ	4	8B	Z	PV
617W1PM	Personnel Management Stanislava Holíková	KZ	4	8B	L	PV
614W1PZ	Advanced Data Processing in Spreadsheets	KZ	4	8B	Z	PV
614W1PJ	C Programming Language	KZ	4	8B	Z	PV
616W1PV	Operation, Construction and Maintenance of Vehicles	KZ	4	8B	L	PV
621W1RZ	Human Resources Management	KZ	4	8B	L	PV
617W1ST	Titan Simulation	KZ	4	8B	L	PV
617W1SL	Sociology of Human Resources	KZ	4	8B	Z	PV
617W1SK	Urban and Regional Rail Transport Systems	KZ	4	8B	L	PV
621W1TH	Aircraft Technical Handling	KZ	4	8B	Z	PV
614W1UP	Editing of Theses in MS Word	KZ	4	8B	L	PV

Characteristics of the courses of this group of Study Plan: Code=W1-BK-LOG-23/24-DC Name=Comp. Sel. Courses Bachelor Part-Time TET-LOG from 2023/24

615W1BO Work Safety and Health Protection in Transportation	KZ	4		
Fundamental legislative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation	i. Health protectio	n programmes,		
health insurance of home and foreign business trips, statistics, working practice.				
621W1BS Unmanned aircraft systems 1	KZ	4		
Unmanned Aviation Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division.	Operational risks	and operational		
procedures. Practical flights.		·		
617W1EV Public Sector Economy	KZ	4		
Economic and financial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of	public projects (C	BA, MCA, CEA),		
tax system of the CR, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, fundin	g from EU funds,	program HDM-4.		
614W1HW Computer Hardware	KZ	4		
Computer architecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate	e parts designing	- controllers,		
arithmetic and logical units, I/O subsystem.				
615W1HE Work Hygiene and Ergonomics in Traffic	KZ	4		
Basic knowledge of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these	e factors on healt	h of workers.		
Creation and protection of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to	o possibilities and	skills of man.		
Practical examples from the field of transportation; relevant legislative.				
617W1LL Logistics of Passenger and Freight Air Transportation	KZ	4		
Logistics airline passenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial t	ransport process	passengers and		
air cargo. Information systems in air transport. Global distribution systems.				
617W1MD Marketing in Transportation	KZ	4		
General principles of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transpo	rt and the resultin	g differences in		
the application of marketing.				
621W1MP Matlab for project-oriented study	KZ	4		
The subject's syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercise	ses will be prepar	ed according to		
particular examples, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvem	ent of students' N	Aatlab skills.		
621W1OH Airline Business and Operations	KZ	4		
The course provides a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the orga	anizational structu	ire of companies,		
various aspects of their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of tra	ansportation proce	esses. It provides		
a basic view of the economic aspects of air transport.				
617W1OF 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 he				
consumer loans, refinancing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability a	and adequacy), se	ecuring the future		
(retirement savings and insurance).				
617W1PM Personnel Management	KZ	4		
Human sources, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercul	itural communicat	tion.		
614W1PZ Advanced Data Processing in Spreadsheets	KZ	4		
Students will be familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of form				
addressing, error detection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, solution finding, solver, macros,				
data analysis. Examples and questions from various companies and training.				
614W1PJ C Programming Language	KZ	4		
C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation,	string, files, struct	tures and unions.		
Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators.				
616W1PV Operation, Construction and Maintenance of Vehicles	KZ	4		
Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measure	ement. Transmissi	ion mechanism.		
General principles of engine diagnostics.				

621W1RZ	Human Resources Management	KZ	4		
The position of human r	esources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ement. Internal an	d external		
environment of human r	esource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and	remuneration of s	staff. Positioning,		
dismissal and redundancies of employees. Education of employees. Planning career management.					
617W1ST	Titan Simulation	KZ	4		
Titan is a management	Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same product. Students set a price and				
determine the quantity a	and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequen	ces of their decis	ions by the form		
of financial corporate re	ports and they use this information for other business decisions.				
617W1SL	Sociology of Human Resources	KZ	4		
Human resources and th	, eir importance, work group as a special kind of social group, communication, personal management, modern management,	uman resources	planning, culture		
of the organization.					
617W1SK	Urban and Regional Rail Transport Systems	KZ	4		
Factors affecting transp	ort demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management,	line networking. C	creating and		
evaluation of the timetal	ole. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transp	ort preferences. T	he role of		
marketing.					
621W1TH	Aircraft Technical Handling	KZ	4		
Aircraft towing and push	ning tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unio	ading units. Equip	oment for		
passangers onboarding	and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical progress.				
614W1UP	Editing of Theses in MS Word	KZ	4		
Students will be introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, create tables of contents, lists of					
figures, tables, graphs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless editing dissertations and theses,					
so that they are able to	concentrate mainly on writing a thesis.				

Name of the block: Jazyky Minimal number of credits of the block: 6 The role of the block: J

Code of the group: JZ-BK-TET-22/23-DC Name of the group: Bachelor TET Part-Time 2nd Language Courses from 2022/23 Requirement credits in the group: In this group you have to gain 6 credits Requirement courses in the group: In this group you have to complete 2 courses Credits in the group: 6

Note on the group:

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
615JZ3F	Foreign Language - French 3 Irena Veselková Irena Veselková (Gar.)	Z	3	0P+4C+10E	Z	J
615JZ3I	Foreign Language - Italian 3	Z	3	0P+4C+10E	Z	J
615JZ3N	Foreign Language - German 3 Eva Rezlerová	Z	3	0P+4C+10E	Z	J
615JZ3R	Foreign Language - Russian 3 Marie Michlová	Z	3	0P+4C+10E	Z	J
615JZ3S	Foreign Language - Spanish 3	Z	3	0P+4C+10E	Z	J
615JZ4F	Foreign Language - French 4 Irena Veselková Irena Veselková (Gar.)	Z,ZK	3	0P+4C+10E	L	J
615JZ4I	Foreign Language - Italian 4	Z,ZK	3	0P+4C+10E	6 L	J
615JZ4N	Foreign Language - German 4 Eva Rezlerová, Sv tlana Petrová, René Skalický	Z,ZK	3	0P+4C+10E	L	J
615JZ4R	Foreign Language - Russian 4 Marie Michlová, Vilma Gottwaldová	Z,ZK	3	0P+4C+10E	6 L	J
615JZ4S	Foreign Language - Spanish 4	Z,ZK	3	0P+4C+10E	6 L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-BK-TET-22/23-DC Name=Bachelor TET Part-Time 2nd Language Courses from 2022/23

615JZ3F	Foreign Language - French 3	Z	3				
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 com	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professio	nal) text and its				
features. Practice of ora	I and written presentation.						
615JZ3I	Foreign Language - Italian 3	Z	3				
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	, of language struc	ture knowledge				
and perceptive and com	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professio	nal) text and its				
features. Practice of ora	I and written presentation.						
615JZ3N	Foreign Language - German 3	Z	3				
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 ora	features. Practice of oral and written presentation.						

615JZ3R	Foreign Language - Russian 3	Z	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure knowledge		
and perceptive and comm	nunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professior	nal) text and its		
features. Practice of oral	and written presentation.				
615JZ3S	Foreign Language - Spanish 3	Z	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure 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.				
615JZ4F	Foreign Language - French 4	Z,ZK	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge		
and perceptive and comm	nunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professior	nal) text and its		
features. Practice of oral	and written presentation.				
615JZ4I	Foreign Language - Italian 4	Z,ZK	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure knowledge		
and perceptive and comm	nunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professior	nal) text and its		
features. Practice of oral	and written presentation.				
615JZ4N	Foreign Language - German 4	Z,ZK	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure knowledge		
and perceptive and comm	nunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professior	nal) text and its		
features. Practice of oral	and written presentation.				
615JZ4R	Foreign Language - Russian 4	Z,ZK	3		
Grammar and stylistics. S	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure knowledge		
and perceptive and comm	nunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (professior	nal) text and its		
features. Practice of oral and written presentation.					
615JZ4S	Foreign Language - Spanish 4	Z,ZK	3		
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.				

List of courses of this pass:

Code	Name of the course	Completion	Credits			
611CAL1	Calculus 1	Z,ZK	7			
Sequence of real n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integr	al, Riemann integr	al, improper			
	Riemann integral. First-order differential equations, linear differential equations.					
611CAL2	Calculus 2	Z,ZK	5			
Linea	r differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	surface integrals.				
611FYZ	Physics	Z,ZK	5			
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and elect	ric current.				
611GIE	Geometry	KZ	3			
Orthographic and	oblique projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - param	eterization, arc of	the curve,			
torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving on a curved path.						
611LA	Linear Algebra	Z,ZK	3			
Vector spaces (line	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their		minants and			
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificati					
611LP	Linear Programming	KZ	3			
Formulation of the problem of linear programming, transcription of some practical problems to the linear programming problems. Simplex and convex polyedra. Simplex method, basic						
	solutions, duality principle in linear programming, stability of solution of linear programming problem. Traffic problem.					
611MSP	Modeling of Systems and Processes	Z,ZK	4			
	tem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differe		•			
Linear and non	linear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functio	n. Stability of LTI s	ystems.			
	Discretization of continuous systems. System interconnection.					
611STAT	Statistics	Z,ZK	4			
	ility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation. T	•				
Regression and co	relation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear re multiple regression, the use of matrices in regression.	gression, analysis	of variance,			
611XBBP	Bachelor Thesis Seminar	Z	1			
-		_	1			
612MDE	Transport Models and Transport Excesses	Z,ZK	3			
	raffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qu	,	,			
transport and its assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences. Improving of transport safety and fluency.						
612PPOK	Designing Roads, Highways and Motorways	KZ	3			
Definition, types,	ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard	speed. Route in r	ural areas.			
Range of vision for stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety device. Crossings, junctions,						
	intersections.					
612XBBP	Bachelor Thesis Seminar	Z	1			

