EDUCATIONAL INSTITUTION: KLAIPĖDA STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF TECHNOLOGIES

STUDY PROGRAMME: TECHNOLOGY OF LAND TRANSPORT NAME OF THE SUBJECT: INFORMATION TRANSPORT SYSTEMS

				Struct	ure***	Total		
Group of the subject*	Type of the subject**		Т	P	C	I	number of hours	Number of credits
SF	A	Full-time studies (FT)	30	9	3	38	80	3
	A	Part-time studies (PT)	12	6	24	38	00	3

<sup>\*</sup>Group of the subject: GS — general study subjects; SF — subjects of the study field.

## Is it necessary to prepare for the studies of the subject? Unnecessary

#### Annotation

The subject analyses SWOT analysis (strengths, weaknesses, opportunities and threats) of the performed installation of ITS in Lithuania, discusses the potential technical solutions of ITS installation, ITS planning and funding, overviews measures of ITS implementation in Lithuania until 2013 and investments that are necessary for the implementation of such measures, as well as the Intelligent Transport System, which is pretty new discipline, having different levels of acceptability, involvement and local adaptation in various countries. Transport specialists have to understand their opportunities and the best ways to implement them clearly. ITS contains all transport industries, taking into account all dynamically interoperable elements of the transport system, i.e. vehicles, infrastructure, a driver and a user.

The connection of results of the study programme with results of the study subject and study methods, as well as evaluation methods of the learning achievements

3. A student will be able to assess the structure of a transport system, its elements and their interoperability by designing technological processes of freight transport.  3.2. A student will be able to determine impact of the information transport systems on the flows of cargoes and passengers.  7. A student will be able to manage technological process of shipment optimally by assessing conditions of freight transport, processes in the logistics system, efficiency of mechanisms performing loading works and technical condition of vehicles.  3.1. A student will be able to present information transport systems, their advantages and devalogment transport systems, their advantages and development opportunities.  3.2. A student will be able to determine impact of the information transport systems on the flows of cargoes and passengers.  7. A student will be able to manage technological process of shipment.  7. A student will be able to manage technological process of shipment transport, processes in the logistics system, efficiency of mechanisms performing loading works and technical condition of vehicles.  3.1. A student will be able to present information transport systems, their advantages and davantages and development opportunities.  3.2. A student will be able to manage technological process of shipment.  7.1. A student will be able to select new information transport systems by designing technological processes of shipment.  7.2. A student will be able to select new information transport systems by designing technological processes of shipment.  8. An involving lecture, situation analysis, presentation of individual works, an individual works (1-3), presentation of individual works (1-5), p	Results of the study	Results of the study	Study methods	Evaluation methods of the			
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<sup>\*\*</sup>Type of the subject: C - compulsory subject; A - optional subject (alternative), FE - freely elective subject.

<sup>\*\*\*</sup>Structure: T — theory; P — seminars, workshops, laboratory works; C — consultations; I — individual work.

