### Recomended pass through the study plan

### Name of the pass: Bachelor TET-DOS Full-Time from 2024/25

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET-DOS Full-Time from 2024/25

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Bachelor 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
614ASD	Algorithm and Data Structures  Jan Mejstřík	KZ	3	0P+2C+8E	Z	Z
611CAL1	Calculus 1 Romana Zibnerová Ondřej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	Z	Z
615DPLG	Transportation Psychology	Z	2	2P+0C+6E	Z	Z
611GIE	Geometry Vít Malinovský Šárka Voráčová (Gar.)	KZ	3	2P+2C+12E	Z	Z
614KSP	Constructing with Computer Aid	KZ	2	0P+2C+8E	Z	Z
611LA	Linear Algebra Romana Zibnerová Martina Bečvářová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
618MTY	Materials Science and Engineering Vit Malinovský Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
618TED	Technical Documentation	KZ	2	1P+1C+8E	Z	Z
TV-1	Physical Education	Z	1		Z	Z
616UDOP	Introduction into Vehicles Zuzana Radová Petr Bouchner (Gar.)	Z	2	2P+0C+8E	Z	Z
612ZYDI	Introduction to Transportation Engineering	Z,ZK	2	1P+1C	Z	Z
618STD	Seminary from Technical Documentation	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

#### 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
611CAL2	Calculus 2 Romana Zibnerová	Z,ZK	5	2P+3C+20B	L	Z
614PRG	Programming	KZ	2	0P+2C+8B	L	Z
618SAT	Structural Analysis	Z,ZK	4	2P+2C+14B	L	Z
611STAT	Statistics	Z,ZK	4	2P+2C+12B	L	Z
620SYSA	Systems Analysis	Z,ZK	5	2P+2C+14B	L	Z
617TEDL	Transport Technology and Logistics	KZ	3	2P+1C	L	Z
TV-2	Physical Education	Z	1		L	Z
621ZALD	Basics of Air Transport	KZ	2	0P+2C+8B	L	Z
612ZTS	Railway Lines and Stations	Z,ZK	4	2P+2C+10B	L	Z
614DZT	Digital Support for Railway Lines	Z	0	0P+2C	L	V

621SLD	Seminar of Air Transport	Z	0	0P+2C	L	V
618SS	Seminary from Structural Analysis	Z	0	0P+2C	L	V
611SSF	Secondary School Physics Course	Z	0	0P+2C	L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V

### 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
615JZ1A	Foreign Language - English 1  Jan Feit	Z	3	0P+4C+10E	B Z	Z
614DATS	Database Systems Ondřej Smíšek Jana Kaliková (Gar.)	KZ	2	1P+1C+10E	B Z	Z
611FYZ	Physics Goce Chadzitaskos Zuzana Malá (Gar.)	Z,ZK	5	2P+2C+18E	B Z	Z
612MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Padělek Josef Kocourek (Gar.)	Z,ZK	3	2P+1C+8E	B Z	Z
612PPOK	Designing Roads, Highways and Motorways Tomáš Padělek Josef Kocourek (Gar.)	KZ	3	1P+2C+10E	Z	Z
618PZP	Elasticity and Strength Tomáš Doktor Ondřej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10E	B Z	Z
611TGA	Graph Theory and its Applications in Transport Denisa Mocková, Dušan Teichmann, Andrea Hrníčková Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12E	B Z	Z
620UITS	Introduction to Intelligent Transport Systems Vladimír Faltus Pavel Hrubeš (Gar.)	Z,ZK	7	3P+2C+20E	B Z	Z
614DPK	Digital Support for Designing of Roads and Highways	Z	0	0P+2C	Z	V
611SCFZ	Seminar of Physics	Z	0	0P+2C	Z	V
618SPP	Seminary from Elasticity and Strength	Z	0	0P+2C	Z	V

## Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
615JZ2A	Foreign Language - English 2	Z,ZK	3	0P+4C+10B	L	Z
616DOKY	Vehicle Technology	Z,ZK	5	2P+2C	L	Z
618KIDY	Kinematics and Dynamics	Z,ZK	4	2P+2C	L	Z
611MSP	Modeling of Systems and Processes	Z,ZK	4	2P+2C+12B	L	Z

## Number of semester: 5

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
622DON	Traffic Accidents Michal Frydrýn, Tomáš Mičunek, Luboš Nouzovský, Tomáš Kohout Luboš Nouzovský Tomáš Mičunek (Gar.)	Z,ZK	6	3P+2C	Z	Z
612ZELP	Railway Operation Tomáš Javořík	Z,ZK	4	2P+2C	Z	Z

## Number of semester: 6

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
622METD	Measurement Methods and Technology in Transportation Luboš Nouzovský	ZK	4	2P+2C	L	Z
612PRMK	Urban Road Traffic and Design	Z,ZK	5	2P+2C	L	Z
612VHD	Public Transport	Z,ZK	5	3P+2C	L	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
611CAL1	Calculus 1	Z,ZK	7
Sequence of real n	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral. Riemann integral. First-order differential equations, linear differential equations.		al, impropei
611CAL2	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 s	urface integrals.	
611FYZ	Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electr	Z,ZK ric current.	5
611GIE	Geometry	KZ	3
	d oblique projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - parame		_
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	ear 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 classification	-	minants and
611MSP	Modeling of Systems and Processes	Z,ZK	4
System and subsys	stem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differen	ntial and differentia	al equations
Linear and nor	nlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function	n. Stability of LTI s	ystems.
	Discretization of continuous systems. System interconnection.		
611SCFZ	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodyn	namics.	
611SSF	Secondary School Physics Course	Z	0
	Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.		
611STAT	Statistics	Z,ZK	4
Definition of probal	bility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation. Te	esting of statistical	hypothesis
Regression and co	prrelation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear reg multiple regression, the use of matrices in regression.	gression, analysis	of variance
611TGA	Graph Theory and its Applications in Transport		
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	of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in ot		· ·
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Basic terms of 612MDE Parameters of the transport and its and 612PPOK Definition, types, Range of vision for 612PRMK Composition of urb 612VHD Importance of puconceptions, opera 612ZELP Legislation in rails 612ZTS	Transport Models and Transport Excesses  traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of que assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.  Designing Roads, Highways and Motorways ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard or stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety intersections.  Urban Road Traffic and Design oran road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport public transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, preparation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning of prepare of infrastrukture (route, stops), preference of public transport, financing.  Railway Operation  way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.	ther scientific disc Z,ZK eues, shock waves ences. Improving of KZ speed. Route in re device. Crossing Z,ZK oposal, roundabo sport. Z,ZK eration of operation and realisation of Z,ZK coperation. Railwa Z,ZK opatial layout of rail	iplines.  3 s. Quality of transport  3 ural areas. s, junctions  5 uts, calming  5 n, network f timetables  4 ay vehicles
Basic terms of 612MDE Parameters of the transport and its and 612PPOK Definition, types, Range of vision for 612PRMK Composition of urb 612VHD Importance of puconceptions, opera 612ZELP Legislation in rails 612ZTS	Transport Models and Transport Excesses  traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of que assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.  Designing Roads, Highways and Motorways ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard or stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety intersections.  Urban Road Traffic and Design oan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety prof traffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of trans  Public Transport  Ublic transport, transport research, evaluation, planning of planning of operation, planning of operation parameters, preparation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning of prepare of infrastrukture (route, stops), preference of public transport, financing.  Railway Operation  way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.  Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. Spanning of operation conceptions, planning of operation.	ther scientific disc Z,ZK eues, shock waves ences. Improving of KZ speed. Route in re device. Crossing Z,ZK oposal, roundabo sport. Z,ZK eration of operation and realisation of Z,ZK coperation. Railwa Z,ZK opatial layout of rail	iplines.  3 s. Quality of transport  3 ural areas. s, junctions  5 uts, calming  5 n, network f timetables  4 ay vehicles