612ZAR Urbanism and	Introduction to Architectural Design architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transport	Z rt. Railway stations	3 . Local
	communications. International airports.		
612ZPV Legislation in railv	Railway Operation vay transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffi brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.	Z,ZK c operation. Railwa	4 ay vehicles
612ZTS	Railway Lines and Stations	Z,ZK	4
	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail t	ransport.	-
612ZYDK Role of transportati	Introduction to Transportation Engineering on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, p impacts of transportation to environment and safety.	Z,ZK ublic mass transpo	3 rt. Negative
614ASD	Algorithm and Data Structures	KZ	3
	niliarized with selected basic and derived data structures, algorithms, their properties and their design procedure. Students will analyze et task and the resulting algorithm write by means of flowcharts, practice in reading algorithms recorded by means of the flowchart ar algebra with forming the conditions for the algorithms.		
614DATS	Database Systems	KZ	2
	of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	the WWW.	
614DMG	Datamining	KZ	2
	ces and knowledge, data warehouses and OLAP technology for data mining, data preprocessing in the process of knowledge acquis tics of concepts (classes), mining association rules from relational db. and data warehousing, classification (decisions tree, Bayesian Prediction. Cluster analysis. Mining in complex structured data, multimedia dbf., www.	-	-
614KSP	Constructing with Computer Aid	KZ	2
	m determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common wor Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possib profiles, drawings with raster foundaments).		
614MPG	Modern Programming Approaches	KZ	2
Principles of objec	t oriented programming, polymorphism, references, memory allocation, inheritage, generic programming, operator overloading, STL of abstract data types, graph and graph algorithm implementation focused on logistic problems.	library, object imple	ementation
614PRG	Programming	KZ	2
Algorithm develop	pment, methods of structured programming, high-level programming languages, basics of C programming languages (types, variable functions), programming techniques, complexity.	s, conditions, cycle	es, arrays,
614W1HW	Computer Hardware	KZ	4
Computer archite	ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate p	parts designing - co	ontrollers,
614W1PJ	arithmetic and logical units, I/O subsystem. C Programming Language	KZ	4
	guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir		•
	Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise op		
614W1PZ	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 formu		
	etection. 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.		
614W1UP	Editing of Theses in MS Word introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creat		4
	bhs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ed so that they are able to concentrate mainly on writing a thesis.		
614XBBP	Bachelor Thesis Seminar	Z	1
615DPLG	Transportation Psychology	Z	2
of trave	gy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle const el route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in tra		ical aspects
615JZ1A Grammatical struct	Foreign Language - English 1 ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		3 Elementary
615JZ2A	Foreign Language - English 2	Z,ZK	3
	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles c	mmunicative skills.	Elementary
615JZ3F	Foreign Language - French 3	Z	3
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.		
615JZ3I	Foreign Language - Italian 3	Z	3
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.		-
615JZ3N	Foreign Language - German 3	Z	3
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	1	-
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.	vith (professional)	text and its

