## Recomended pass through the study plan

## Name of the pass: Bachelor Full-Time TET-Common Part of the Study from 2023/24

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET Common Part of Study Full-Time from 2023/24

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 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)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8E	B Z	Z
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	B Z	Z
15DPLG	Transportation Psychology Eva Rezlerová, Jana Štikarová	Z	2	2P+0C+6E	B Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12E	B Z	Z
14KSP	Constructing with Computer Aid Vít Fábera, Radek Kratochvíl Lukáš Svoboda	KZ	2	0P+2C+8E	B 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+10E	3 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+10E	3 Z	Z
18TED	Technical Documentation  Jitka ezní ková, Vít Malinovský <b>Jitka ezní ková</b> Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	Z	Z
TV-1	Physical Education	Z	1		Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8E	3 Z	Z
12ZYDI	Introduction to Transportation Engineering Zuzana arská, Dagmar Ko árková, Jan Kruntorád	Z,ZK	2	1P+1C	Z	Z
18STKK	Seminary from Technical Drawing and Designing  Jitka ezní ková, Vít Malinovský <b>Jitka ezní ková</b> Jitka ezní ková (Gar.)	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

### Number of semester: 2

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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 <b>Magdalena Hykšová</b> Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
14PRG	Programming Alena Kubá ová, Jan Procházka, Martin Fiala, Jana Kaliková, Jan Kr ál, Lukáš Svoboda <b>Jana Kaliková</b> Jana Kaliková (Gar.)	KZ	2	0P+2C+8B	L	Z
18SAT	Structural Analysis Nela Kr má ová, Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Falta, Jan Šleichrt Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14B	L	Z

Z
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## 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 Eva Rezlerová, Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková,	Z	3	0P+4C+10B	Z	Z
14DATS	Database Systems Jana Kaliková, Jan Kr ál <b>Jana Kaliková</b> Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	Z	Z
11FYZ	Physics Old ich Hykš, Zuzana Malá, Pavel Demo, Tomáš Vít , Jana Kuklová <b>Jana</b> Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
12MDE	Transport Models and Transport Excesses  Josef Kocourek, Tomáš Pad lek	Z,ZK	3	2P+1C+8B	Z	Z
12PPOK	Designing Roads, Highways and Motorways  Josef Kocourek, Tomáš Pad lek, Polina Zayats, Petr Kumpošt	KZ	3	1P+2C+10B	Z	Z
18PZP	Elasticity and Strength Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Šleichrt, Ond ej Jiroušek <b>Ond ej Jiroušek</b> Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11TGA	Graph Theory and its Applications in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
20UITS	Introduction to Intelligent Transport Systems Ji í R ži ka, Patrik Horaž ovský, Kristýna Navrátilová, Viktor Beneš, Eva Haj iarová, Martin Langr, Vladimír Faltus, Pavel Hrubeš <b>Martin Langr</b>	Z,ZK	7	3P+2C+20B	Z	Z
14DPK	Digital Support for Designing of Roads and Highways Libor Žídek, Drahomír Schmidt Drahomír Schmidt (Gar.)	Z	0	0P+2C	Z	V
11SCFZ	Seminar of Physics Old ich Hykš, Zuzana Malá, Tomáš Vít , Jana Kuklová <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 n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integra Riemann integral. First-order differential equations, linear differential equations.	al, Riemann integr	al, improper
11CAL2		Z,ZK	5
	Calculus 2 r differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and s		5
			_
11FYZ	Physics  Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electr	Z,ZK ric current.	5
11GIE	Geometry	KZ	3
	try of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of		
441.4	acceleration of a particle moving on a curved path.	7.71	
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications.	•	ninants and
11SCFZ	Seminar of Physics	Z	0
113012	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermody		U
11SSF	Secondary School Physics Course	Z	0
11001	Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.	_	· ·
11STAT	Statistics	Z,ZK	4
	Statistics 	•	-
	Regression and correlation analysis		
11TGA	Graph Theory and its Applications in Transport	Z,ZK	4
	f graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in or		-
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 qui		_
	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.		
12PPOK	Designing Roads, Highways and Motorways	KZ	3
	ownership, 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. Safety		
range or vicion to	intersections.	, acrico. c. ccog	o, janonono,
12ZTS	Railway Lines and Stations	Z,ZK	4
	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. Sp	•	way lines.
	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail tr		
12ZYDI		ansport.	
	Introduction to Transportation Engineering	•	2
·	Introduction to Transportation Engineering on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, pu	Z,ZK	2 ort. Negative
14ASD	Introduction to Transportation Engineering on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, pu impacts of transportation to environment and safety.	Z,ZK	
	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, pulmpacts of transportation to environment and safety.	Z,ZK ublic mass transpo	rt. Negative
	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, pulmpacts of transportation to environment and safety.  Algorithm and Data Structures	Z,ZK ublic mass transpo	ort. Negative
-	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, put impacts of transportation to environment and safety.  Algorithm and Data Structures  ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algorithm.	Z,ZK ublic mass transpo  KZ thms written using	ort. Negative 3 flowcharts,
-	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, pulmpacts of transportation to environment and safety.  Algorithm and Data Structures	Z,ZK ublic mass transpo  KZ thms written using	ort. Negative 3 flowcharts,
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and use basic Boo	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, purimpacts of transportation to environment and safety.  Algorithm and Data Structures  ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algorithen algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - value will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their program Database Systems	Z,ZK ublic mass transpo  KZ thms written using ariable, branching, ms.  KZ	3 flowcharts, loops, they
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14DATS Basic concepts  14DPK  14DZT  14DZT  14KSP  "CAD systems" te and CA systems  14PRG The Course Prog	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, purpose impacts of transportation to environment and safety.  Algorithm and Data Structures  ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algorite an algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - verill learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their program Database Systems  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 to Digital Support for Designing of Roads and Highways  Seminars possibilities of technical processing problems focused on designing of roads and highways.  Digital Support for Railway Lines  Seminars possibilities of technical processing problems solved in the field of railway lines.  Constructing with Computer Aid  m determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common work Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possibi profiles, drawings with raster foundaments).  Programming  ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program riticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and search	Z,ZK ublic mass transpo	3 flowcharts, loops, they  2 database  0  0  2 applications vironment  2 expanded
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16UDOP	Introduction into Valida	7	2
	Introduction into Vehicles	Z	2
venicies and trans	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation.	r transport. Altern	ative means
17TEDL	Transport Technology and Logistics	KZ	3
	isport 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 usi		
18MTY	Materials Science and Engineering	Z,ZK	3
-	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 com		
	to degradation processes in materials, to defectoscopy and to main mechanical tests.		, aa. p
18PZP	Elasticity and Strength	Z,ZK	3
	ression. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a	'	_
onoion and comp.	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.		J. 01. 4014.01
18SAT	Structural Analysis	Z,ZK	4
	of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate		1
=	vork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.	-	-
	of planar shapes. Fiber polygons and chains.		
18SPP	Seminary from Elasticity and Strength	Z	0
	tice. Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam	_	1
_nooroido idi pido	of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling.	/a.yo.o o. do	
18SS	Seminary from Structural Analysis	Z	0
	ise. General system of forces. Reactions of mass objects and compound systems. Internal forces on statically determinate beam and		_
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of principle of virtu	all works for calculation of reactions of staticaly determinate systems. Determination of axial forces in truss construction - method of j		
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