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Basic terms of 612MDE Parameters of the transport and its and 612PPOK Definition, types, Range of vision for 612PRMK Composition of urb 612VHD Importance of puconceptions, opera 612ZELP Legislation in rails 612ZTS Rail transport. Rail transport. Rail 612ZYDI	Transport Models and Transport Excesses traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of que assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.  Designing Roads, Highways and Motorways ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard restopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety intersections.  Urban Road Traffic and Design Dan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profer traffic, precaution for blind & mp; partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, preparation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning of prepare of infrastrukture (route, stops), preference of public transport, financing.  Railway Operation  Railway Operation  Railway track geometry parameters. Route layout of railway lines. Railway tines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. Spreading and carriage points. Railway substructure and superstructure. Spreading and carriage points. Railway lines net and category. Traction in rail transportation in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, put	ther scientific disc Z,ZK eues, shock waves ences. Improving of KZ speed. Route in re device. Crossing Z,ZK oposal, roundabo sport. Z,ZK ration of operation and realisation of Z,ZK operation. Railwa Z,ZK operation. Z,ZK operation. Z,ZK	iplines.  3 s. Quality of fransport  3 ural areas. s, junctions,  5 uts, calming  5 n, network f timetables, 4 ay vehicles  4 way lines.
Basic terms of 612MDE Parameters of the transport and its of 612PPOK Definition, types, Range of vision for 612PRMK Composition of urbour 612VHD Importance of puconceptions, opera 612ZELP Legislation in rails 612ZYDI Role of transportat 614ASD	Transport Models and Transport Excesses traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of que assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.  Designing Roads, Highways and Motorways ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard restopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety intersections.  Urban Road Traffic and Design Dan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession fraffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, prepa ation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning prepare of infrastrukture (route, stops), preference of public transport, financing.  Railway Operation  way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.  Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. Sp. Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail trail transportation to infrastructure. Operating ingening. Traffic survey and traffic prognosis. Introduction to topic of roads, p. impacts of transportation to environment and sa	ther scientific disc  Z,ZK eues, shock waves ences. Improving of  KZ speed. Route in revidence. Crossing  Z,ZK oposal, roundabors sport.  Z,ZK eration of operation and realisation of  Z,ZK coperation. Railwa  Z,ZK cotal allayout of rail ansport.  Z,ZK ublic mass transport.  KZ	iplines.  3 s. Quality of fransport  3 ural areas. s, junctions  5 uts, calming  5 n, network f timetables  4 ay vehicles  4 way lines.  2 ort. Negative
Basic terms of 612MDE Parameters of the transport and its of 612PPOK Definition, types, Range of vision for 612PRMK Composition of urbour 612VHD Importance of puconceptions, opera 612ZELP Legislation in rails 612ZYDI Rail transport. Role of transportat 614ASD Students will be far	Transport Models and Transport Excesses traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of que assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.  Designing Roads, Highways and Motorways ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard restopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety intersections.  Urban Road Traffic and Design oan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety proferral framsport framsport in transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, prepation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning of operation conception, planning of operation conception, planning of prepare of infrastrukture (route, stops), preference of public transport, financing.  Railway Operation  Way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.  Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway lines ontaticion - railway substructure and superstructure. Sp. Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail from the planning. Traffic survey and traffic prognosis. Introduction to topic of roads, puimpacts of transportation to environment and safety.  Algorithm and Data Structures	ther scientific disc  Z,ZK eues, shock waves ences. Improving of  KZ speed. Route in revidence. Crossing  Z,ZK oposal, roundabo sport.  Z,ZK eration of operation and realisation of  Z,ZK coperation. Railwa  Z,ZK experimental layout of rail ansport.  Z,ZK ublic mass transport  KZ problems, propose	iplines.  3 s. Quality of transport  3 ural areas. s, junctions  5 uts, calming  5 n, network f timetables  4 ay vehicles  4 way lines.  2 ort. Negative