			-
615JZ3R	Foreign Language - Russian 3	Z	3
-	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive and cor	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional) text and its
0451700	features. Practice of oral and written presentation.		
615JZ3S	Foreign Language - Spanish 3	Z	3
-	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive and cor	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	vitri (protessional	
615JZ4F	Foreign Language - French 4	Z,ZK	3
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
=	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		-
	features. Practice of oral and written presentation.		
615JZ4I	Foreign Language - Italian 4	Z,ZK	3
Grammar and stylistics	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	anguage structure	knowledge
and perceptive and cor	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional) text and it
	features. Practice of oral and written presentation.		1
615JZ4N	Foreign Language - German 4	Z,ZK	3
=	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive and cor	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	vitri (proiessional) text and it
615JZ4R	Foreign Language - Russian 4	Z,ZK	3
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	,	-
	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
	features. Practice of oral and written presentation.		
615JZ4S	Foreign Language - Spanish 4	Z,ZK	3
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		
and perceptive and cor	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional) text and it
	features. Practice of oral and written presentation.		1
615W1BO	Work Safety and Health Protection in Transportation	KZ	4
Fundamental legislative	e, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He	ealth protection p	rogramme
	health insurance of home and foreign business trips, statistics, working practice.	1/7	4
615W1HE	Work Hygiene and Ergonomics in Traffic	KZ	4
Pagia knowladge of a		actors on health	
-	ccupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these finance of working conditions that do not damage public health. Multual links man-machine-environment. Adaptation of technology to provide the second		
-	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to po		
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to portable of transportation; relevant legislative.	ossibilities and sl	kills of man.
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to portactical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar	ossibilities and sl	tills of man.
Creation and protectio 615XBBP 616DPO	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology	Z KZ	kills of man.
Creation and protectio 615XBBP 616DPO Vehicle. Functions, prin	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to portactical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar	Sossibilities and st Z KZ esign. Drive. Elec	kills of man.
Creation and protectio 615XBBP 616DPO Vehicle. Functions, prin	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de	Sossibilities and st Z KZ esign. Drive. Elec	kills of man.
Creation and protectio 615XBBP 616DPO Vehicle. Functions, prin T 616UDOP	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport.	Z KZ esign. Drive. Elec Safety. Z	tills of man.
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology Inciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation.	Z KZ esign. Drive. Elec Safety. Z transport. Altern	tills of man.
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ	tric traction
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to prevention of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to preventical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ	tills of man.
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transporta 616W1PV Methods of vehicle prod	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to preventical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics.	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ ent. Transmission	tric traction
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transporta 616W1PV Methods of vehicle protection 616XBBP	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to prevention of technology to prevention of technology to prevent legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ ent. Transmission Z	tric traction
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transporta 616W1PV Methods of vehicle protection 616XBBP 617EPOD	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to prevention of technology to prevention of technology to prevent tegislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ ent. Transmission Z Z,ZK	tric traction
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transporta 616W1PV Methods of vehicle protection 616XBBP 617EPOD	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to prevention of technology to prevention of technology to prevent tegislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Company	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark	tric traction
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transporta 616W1PV Methods of vehicle protection 616XBBP 617EPOD Economy, marginal utility	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to preventical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport, it's environment, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort.	1 2 tric traction 2 ative mean 4 mechanism 1 6 et, transport
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to preventical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK	1 2 tric traction 2 ative mean 4 mechanism 1 6 et, transpon 6
Creation and protectio	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to preventical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK	1 2 tric traction 2 ative mean 4 mechanism 1 6 et, transpon 6
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP Vehicles and transportation 616W1PV Methods of vehicle prod 616XBBP 617EPOD Economy, marginal utilitie 617ESYS Macroeconomics, macro	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to por Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system.	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization
Creation and protection 615XBBP 616DPO Vehicle. Functions, printer T 616UDOP /ehicles and transportation 616W1PV /dethods of vehicle prodection 616XBBP 617EPOD Economy, marginal utilitie 617ESYS /dacroeconomics, macroeconomics, mac	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per- Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system.	Z KZ esign. Drive. Elec Safety. 2 • transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK	1 2 tric traction 2 ative mean 4 mechanism 1 6 et, transpo 6 ationalization 4
Creation and protection 615XBBP 616DPO /dehicle. Functions, primere 616UDOP /dehicles and transportation 616W1PV /dehods of vehicle production 616XBBP 617EPOD Conomy, marginal utilities 617FID ources of financing of	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to por Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system.	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s roject project c	1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4
Creation and protection 615XBBP 616DPO Vehicle. Functions, primeration T 616UDOP /ehicles and transportation 616W1PV /dethods of vehicle production 616XBBP 617EPOD Economy, marginal utilitie 617ESYS dacroeconomics, macro 617FID ources of financing of progr	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company Ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK s project project c g programs.	1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 4 4 5 4 4 4 5 4 6 4 4 5 4 4 5 4 5 4 5 6 4 5 6 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Creation and protection 615XBBP 616DPO Vehicle. Functions, printer T 616UDOP /ehicles and transportation 616W1PV /dethods of vehicle production 616XBBP 617EPOD Economy, marginal utilities 617FSYS lacroeconomics, macrosoft 617FID ources of financing of progr 617GEDS	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per- Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK s quantification, ra KZ	1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsiding 2
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage de Transphirement. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport transport function, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int	1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsi 2 eraction -
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per- Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int	1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsition 2 eraction -
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage dr fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport soft transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport systems. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop logical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. Integration of Public Transport	Z KZ esign. Drive. Elec Safety. Transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int I use of transport- Z,ZK	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsite 2 eraction - geographic 3
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di transshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport system, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport system. Financing and investment in transport transport transport system and its of transport system. Financing and investment in transport transport and local and regional develop ological framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transport system planing. Integration of Public Transport Lingaport Systems fransport and local and regional develop ological framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transport and evolution of space organization, integration of public service in evolution of space organization, integration of public service in transport and local and regional develop ological framework.	Z KZ esign. Drive. Elec Safety. rtransport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int l use of transport- Z,ZK territory, forms au	1 1 2 tric traction ative mean 4 mechanism 1 6 ationalization 4 9 1 6 ationalization 2 ationalization 3 ad content
