Recomended pass through the study plan

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

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET-LED Part-Time from 2025/26

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Bachelor combined

Note on the pass: zahájení studia 2025/26

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Jeřábek, Alena Kubáčová, Jan Procházka, Vít Fábera, Martin Fiala, Lukáš Svoboda, Tereza Panská Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8B	Z	Z
11CAL1	Calculus 1 Tomáš Třasák, Olga Vraštilová, Magdalena Hykšová, Bohumil Kovář, Ondřej Navrátil Bohumil Kovář Ondřej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	Z	Z
11GIE	Geometry Oldřich Hykš, Pavel Provinský, Šárka Voráčová Oldřich Hykš Oldřich Hykš (Gar.)	KZ	3	2P+2C+12E	Z	Z
11LA	Linear Algebra Magdalena Hykšová, Pavel Provinský, Lucie Kárná, Martina Bečvářová Magdalena Hykšová Martina Bečvářová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
18MTY	Materials Science and Engineering Tomáš Doktor, Jaromír Kylar, Veronika Drechslerová, Nela Krčmářová, Jitka Řezníčková, Jaroslav Valach, Vít Malinovský, Jaromír Kylar Jaroslav Valach Tomáš Doktor (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
18TKK	Technical Drawing and Designing Lukáš Svoboda, Jitka Řezníčková, Vít Malinovský, Jan Šleichrt, Martin Brumovský, Jan Mejstřík, Drahomír Schmidt, Jan Vogl, Jiří Zeisek, Jan Šleichrt Jan Šleichrt (Gar.)	KZ	4	2P+2C+16E	Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8E	Z	Z
12ZADK	Introduction to Transportation Engineering Dagmar Kočárková, Jana Štikarová	Z,ZK	5	12B	Z	Z

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL2	Calculus 2 Magdalena Hykšová	Z,ZK	5	2P+3C+20B	L	Z
14PRG	Programming Jana Kaliková	KZ	2	0P+2C+8B	L	Z
18SAT	Structural Analysis	Z,ZK	4	2P+2C+14B	L	Z
11STAT	Statistics	Z,ZK	4	2P+2C+12B	L L	Z
20SYSA	Systems Analysis	Z,ZK	5	2P+2C+14B	L L	Z
17TEDK	Transport Technology and Logistics	KZ	4	12B	L	Z
21ZALD	Basics of Air Transport	KZ	2	0P+2C+8B	L	Z
12ZTS	Railway Lines and Stations	Z,ZK	4	2P+2C+10B	L L	Z

Number of semester: 3

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JZ1A	Foreign Language - English 1 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tomeček, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka Heřmanová, Eva Rezlerová Lenka Monková (Gar.)	Z	3	0P+4C+10B	Z	Z
14DATS	Database Systems Jan Krčál, Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	Z	Z
11FYZ	Physics Oldřich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vítů, Jana Kuklová Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
12MDE	Transport Models and Transport Excesses Tomáš Padělek, Josef Kocourek	Z,ZK	3	2P+1C+8B	Z	Z
12PPOK	Designing Roads, Highways and Motorways Tomáš Padělek, Josef Kocourek, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10B	Z	Z
18PZP	Elasticity and Strength Tomáš Doktor, Jitka Řezničková, Jan Šleichrt, Josef Jira, Jan Vyčichl, Daniel Kytýř, Ondřej Jiroušek Ondřej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11TGA	Graph Theory and its Applications in Transport Alena Rybičková, Denisa Mocková, Dušan Teichmann Alena Rybičková Alena Rybičková (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
20UITS	Introduction to Intelligent Transport Systems Martin Šrotýř, Martin Langr, Jiří Růžička, Patrik Horažďovský, Vladimír Faltus, Pavel Hrubeš, Kristýna Navrátilová, Eva Hajčiarová Martin Langr	Z,ZK	7	3P+2C+20B	Z	Z

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

List of courses of this pass:

Code	Name of the course	Completion	Credits
11CAL1	Calculus 1	Z,ZK	7
Sequence of real r	unumbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integ	ral, Riemann integi	al, imprope
	Riemann integral. First-order differential equations, linear differential equations.		
11CAL2	Calculus 2	Z,ZK	5
Linea	ar differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	surface integrals.	•
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and elec	tric current.	•
11GIE	Geometry	KZ	3
Differential geom	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory c	of the motion, the v	elocity, and
	acceleration of a particle moving on a curved path.		
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the	ir solvability. Deter	minants an
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificat	ion.	
11STAT	Statistics	Z,ZK	4
Basics of probab	ility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame	tric tests Nonparar	netric tests
	Regression and correlation analysis		
11TGA	Graph Theory and its Applications in Transport	Z,ZK	4
Basic terms of	of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in o	ther scientific disc	iplines.
12MDE	Transport Models and 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 qu	ieues, shock wave	s. Quality o
transport and its	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequ	ences. Improving o	of transport
	safety and fluency.		
12PPOK	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	d speed. Route in r	ural areas.
Range of vision fo	r stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safe	ty device. Crossing	s, junctions
	intersections.		
12ZADK	Introduction to Transportation Engineering	Z,ZK	5
12ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. R	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	Spatial layout of rai	way lines.
	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail t	ransport.	

14ASD	Algorithm and Data Structures	KZ	3
	lyze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algori		_
	solean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - va		•
	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their program	ms.	
14DATS	Database Systems	KZ	2
Basic concepts	of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and	d integrity of data	, database
·	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via t	the WWW.	
14PRG	Programming	KZ	2
The Course Pro	igramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program	nming language i	s expanded
nere so that the p	articipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and search	hing, tuples, sets	, dictionaries
	working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		
15JZ1A	Foreign Language - English 1	Z	3
arammatical Stru	ctures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor	mmunicative skills	s. Elementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
16UDOP	Introduction into Vehicles	Z	2
Vehicles and tran	nsportation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water	r transport. Altern	ative means
	of transport. Lifting equipment and conveyors. Legislation.		
17TEDK	Transport Technology and Logistics	KZ	4
Basic terms in tra	ansport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight trans	sport, organisatio	n of traffic in
each transport i	modus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usi	na various transc	ort modus.
		3	
18MTY	Materials Science and Engineering	Z,ZK	3
18MTY	Materials Science and Engineering naterials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructur	Z,ZK	_
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18MTY Basic course of m	naterials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructur	Z,ZK re. However the n	nain attention
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18MTY Basic course of ms paid to metals	naterials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructural materials have presented, namely ceramics, polymers and comes to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength	Z,ZK re. However the naposites. Attention	nain attention
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