614DPK 614DZT 614KSP CAD systems" term of	Database Systems atabase systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and eries, 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.		2
614DPK 614DZT 614KSP CAD systems" term of	eries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via t  Digital Support for Designing of Roads and Highways		
614DPK 614DZT 614KSP CAD systems" term of	Digital Support for Designing of Roads and Highways		database
614DZT 614KSP CAD systems" term of			_
614KSP CAD systems" term o	Seminars possibilities of technical processing problems focused on designing of roads and highways.	Z	0
614KSP CAD systems" term o			
"CAD systems" term o	Digital Support for Railway Lines	Z	0
"CAD systems" term o	Seminars possibilities of technical processing problems solved in the field of railway lines.		
"CAD systems" term o	Constructing with Computer Aid	KZ	2
=	letermination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common work		1
	ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possibi		
	profiles, drawings with raster foundaments).		
614PRG	Programming	KZ	2
	ا ent, methods of structured programming, high-level programming languages, basics of C programming languages (types, variables		1
Algoritiin developine		s, conditions, cycli	es, arrays,
0450010	functions), programming techniques, complexity.		_
615DPLG	Transportation Psychology	Z	2
	and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle constr		jical aspec
	ute and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in tra	insport operation.	
615JZ1A	Foreign Language - English 1	Z	3
Grammatical structure:	s and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con	nmunicative skills.	Elementa
sty	distics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles o	f rhetoric.	
615JZ2A	Foreign Language - English 2	Z,ZK	3
	s and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con	,	_
	distics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		
616DOKY		Z,ZK	5
	Vehicle Technology	,	
rechnical nomeno	lature in transportation technology. Vehicle in legislation. Design. Operation. Influence on environment. Vehicle and ecology. Tractio	_	ะแอแดร -
	combustion engines, electric engines, change of energy principles. Powertrain construction. Power transmission. Brake system		
616UDOP	Introduction into Vehicles	Z	2
lehicles and transpor	tation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water	transport. Alterna	ative mear
	of transport. Lifting equipment and conveyors. Legislation.		
617TEDL	Transport Technology and Logistics	KZ	3
Basic terms in transpo	rt technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight trans	sport, organisation	of traffic
each transport modu	s, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usin	ng various transpo	ort modus.
618KIDY	Kinematics and Dynamics	Z,ZK	4
	a line and a curve. Kinematics of rigid body. Kinematics of the point mass and the system of mass points. Dynamics of a mass point	,	
<del>-</del>	Wethod of Newton. D'Alembert principle. Free and forced vibration with one degree of freedom. Viscous damping. Impact theory. In	=	-
oquation of motion:	vibration with two degrees of freedom.	troduction to the t	ooidtioii oi
C10MTV	-	7.71/	
618MTY	Materials Science and Engineering	Z,ZK	3
	als science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructur		
s paid to metals as the	e most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com	posites. Attention	is also pa
	to degradation processes in materials, to defectoscopy and to main mechanical tests.		
618PZP	Elasticity and Strength	Z,ZK	3
Tension and compress	ion. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, boltec	I and welded joint	of structur
Analysis of deflection	on curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic fou	ndation. Strength	analysis.
618SAT	Structural Analysis	Z,ZK	4
	pres in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate	,	le girders.
=	. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.		-
	of planar shapes. Fiber polygons and chains.		
618SPP	· · · · · · · · · · · · · · · · · · ·	Z	0
	Seminary from Elasticity and Strength  Tanaian and compression Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Shoar stress during bending of beam Pending of beam Pending of beam Shoar stress during bending of beam Pending of	_	_
Excersise for practice	Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling.	Analysis of defle	cuon curv
21222			
618SS	Seminary from Structural Analysis	Z	0
	General system of forces. Reactions of mass objects and compound systems. Internal forces on statically determinate beam and	-	
of principle of virtual v	vorks for calculation of reactions of staticaly determinate systems. Determination of axial forces in truss construction - method of jc	oints and method	of sections
	Geometry of cross sections. Plane fiber polygons.		
	Seminary from Technical Documentation	Z	0
618STD	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional	and geometrical	accuracy,
	arrangement of drawing sheets.	•	•
		KZ	2
Technical standards	Technical Documentation		I
Technical standards 618TED	Technical Documentation		www.uiduv.
Technical standards 618TED	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional	i and geometrical	,,
Technical standards 618TED Technical standards	international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.		
Technical standards  618TED  Technical standards  620SYSA	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis	Z,ZK	5
Technical standards  618TED  Technical standards  620SYSA  Introduction to system	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	Z,ZK processes, system	5 m behavio
Technical standards  618TED  Technical standards  620SYSA  Introduction to system	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis  sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab	Z,ZK processes, system	5 m behavio
Technical standards  618TED  Technical standards  620SYSA  ntroduction to system and its analysis, stro	standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis  sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab tasks. Soft and hard systems, methods for soft system analysis.	Z,ZK processes, syster les, algorithms for	5 m behavio
Technical standards  618TED  Technical standards  620SYSA  Introduction to system	, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis  sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab	Z,ZK processes, system	5 m behavio
Technical standards  618TED Technical standards  620SYSA Introduction to system and its analysis, stro  620UITS	standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis  sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab tasks. Soft and hard systems, methods for soft system analysis.	Z,ZK processes, system les, algorithms for Z,ZK	5 m behavio r structural
Technical standards  618TED Technical standards  620SYSA troduction to system and its analysis, stro  620UITS	standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional arrangement of drawing sheets.  Systems Analysis sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab tasks. Soft and hard systems, methods for soft system analysis.  Introduction to Intelligent Transport Systems	Z,ZK processes, system les, algorithms for Z,ZK	5 m behavio r structural