Creation and protection	en of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport, starsport system, transport externalities, energy in transport, state transport, system and its of transport system. Financing and investment in transport Geography of Transport Systems in on of the transport, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems in or of the transport system. Sciegographic regionalization and its relation to transport. Transport and local and regional develop logical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transport EU and CR, transport sectoral strategies, land use planning and evolution of space organization, integration of public service in tional structures of integrated public transport systems, internal and external bindings, contracting, carriage relations, conditions of	Z KZ esign. Drive. Elec Safety. rtransport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int l use of transport- Z,ZK territory, forms au	1 1 2 tric traction ative mean 4 mechanism 1 6 ationalization 4 9 1 6 ationalization 2 ationalization 3 ad content
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per- Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di transphipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Tran- company, it's environment, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transport Transport Systems Economy eeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system. Sociogeographic regionalization and its relation to transport. Modal competition. Practical analysis in transportation planning. Integration of Public Transport to dra transport sectoral strategies, land use planning and evolution of spac	Z KZ esign. Drive. Elect Safety. Z transport. Altern KZ ent. Transmission Z XZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra Z,ZK project project c programs. KZ poment. Spatial intil use of transport- Z,ZK territory, forms and of both rail and b	1 1 2 tric traction ative mean 4 mechanism 1 6 ationalizati 4 9 1 6 ationalizati 2 ationalizati 3 ad content us transpo
Creation and protection 615XBBP 616DPO Vehicle. Functions, prim T 616UDOP //ehicles and transporta 616W1PV //ehicles and transporta 616W1PV //ehicles and transporta 616W1PV //ehicles and transporta 616XBBP 617EPOD Economy, marginal utili 617ESYS /dacroeconomics, macro 617FID iources of financing of progr 617GEDS Regional differentiati heoretical and methodo 617IVED ransport policy of both activities and organizat 617KLID	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per- Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage du fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport sotors, transport system, transport Systems Economy eeconomic indicators, transport system, transport Systems Economy eeconomic indicators, transport system, transport Systems Company itransport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rans and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop logical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. Integration of Public Transport be U and CR, transport sectoral strategies, land use planning and	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ int. Transmission Z,ZK is quantification, ra Z,ZK is quantification, ra Z,ZK is project project c d programs. KZ poment. Spatial int I use of transport- Z,ZK territory, forms an of both rail and b	1 1 2 tric traction ative mean 4 mechanism 1 6 ationalization 6 ationalization 2 eraction - geographic 3 nd content us transpo 3 3 3 3
Creation and protection 615XBBP 616DPO Vehicle. Functions, primeration 616UDOP Vehicles and transportation 616W1PV Methods of vehicle production 616XBBP 616XBBP 617EPOD Economy, marginal utilition 617FSYS Accroeconomics, macrostream 617GEDS Regional differentiation ransport policy of both activities and organization 617KLID General interpretation	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage do transphirment. Technological components of various modes of transport. Management and control of various means of transport. Inttroduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Tran company, it's environment, balance sheet, costs, revenue, profit and maximalization of profit. Business plan, taxation in transp Transport Systems Economy oeconomic indicators, transport system, transport Systems Economy contraint infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop logical framework. Mobility research - travel behavior, mode choice and the influence onto "modal-spilt." Modal competition. Practical analysis in transport systems. Integration of Public Transport et uand CR, transport sectoral strategies, land use planning and e	Z KZ esign. Drive. Elect Safety. Z transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra KZ project project ct t programs. KZ poment. Spatial intil use of transport- Z,ZK territory, forms and of both rail and b Z,ZK t, quality in trans	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsidient geographic 3 nd content us transpon 3 port servic
Creation and protection 615XBBP 616DPO Vehicle. Functions, primeration 616UDOP Vehicles and transportation 616W1PV Methods of vehicle production 616XBBP 616XBBP 617EPOD Economy, marginal utilition 617FSYS Accroeconomics, macrostream 617GEDS Regional differentiation ransport policy of both activities and organization 617KLID General interpretation	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system, shared echoid is relation to transport. Transport and local and regional develop logical framework. Mobility research - trave behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. Integration of Public Transport EU and CR, transport sectoral strategies, land use planning and evolution of space organization, integration of public service in tional structures of integrated public transport systems, internal and external bindings, contracting, carriage relations, co	Z KZ esign. Drive. Elect Safety. Z transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra KZ project project ct t programs. KZ poment. Spatial intil use of transport- Z,ZK territory, forms and of both rail and b Z,ZK t, quality in trans	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subsidient geographic 3 nd content us transpon 3 port servic
Creation and protection 615XBBP 616DPO Vehicle. Functions, printer 616UDOP Vehicles and transportation 616W1PV Methods of vehicle production 616XBBP 616XBBP 617EPOD Economy, marginal utilition 617FID Sources of financing of progr 617GEDS Regional differentiation neoretical and methodo 617IVED Transport policy of both activities and organization of not progr 617KLID General interpretation of not logistics, methods of the progr	an of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di Transport. Technological components of various modes of transport. Management and control of various means of transport Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport, system and it of transport system. Financing and investment in transport transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment rams and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems Integration of Public Transport and lis relation to transport. Transport and local and regional develop alogical framework. Mobility research trave behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. Integration of Public Transport EU and CR, transport sectoral strategies, land use planning and evaluation of sp	Z KZ esign. Drive. Elect Safety. Z transport. Altern KZ ent. Transmission Z,ZK nsportation mark ort. Z,ZK s quantification, ra KZ project project c t programs. KZ poment. Spatial intil use of transport- Z,ZK territory, forms and of both rail and b Z,ZK t, quality in trans organizers, quality	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 ycle, subside 2 eraction - geographic 3 port service ty standard
Creation and protection	on of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to per Practical examples from the field of transportation; relevant legislative. Bachelor Thesis Seminar Vehicle Technology nciples. Drive, vehicle construction. Road transport, safety, heavy duty vehicle desing, dynamics. Rail transport, safety, carriage di fransshipment. Technological components of various modes of transport. Management and control of various means of transport. Introduction into Vehicles ation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Operation, Construction and Maintenance of Vehicles duction. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Bachelor Thesis Seminar Economics of Transport Company ity, marginal costs, function of supply and demand, market equilibrium, perfect competition and types of market arrangement. Transport Systems Economy oeconomic indicators, transport system, transport externalities, energy in transport, shared economy, state transport system and its of transport system. Financing and investment in transport and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and Geography of Transport Systems ion of the transport system, shared echoid is relation to transport. Transport and local and regional develop logical framework. Mobility research - trave behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. Integration of Public Transport EU and CR, transport sectoral strategies, land use planning and evolution of space organization, integration of public service in tional structures of integrated public transport systems, internal and external bindings, contracting, carriage relations, co	Z KZ esign. Drive. Elec Safety. Z transport. Altern KZ int. Transmission Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK s quantification, ra Z,ZK project project c d programs. KZ poment. Spatial int l use of transport- Z,ZK territory, forms an of both rail and b Z,ZK it, quality in trans organizers, quali	1 1 2 tric traction 2 ative mean 4 mechanism 1 6 ationalization 4 9 1 6 ationalization 2 eraction - geographic 3 nd content us transpon 3 port servic ty standarce 6

