

# Study plan

## Name of study plan: TRELPASO nav.prez.15/16

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Transportation and Logistic Systems

Garantor of the study branch: prof. Dr. Ing. Miroslav Svítek, dr. h. c.

Program of study: Technology in Transportation and Telecommunications

Type of study: Follow-up master full-time

Required credits: 25

Elective courses credits: 25

Sum of credits in the plan: 50

Note on the plan:

Name of the block: Semestrální projekt

Minimal number of credits of the block: 6

The role of the block: ZP

Code of the group: XNTR1 DP 1.S. 11/12

Name of the group: Dipl.práce ELPASO 1.sem.od 11/12

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 1 course

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
17XNT1	CTU Thesis 1	Z	6	0+6	Z	ZP

Characteristics of the courses of this group of Study Plan: Code=XNTR1 DP 1.S. 11/12 Name=Dipl.práce ELPASO 1.sem.od 11/12

17XNT1	CTU Thesis 1				Z	6
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Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 19

The role of the block: P

Code of the group: 1.S.NPTRELPASO 11/12

Name of the group: 1.sem.nav.prez.TR ELPASO od 11/12

Requirement credits in the group: In this group you have to gain 19 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 19

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
12TDP	Traffic Flow Theory Vladimír Faltus	Z,ZK	3	2P+1C	Z	P
17ILO	Information Technology in Logistics	Z,ZK	4	2+2	Z	P
17LGY	Logistics Systems	Z,ZK	6	3+2	Z	P
17PJM	Project Management	ZK	2	2+0	Z	P
11MME	Mathematical Models in Economics	KZ	2	1+1	Z	P
12DZP	Transport and Environment Kristýna Neubergová	Z	2	2P+0C	Z	P

Characteristics of the courses of this group of Study Plan: Code=1.S.NPTRELPASO 11/12 Name=1.sem.nav.prez.TR ELPASO od 11/12

12TDP	Traffic Flow Theory	Z,ZK	3
Mobility and associated human problems. Basic traffic parameters and their measurement. Estimation of quality of services. Theoretical fundamentals and applications of mathematical models. Macroscopic, statistical and microscopic models. Theory of shock waves, queuing theory and special theory of traffic phenomena. Relation between traffic models and traffic flow management.			
17ILO	Information Technology in Logistics	Z,ZK	4
Basics of bar code technology. Basics of radiofrequency identification. Product numbering systems for intensive distribution. Packaging hierarchy and identification models in supply chain. Identification of trading partners in the supply chain. Basics of data communication in logistics. National and global multidisciplinary standards for electronic data interchange. ERP Systems used in retail and fast moving consumer goods.			
17LGY	Logistics Systems	Z,ZK	6
Transport in logistics, intermodal transport, electronic toll systems in road transport, supply chain management, logistics partnership and alliances, logistic service of territory, dangerous goods in logistics, management and marketing in logistics, identification systems in logistics, IT in logistic systems and transportation.			
17PJM	Project Management	ZK	2
Project and planning, project content, management and project task organization. Technical and economical assessment criterions. Criterion function and its components. Organization and management of the project run.			
11MME	Mathematical Models in Economics	KZ	2
Stochastic processes and their classification, Poisson process, birth and death process, queueing models and their classification, graph and related terminology, cycles in a graph and their detection, the shortest and longest way through a graph, critical path through a graph, extreme of a function of many arguments, free and constrained extremum, Lagrange multipliers, numerical methods in optimization, linear programming and its application.			
12DZP	Transport and Environment	Z	2
This course aims the impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands. The noise measury is part and parcel of this course.			

### List of courses of this pass:

Code	Name of the course	Completion	Credits
11MME	Mathematical Models in Economics	KZ	2
Stochastic processes and their classification, Poisson process, birth and death process, queueing models and their classification, graph and related terminology, cycles in a graph and their detection, the shortest and longest way through a graph, critical path through a graph, extreme of a function of many arguments, free and constrained extremum, Lagrange multipliers, numerical methods in optimization, linear programming and its application.			
12DZP	Transport and Environment	Z	2
This course aims the impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands. The noise measury is part and parcel of this course.			
12TDP	Traffic Flow Theory	Z,ZK	3
Mobility and associated human problems. Basic traffic parameters and their measurement. Estimation of quality of services. Theoretical fundamentals and applications of mathematical models. Macroscopic, statistical and microscopic models. Theory of shock waves, queuing theory and special theory of traffic phenomena. Relation between traffic models and traffic flow management.			
17ILO	Information Technology in Logistics	Z,ZK	4
Basics of bar code technology. Basics of radiofrequency identification. Product numbering systems for intensive distribution. Packaging hierarchy and identification models in supply chain. Identification of trading partners in the supply chain. Basics of data communication in logistics. National and global multidisciplinary standards for electronic data interchange. ERP Systems used in retail and fast moving consumer goods.			
17LGY	Logistics Systems	Z,ZK	6
Transport in logistics, intermodal transport, electronic toll systems in road transport, supply chain management, logistics partnership and alliances, logistic service of territory, dangerous goods in logistics, management and marketing in logistics, identification systems in logistics, IT in logistic systems and transportation.			
17PJM	Project Management	ZK	2
Project and planning, project content, management and project task organization. Technical and economical assessment criterions. Criterion function and its components. Organization and management of the project run.			
17XNT1	CTU Thesis 1	Z	6

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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