## Recomended pass through the study plan

## Name of the pass: Bachelor Full-Time TET-Common Part of the Study from 2025/26

Faculty/Institute/Others: Department: Pass through the study plan: Bachelor TET Common Part of Study Full-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 full-time Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

Number of se	emester: 1					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala Vít Fábera Vít Fábera (Gar.)	КZ	3	0P+2C+8B	Z	Z
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil <b>Bohumil Ková</b> Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	КZ	3	2P+2C+12B	Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
18MTY	Materials Science and Engineering Jaromír Kylar, Veronika Drechslerová, Jaromír Kylar, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Veronika Drechslerová, Jaromír Kylar Jaroslav Valach Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
18TKK	Technical Drawing and Designing Jitka ezní ková, Vít Malinovský, Jan Šleichrt, Martin Brumovský, Jan Mejst ík, Drahomír Schmidt, Lukáš Svoboda, Jan Vogl, Ji í Zeisek, Jan Šleichrt Jan Šleichrt (Gar.)	κz	4	2P+2C+16B	Z	Z
TV-1	Physical Education	Z	1		Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8B	Z	Z
12ZADY	Introduction to Transportation Engineering Zuzana arská, Dagmar Ko árková, Jana Štikarová Dagmar Ko árková (Gar.)	Z,ZK	4	2P+2C	Z	Z
18STKK	Seminary from Technical Drawing and Designing Jitka ezní ková, Vít Malinovský Jitka ezní ková Jitka ezní ková (Gar.)	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

Number of seme	ster: 2					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL2	Calculus 2 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
14PRG	Programming Alena Kubá ová, Jan Procházka, Martin Fiala, Lukáš Svoboda, Jana Kaliková, Jan Kr ál <b>Jana Kaliková</b> Jana Kaliková (Gar.)	КZ	2	0P+2C+8B	L	Z
18SAT	Structural Analysis Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Jan Šleichrt, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Falta Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14B	6 L	Z

11STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová <b>Pavla Pecherková</b> Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	L	z
20SYSA	Systems Analysis Petr Bureš, Zuzana B linová, Ji í R ži ka, Patrik Horaž ovský Zuzana B linová (Gar.)	Z,ZK	5	2P+2C+14B	L	Z
17TEDL	Transport Technology and Logistics Vit Janoš, Michal Drábek, Zden k Michl, Rudolf Vávra, Stanislav Metelka Zden k Michl Vít Janoš (Gar.)	ΚZ	3	2P+1C	L	z
TV-2	Physical Education	Z	1		L	z
21ZALD	Basics of Air Transport Jakub Hospodka, Tomáš Tlu ho, Ji í Volt, Peter Olexa, Jan Slezá ek, Jakub Trýb, Sébastien Lán, Bo Stloukal	KZ	2	0P+2C+8B	L	z
12ZTS	Railway Lines and Stations Lukáš Týfa, Martin Jacura, Petr Šatra, Tomáš Javo ík, Ond ej Trešl Lukáš Týfa (Gar.)	Z,ZK	4	2P+2C+10B	L	z
14DZT	Digital Support for Railway Lines Martin Brumovský Martin Brumovský Martin Brumovský (Gar.)	Z	0	0P+2C	L	V
21SLD	Seminar of Air Transport Vladimír Plos, Jakub Kraus, Natalia Guskova Vladimír Plos	Z	0	0P+2C	L	V
18SS	Seminary from Structural Analysis Jan Vy ichl	Z	0	0P+2C	L	V
11SSF	Secondary School Physics Course Zuzana Malá Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V

Number of se	emester: 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 Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová,	Z	3	0P+4C+10E	B Z	Z
14DATS	Database Systems Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10E	B Z	Z
11FYZ	Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Pavel Demo, Tomáš Vít <b>Jana</b> Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18E	B Z	Z
12MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek	Z,ZK	3	2P+1C+8E	8 Z	Z
12PPOK	Designing Roads, Highways and Motorways Josef Kocourek, Tomáš Pad lek, Polina Zayats, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10E	B Z	Z
18PZP	Elasticity and Strength Jitka ezní ková, Jan Šleichrt, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Josef Jíra, Ond ej Jiroušek <b>Ond ej Jiroušek</b> Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10E	8 Z	Z
11TGA	Graph Theory and its Applications in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12E	B Z	Z
20UITS	Introduction to Intelligent Transport Systems Ji í R ži ka, Patrik Horaž ovský, Kristýna Navrátilová, Viktor Beneš, Eva Haj iarová, Martin Langr, Vladimír Faltus, Pavel Hrubeš Martin Langr	Z,ZK	7	3P+2C+20E	8 Z	Z
14DPK	Digital Support for Designing of Roads and Highways Drahomír Schmidt, Libor Žídek Drahomír Schmidt Drahomír Schmidt (Gar.)	Z	0	0P+2C	Z	V
11SCFZ	Seminar of Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít <b>Zuzana Malá</b> Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V
18SPP	Seminary from Elasticity and Strength Jan Vy ichl, Tomáš Doktor Jan Vy ichl Jan Vy ichl (Gar.)	Z	0	0P+2C	Z	V