617MAGD	Marketing Transport	KZ	4
1	rategic marketing plans, Implementation of marketing campaigns, Branding and brand promotion, Public relations industry, business a		· · ·
-	ch engine optimization, Government relations and industry organization lobbying, Advertising and strategic sponsorships, Multimedia		
	videos, Direct marketing and related lead generation campaigns		
617MDP	Transport prognostic methods	KZ	2
	conomical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical		
	indices.		
617MRRK	Managerial Decision-making and Management	Z,ZK	3
1	process; identifying exactly what the problem is; evaluating the issue; solving the issue; using multiple perspective analysis to make a		-
Decision making	thinking.		
	Freight Traffic	Z	2
617NAPR	•	2	2
	Freight traffic and transportation system, conditions of implementation, forwarding.		
617TEDK	Transport Technology and Logistics	KZ	4
	sport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight trans	-	
	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usin		
617TGA	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 ot	her scientific dis	sciplines.
617TVD	Technology of Public Transport	Z,ZK	5
The course conte	nts a detailed description of new knowledge and basic principles of hierarchical planning of public transport system accenting the gen	eral transport p	lanning and
	quantified transport demand. The course would be oriented on multiple and multi-level optimisation of passenger public transport s	system.	
617W1EV	Public Sector Economy	KZ	4
1	ncial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public	c projects (CBA	, MCA, CE
x system of the CF	R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from	m EU funds, pro	gram HDM
617W1LL	Logistics of Passenger and Freight Air Transportation	KZ	4
-	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport		ssenaers a
5	air cargo. Information systems in air transport. Global distribution systems.		J
617W1MD	Marketing in Transportation	KZ	4
1	of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport ar		
	the application of marketing.	ia ine resulting (
617W1OF	Personal Finance	KZ	4
1	budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of housi		
insumer ioans, rei	inancing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a	dequacy), secu	ring the lut
	(retirement savings and insurance).		
617W1PM	Personnel Management	KZ	4
Human sourc	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc	ultural commun	ication.
1			
Human source	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc	ultural commun KZ	ication.
Human source 617W1SK Factors affecting	es, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc Urban and Regional Rail Transport Systems	ultural commun KZ e networking. C	ication. 4 reating and
Human source 617W1SK Factors affecting	es, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interview of the second s	ultural commun KZ e networking. C	ication.
Human source 617W1SK Factors affecting	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpo	ultural commun KZ e networking. C	ication.
Human source 617W1SK Factors affecting evaluation of the 617W1SL	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercest of Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing.	KZ e networking. C rt preferences.	reating and
Human source 617W1SK Factors affecting evaluation of the 617W1SL	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpo marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, human	KZ e networking. C rt preferences.	reating and
Human source 617W1SK Factors affecting evaluation of the 617W1SL uman resources a	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization.	KZ e networking. C rt preferences. KZ an resources pla	ication. 4 reating and The role of 4 nning, cultu
Human source 617W1SK Factors affecting evaluation of the 617W1SL Juman resources a 617W1ST	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intervolution Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation	KZ e networking. C rt preferences. KZ an resources pla	ication. 4 reating and The role of 4 nning, cultu
Human source 617W1SK Factors affecting evaluation of the 617W1SL luman resources a 617W1ST Titan is a manag	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intervolution Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line a timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation ement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same product	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a	ication. 4 reating and The role of 4 nning, cultu 4 a price and
Human source 617W1SK Factors affecting evaluation of the 617W1SL Juman resources a 617W1ST Titan is a manag	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interior Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Image: time addition of production, plan budgets for marketing, research and development. They become familiar with the consequences	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a	ication. 4 reating and The role of 4 nning, cultu 4 a price and
Human source 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intervention Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Importance game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same productity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decisior	ication. 4 reating and The role of 4 nning, cultu 4 a price and is by the fo
Human source 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interced Urban and Regional Rail Transport Systems Intercedent content of the systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation uement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decisior	ication. 4 reating and The role of 4 nning, culti 4 a price and a price and s by the fo
Human sources a 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interced Urban and Regional Rail Transport Systems Interceductor of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation. Interces of the adaptation of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation. Image: Construct of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation. Image: Construct of the adaptation of the adaptation of the adaptation. Image: Construct of the adaptation. Image: Construct of the adaptation of the adaptation. Image: Construct of the adaptation. Image: Construct of the adaptation of the adaptation. Image: Construct of the adaptation. Image: Construct of the adaptation of the adaptation. Image: Construct of the adaptation. Image: Construct of the adaptation of the adaptation. Image: Construct of the adaptation of the ad	KZ e networking. C rrt preferences. KZ an resources pla KZ t. Students set a of their decisior Z	ication. 4 reating and The role of 4 nning, culture 4 a price and a price and 5 by the for 1 2
Human sources a 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY	ess, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interior Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line te timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Imment game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK	ication. A reating and The role of A nning, cultured A a price and a price and by the for 1 2 3
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage termine the quan 617XBBP 617ZAP 618MTY asic course of mat	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpor marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Importance game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure	KZ e networking. C rrt preferences. KZ an resources pla KZ t. Students set a of their decisior Z Z,ZK e. However the r	ication. A reating and The role of A nning, culture A a price and a price and by the for 1 2 3 main attent
Human sources a 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of mat	ess, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interior Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line te timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Imment game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering	KZ e networking. C rrt preferences. KZ an resources pla KZ t. Students set a of their decisior Z Z,ZK e. However the r	ication. A reating and The role of A nning, culture A a price and a price and by the for 1 2 3 main attent
Human sources a 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of mat	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpor marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Importance game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure	KZ e networking. C rrt preferences. KZ an resources pla KZ t. Students set a of their decisior Z Z,ZK e. However the r	ication. A reating and The role of A nning, culture A a price and a price and by the for 1 2 3 main attent
Human sources a 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of mat	transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Importance of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure. Index of the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com	KZ e networking. C rrt preferences. KZ an resources pla KZ t. Students set a of their decisior Z Z,ZK e. However the r	ication. A reating and The role of A nning, culture A a price and a price and by the for 1 2 3 main attent
Human source 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpor marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation ement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same product tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and by the fo 1 2 3 main attent n is also p
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre-	cess, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercest Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line a timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources nd their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation rement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same productity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and by the fo 1 2 3 main attent n is also p 3 at of structu
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre- Analysis of defle	transport demand, modal-split, distribution of passenger flows on public regional transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpor marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Titan Simulation Internation of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure. the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength ession. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt	ication. 4 reating and The role of 4 A nning, cult 4 4 a price and b by the for 1 2 3 main attent n is also p 3 at of structu h analysis.
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre- Analysis of defle 618SAT	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources nd their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation uement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com- to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength ession. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic fou Structural Analysis	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and b by the for 1 2 3 main attent n is also p 3 at of structu h analysis. 4
Human sources 617W1SK Factors affecting evaluation of the 617W1SL Juman resources a 617W1ST Titan is a manage termine the quan 617XBBP 617ZAP 618MTY asic course of material paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation mement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the most important engineering explains mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com- to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength assion. Bending of beam. Shear stress during bending of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic fou Structural Analysis of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attention Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and b by the for 1 2 3 main attent n is also p 3 at of structu h analysis. 4 4 4 4 4 4 4 4 4 4 4 4 4
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system o	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpor marketing. Sociology of Human Resources nd their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength ession. Bending of beam. Shear stress during bending of beam. Design of riveted, bolted toin curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic four otrices in plane and space. Calculation of reactions of bodies and structure. Assessment of internal forces on statically determinate ork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in trues constructions.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attention Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim	ication. A reating and The role of A Inning, cultur 4 a price and a price and by the fo 1 2 3 main attention in is also part is also part a structur h analysis. 4 apple girders
Human source 617W1SK Factors affecting evaluation of the 617W1SL Jman resources a 617W1ST Titan is a manage termine the quantity 617XBBP 617ZAP 618MTY asic course of mate paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of inciple of virtual w	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation tement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure. Elasticity and Strength sesion. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for of planar shapes. Fiber polygons and chains.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim Cross-sectional of	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and b by the for 1 2 3 main attent n is also p 3 at of structu h analysis. 4 uple girders characterist
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage termine the quantification 617XBBP 617ZAP 618MTY asic course of material paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of inciple of virtual w 618TED	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, interd Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin to timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the same produce of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering explains mechanical properties of structural materials based on their bonding forces and microstructure to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength ession. Bending of beam. Shear stress during bending of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic foru Structural Analysis of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate ork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Of planar shapes. Fiber polygons and chains.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim Cross-sectional of KZ	ication. 4 reating and The role of 4 A nning, cult 4 4 a price and a price and by the for 1 2 3 main attent n is also p 1 3 nt of structu h analysis. 4 uple girders characterist