621SLD	Seminar of Air Transport	Z	0				
History, definition	ons, terminology, basic rules. VFR / IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio na	vigation. Weight, b	alance,				
performance. Flig	ht planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic ma	ınagement, ground	l handling,				
	security. Air crew. Airlines and economics. Space technologies.						
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, p	erformance.				
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.						
622DON	Traffic Accidents	Z,ZK	6				
Introduction to Roa	d Accidents and Forensic Expertise; Rail, Water and Air Accidents; Road Accident Documentation and Documentation Technology; A	ccident Data Reco	rders - EDR				
Systems; Road Acc	ident Trace Analysis and Fake Accidents; Simulation Programmes for Road Accident Analysis; Pedestrian and Cyclist Accidents; Veh	icle technologies a	and systems				
and autonomous ve	phicles; Safe road layout and collision diagrams; Not giving right of way; Technical defects of vehicles; Restraints - passive road safety	y; Accidents at leve	el crossings;				
	Prevention (traffic education, awareness, repression)						
622METD	Measurement Methods and Technology in Transportation	ZK	4				
Measurement me	ethods in transport, their meaning and use. Geodetic basics in Czechia. Angular, length and height measurements. Principles of map	ping, accuracy and	errors of				
geodetic measurem	ents. Surveying and setting out. Challenges of localization, navigation and Global Navigation Satellite Systems. Laser scanning (terre	estrial, mobile, UA	/). Technical				
	photography and photogrammetry. Dynamic measurements of vehicles. High-speed cameras.						
TV-1	Physical Education	Z	1				
TV-2	Physical Education	Z	1				
TVKLV	Physical Education Course	Z	0				
TVKZV	Physical Education Course	Z	0				

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-11-29, time 17:01.