## 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 nu	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integ Riemann integral. First-order differential equations, linear differential equations.	ral, Riemann integr	al, improper
11CAL2	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.	
11FYZ	Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and elec	Z,ZK tric current.	5
11GIE	Geometry	KZ	3
Differential geome	try of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory c acceleration of a particle moving on a curved path.	of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificat		minants and
11SCFZ	Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermody	Z ynamics.	0
11SSF	Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.	Z	0
11STAT	Statistics	Z,ZK	4
	ity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis		1
11TGA Basic terms of	Graph Theory and its Applications in Transport f graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in d	Z,ZK	4 iplines.
12MDE	Transport Models and Transport Excesses	Z,ZK	3
	Traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of quassessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequence of the statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequence of the statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequence of the statistical characteristics of transport.		
12PPOK	safety and fluency. Designing Roads, Highways and Motorways	KZ	3
-	pownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard		-
• •	stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safe intersections.		
12ZADY	Introduction to Transportation Engineering	Z,ZK	4
12ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. Ra	alway 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		way lines.
14ASD	Algorithm and Data Structures	KZ	3
	ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algorithm algorithm to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - v	ariable, branching,	
440470	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra		0
14DATS Basic concepts o	Database Systems f database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and build be a security and the principles of normal forms, relational database design, security and the security and		2 database
	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	_	0
14DPK	Digital Support for Designing of Roads and Highways Seminars possibilities of technical processing problems focused on designing of roads and highways.	Z	0
14DZT	Digital Support for Railway Lines Seminars possibilities of technical processing problems solved in the field of railway lines.	Z	0
14PRG	Programming	KZ	2
-	ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program rticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searc		-
15JZ1A	working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).	Z	2
	Foreign Language - English 1 ures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co		Bementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles		y
16UDOP	Introduction into Vehicles	Z	2
	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and wate of transport. Lifting equipment and conveyors. Legislation.	r transport. Alterna	ative means
17TEDL	Transport Technology and Logistics	KZ	3
Basic terms in tran	sport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight tran odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication us	sport, organisatior	of traffic in
18MTY	Materials Science and Engineering	Z,ZK	3
Basic course of ma	terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructu s the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and cor to degradation processes in materials, to defectoscopy and to main mechanical tests.	ire. However the ma	

18PZP	Elasticity and Strength	Z,ZK	3
Tension and compre	ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a	nd welded joints	of structures.
	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.		
18SAT	Structural Analysis	Z,ZK	4
General system o	f forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate	e beams and sim	ple girders.
Principle of virtual w	ork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.	Cross-sectional c	haracteristics
	of planar shapes. Fiber polygons and chains.		
18SPP	Seminary from Elasticity and Strength	Z	0
Excersise for practi	ce. Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of bean	n. Analysis of defl	ection curve
	of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling.		
18SS	Seminary from Structural Analysis	Z	0
	se. General system of forces. Reactions of mass objects and compound systems. Internal forces on statically determinate beam and	•	
of principle of virtua	al works for calculation of reactions of staticaly determinate systems. Determination of axial forces in truss construction - method of j	oints and method	of sections.
	Geometry of cross sections. Plane fiber polygons.		1
18STKK	Seminary from Technical Drawing and Designing	Z	0
18TKK	Technical Drawing and Designing	KZ	4
2002/04	Systems Analysis	7 71/	5
20SYSA	Systems Analysis	Z,ZK	5
	m sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	,	-
Introduction to syste		processes, syste	em behaviour
Introduction to syste	m sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	processes, syste	em behaviour
Introduction to syste	m sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, trong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab	processes, syste	em behaviour
Introduction to syste and its analysis, s 20UITS Terminology and leg	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, trong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tak tasks. Soft and hard systems, methods for soft system analysis. Introduction to Intelligent Transport Systems islative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of infor	processes, syste oles, algorithms for Z,ZK mation and teleco	r structural
Introduction to syste and its analysis, s 20UITS Terminology and leg	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, trong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tak tasks. Soft and hard systems, methods for soft system analysis. Introduction to Intelligent Transport Systems islative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of inform nciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples	processes, syste oles, algorithms for Z,ZK mation and teleco	r structural
Introduction to syste and its analysis, s 20UITS Terminology and leg systems for ITS. Prin	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, trong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tak tasks. Soft and hard systems, methods for soft system analysis. Introduction to Intelligent Transport Systems islative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of inform nciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples principles of ITS.	processes, syste les, algorithms fo Z,ZK mation and telecc of possible appli	m behaviour or structural 7 mmunication
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