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage termine the quantification 617XBBP 617ZAP 618MTY asic course of material paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of inciple of virtual w 618TED	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Tritan Simulation Internation of the organization. International corporate reports and they use this information for other business decisions. Lets 2-8 student groups to produce and compete in the market with the same product tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering explains mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength Structural Analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Shear stress during bending. Stability of compressed bar and buckling. Beam on elastic four or polymes and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate systems. Determination of axial forces in truss constructions. Or of planar shapes. Fiber polygons and chains. Technical diagrams and charts, dimensional code parashapes. Text polygons and chains.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim Cross-sectional of KZ	ication. 4 reating and The role of 4 A nning, cult 4 4 a price and a price and by the for 1 2 3 main attent n is also p 1 3 nt of structu h analysis. 4 uple girders characterist
Human sources 617W1SK Factors affecting evaluation of the 617W1SL Jman resources a 617W1ST Titan is a manage termine the quantified 617XBBP 617XBBP 617ZAP 618MTY asic course of mate paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of inciple of virtual w 618TED Technical standar	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Item and the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the busines and microstructure. It menst important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength for the same of statically determinate or design and analysis of cross section of beam. Design of riveted, bolted citon curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic forus or plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on sta	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir indation. Strengt Z,ZK beams and sim Cross-sectional of KZ and geometrica	ication. 4 reating and The role of 4 Anning, cult 4 4 a price and a price and by the for 1 2 3 main attent n is also p 3 at of structu h analysis. 4 apple girders characterist 2 al accuracy
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar 618XBBP	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Tritan Simulation Internation of the organization. International corporate reports and they use this information for other business decisions. Lets 2-8 student groups to produce and compete in the market with the same product tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering explains mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength Structural Analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Shear stress during bending. Stability of compressed bar and buckling. Beam on elastic four or polymes and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate systems. Determination of axial forces in truss constructions. Or of planar shapes. Fiber polygons and chains. Technical diagrams and charts, dimensional code parashapes. Text polygons and chains.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim Cross-sectional of KZ and geometrica Z	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and a price and 5 1 2 3 main attent n is also p 3 at of structu h analysis. 4 aple girders characterist 2 al accuracy 1
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage termine the quantified 617XBBP 617XBBP 617ZAP 618MTY asic course of mater paid to metals as 618PZP ension and compre- Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation Item and the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering the busines and microstructure. It menst important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength for the same of statically determinate or design and analysis of cross section of beam. Design of riveted, bolted citon curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic forus or plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on sta	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir indation. Strengt Z,ZK beams and sim Cross-sectional of KZ and geometrica	ication. 4 reating and The role of 4 Anning, cult 4 4 a price and a price and by the for 1 2 3 main attent n is also p 3 at of structu h analysis. 4 apple girders characterist 2 al accuracy
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of material paid to metals as 618PZP ension and comprese Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar 618XBBP 620SYSA	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin is timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering explains mechanical properties of structural materials baed on their bonding forces and microstructure it meast important engineering explains mechanical properties of structural materials aded on their bonding forces and microstructure is the odigenamical science. Communication for otheses being of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for of planar shapes. Fiber polygons and chains. Technical Documentation dramatic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Technical Documentation dramatic method for calculation of reactions of statically determinate systems. Beternical diagrams and charts, dimensional arrangement of drawing	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK and welded joir ndation. Strengt Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK	ication. 4 reating and The role of 4 Anning, cult 4 4 a price and 5 4 1 2 3 main atlent h analysis. 2 al accuracy 1 5
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a managetermine the quan 617XBBP 617ZAP 618MTY asic course of mat paid to metals as 618PZP ension and compre Analysis of defle 618SAT General system o rinciple of virtual w 618TED Technical standar 618XBBP 620SYSA troduction to system	tes, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, tearnwork, intercedulation of passenger flows on public regional transport igns. Optimization of line management, lin in trimetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources Ind their importance, work group as a special kind of social group, communication, personal management, modern management, human of the organization. Titan Simulation Internet game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering terials science and engineering mechanical properties of structural materials based on their bonding forces and microstructure the most important engineering mechanical orporetses in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength assion. Bending of beam. Shear stress during beading of beam. Design of riveted, bolted ction curve of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ction curve of beam. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate or fuention and speces. Determination of axial forces in truss constructions. International standardization, technical drawings, representation of technical diagrams and charts, dimensional arrangement of drawing sheets. Bachelor Thesis Seminar Systems Analysis	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK processes, syst	ication. 4 reating and The role of 4 nning, cult 4 a price and a price and a price and 5 1 2 3 main atlent h analysis. 4 4 aprice structu h analysis. 2 al accuracy 1 5 em behavio
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of mate paid to metals as 618PZP ension and comprese Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar 618XBBP 620SYSA troduction to system	ees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interd Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin ti timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources nd their importance, work group as a special kind of social group, communication. Titan Simulation rement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructur the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength ession. Bending of beam. Shear stress during bending of beam. Design of riveted, bolted circin curve of beam. Torsion of circle cross sections of bodies and structures. Assessment of internal forces on statically determinate or flance shale defined of reactions of bodies and structures. Assessment of internal forces on statically determinate or planar shapes. Fiber polygons and chains. Etchnical Documentation distincture of beam. Torsion of eractions of statically determinate systems. Determination of axial forces in truss constructions. Structural Analysis forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on staticall	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK processes, syst	ication. 4 reating and The role of 4 1 4 4 4 1 2 3 1 2 3 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 2 2 3 1 2 3 1 2 3 1 2 2 3 1 2 3 1 5 em behavio
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of material paid to metals as 618PZP ension and comprese Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar 618XBBP 620SYSA toroduction to system and its analysis, s	es, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercor Urban and Regional Rail Transport Systems Irransport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport fines abults of social group, communication, personal management, modern management, hume of the organization. Titan Simulation Irransport for production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Lets 2-8 student groups to produce and compete in the market with the same productity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. Bachelor Thesis Seminar Fundamentals od law Materials Science and Engineering explains mechanical properties of structural materials hased on their bonding forces and microstructure the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength for cores section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for use rahease. Fiber polygons and chails. Technical Documentation free drains and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate or drains schemination of axial forces in truss constructions. Or planar shapes. Fiber polygons and chails. Technical Documentation for axial forces in truss constructions. Contineed tof arwing sheets. Seeminat Serier polygons and cha	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK beams and sim Cross-sectional of KZ and geometrica z,ZK	ication. 4 reating and The role of 4 1 4 4 4 1 2 3 1 2 3 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 2 2 3 1 2 3 1 2 3 1 2 2 3 1 2 3 1 2 3 1 5 em behavid
Human sources 617W1SK Factors affecting evaluation of the 617W1SL uman resources a 617W1ST Titan is a manage etermine the quan 617XBBP 617ZAP 618MTY asic course of mates asic course of mates asic course of mates 618PZP ension and comprese Analysis of defle 618SAT General system of rinciple of virtual w 618TED Technical standar 618XBBP 620SYSA htroduction to system and its analysis, s 620UITS	transport demand, modal-split, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interce Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, line timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing. Sociology of Human Resources nd their importance, work group as a special kind of social group, communication, personal management, modern management, huma of the organization. Titan Simulation tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the same produc tity and capacity of production, plan budgets for marketing. Bachelor Thesis Seminar Fundamentals od law Materials Science and engineering materials, also other major classes of materials based on their bonding forces and microstructure. the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength forces in plane and space. Calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Corbined loading. Stability of compressed bar and buckling. Beam on elastic for arrangement of rawings is experised in thernal forces on statically determinate or k. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Corbined Documentation determinate method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. Corbined Documentation determination of exactions of statically determinate systems. Determination of axial forces in truss constructions. Corbined Documentation determination of exaction	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK	ication. 4 reating and The role of 4 nning, cultu 4 a price and by the for 1 2 3 nain attention 1 3 nt of structu h analysis. 4 accuracy, 1 2 3 nt of structu h analysis. 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 5 em behavic or structura 7
Human sources 617W1SK Factors affecting evaluation of the 617W1SL Juman resources a 617W1ST Titan is a manage termine the quantification 617XBBP 617ZAP 618MTY 618MTY basic course of mate spaid to metals as 618PZP ension and compresent Analysis of defle 618SAT General system of brinciple of virtual w 618TED Technical standar 618XBBP 620SYSA httroduction to system and its analysis, s 620UITS erminology and legent for the standard s	ess, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercedulation of the analysis, choice, evaluation and education of human sources, work adaptation, teamwork, intercedulation denotes and the approximation of the analysis taxks, system identification, system analysis taxks, system identification, system analysis of the analysis.	KZ e networking. C rt preferences. KZ an resources pla KZ t. Students set a of their decision Z Z,ZK e. However the r posites. Attentio Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK beams and sim Cross-sectional of KZ and geometrica Z,ZK processes, syst es, algorithms for Z,ZK	A reating and The role of 4 reating and The role of 4 nning, cultured a price and a price and a price and a price and a so by the for 1 2 3 main attention is also part of structured h analysis. 4 apple girders. The structured h analysis and a ccuracy, 1 5 em behavicor structura 7 communicati

620XBBP	Bachelor Thesis Seminar	Z	1
621W1BS	Unmanned aircraft systems 1	KZ	4
Unmanned Aviatio	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope	erational risks and	operationa
	procedures. Practical flights.		
621W1MP	Matlab for project-oriented study	KZ	4
The subject's sylla	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared a	iccording to
particular examp	les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme	nt of students' Ma	tlab skills.
621W1OH	Airline Business and Operations	KZ	4
The course provide	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organize	ational structure of	companies
various aspects of	heir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation processes	s. It provide
	a basic view of the economic aspects of air transport.		
621W1RZ	Human Resources Management	KZ	4
The position of	human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ment. Internal and	external
environment of hur	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem	nuneration of staff.	Positioning
	dismissal and redundancies of employees. Education of employees. Planning career management.		
621W1TH	Aircraft Technical Handling	KZ	4
Aircraft towing	and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unlo	ading units. Equip	ment for
Da	ssangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and techn	ical progress.	
p,		-	1
621XBBP	Bachelor Thesis Seminar	Z	
	Bachelor Thesis Seminar Basics of Air Transport	KZ	2
621XBBP 621ZALD		KZ	
621XBBP 621ZALD History, definitions,	Basics of Air Transport	KZ Weight, balance, p	erformance
621XBBP 621ZALD History, definitions,	Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. imization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, grout	KZ Weight, balance, p	erformance

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-05-24, time 13:18.