Contents and scope of the subject

Contents and scope of the subject								1
		nber o			nber o			Total
Topic name and content description		tact ho	,		tact ho		I	number
		T for			T for			of
1 Company of the information greaters Drivers	<b>T</b> 2	P	C	T	P	C	2	hours
1. Concept of the information system. Primary	2	-	-	1	-	1	2	4
components and functions of information system.								
Description of the information system.	2					2	3	5
2. Logistics and resource management of "ArcGIS"				-	_	2	3	3
software <b>solution</b> , <b>as well as its opportunities An individual work No 1.</b> Logistics and data analysis of								
resource management.  3. An overview of historical development of the	2			1		1	2	4
information system. Development of information		_	_	1	_	1	2	+
processing. An automated design. Production control.								
Service sector. Development of information transport								
technologies and systems								
An individual work No 2. Analysis of information								
transport systems.								
4. Processing of transport information. Information	2	_	_	1	_	1	3	5
processes. Information codes. Databases. An integrated	~			1		*		
processing system of transport information. Electronic data								
processing.								
5. Peculiarities of information system implementation	2	2	-	1	1	2	2	6
in the transport undertaking. Design of information								
systems. Hardware of information system. Software of								
information system. Impact of information systems on the								
transport undertaking an its management. Potential								
problems of information system implementation in the								
undertaking.								
Workshop No 1. Operation and comparative analysis of								
digital and analogue tachographs								
<b>6. Information transport systems.</b> Classification of	4	2	-	2	1	3	5	11
information transport systems. Electronic logistics. Online								
electronic transport exchange. Information transit systems.								
"GALILEO" satellite system. Presentation of "ArcGIS"								
software platform and its opportunities								
Workshop No 2. Work with "ArcGIS" software.		2		1		2	2	0
7. Information systems of freight transport	2	3	-	1	2	2	3	8
undertakings. Order fulfilment system of freight								
transport. Application of satellite systems used to track freight transport around the world. Satellite systems used								
to track and control vehicles in Lithuania. Route planning								
software for transport undertakings. Other software used in								
the freight transport undertakings. Navigation, tracking of								
vehicle locations in real-time and overview of travel								
history;								
Workshop No 3. Analysis of satellite tracking systems,								
performed by applying "ArcGIS" software.								
Workshop No 4. Route planning by using "ArcGIS"								
software								
8. Information systems of passenger transport	2	_	_	1	_	1	2	4
undertakings Organisation of public transport system.	~			1		1		
Importance of research of urban transport for the								
information systems. Work modelling of passenger								
transport by taxi cars. Electronic ticket of the public								
transport.								
9. Information systems of freight forwarding	2	-	-	-		2	2	4
undertakings. Information factors applied in the freight								
forwarding undertakings. International information								
systems of the freight forwarding undertakings.								
10. Information management systems of transport	2	2	-	1	2	1	2	6

terminals. Information logistics systems, used to manage freight terminals. Electronic gate control system.  Warehouse management systems.								
Workshop No 5. Analysis of "KIPIS" software								
<ul><li>11. Information systems of rail transport. Development of information systems. Information technologies and systems, used for freight transport.</li><li>An individual work No 2. Analysis of information</li></ul>	4	-	-	1	-	3	2	6
transport systems, applied in the rail transport.								
12. Information systems of multimodal transport.	2	-	-	1	-	1	3	5
Systems used in the multimodal transport. Types of								
information systems of multimodal transport.								
13. Intelligent transport management systems.  Overview of intelligent transport systems. Areas of use and relevance of intelligent transport systems.  An individual work No 3. Analysis of intelligent transport	2	-	-	1	-	1	2	4
systems								
Preparation for the examination	-	-	3	-	-	3	5	8
Total number of hours	30	9	3	12	6	24	38	80

Assessment system of results of the subject studies

# Assessment criteria of results of the study subject

A student presents information transport systems, their advantages and development opportunities in various modes of transport.

A student assesses impact of information transport systems on the performance of freight and passenger technological process.

A student selects the latest and the most advanced information transport systems in order to perform technological process of shipment.

A student assesses safety and quality of applied information transport systems in the shipment processes.

## **Procedure of evaluation**

A ten-point criterial grading system and cumulated grading are applied.

$$\mathbf{IKV} = \sum_{i}^{n} x_{i} \times k_{i} ,$$

Where:

n – number of interim assessments,

Xi – evaluations for interim assessments and examination,

ki – weighted coefficients of interim assessments and examination.

$$IKV = X_1 \cdot 0.2 + X_2 \cdot 0.2 + X_3 \cdot 0.2 + X_4 \cdot 0.4,$$

Where:

 $X_1$  – grading average (0.2) of 5 practical works;

 $X_2$  – grading average (0.2) of 3 seminars;

 $X_3$  – grading average (0.2) of 3 individual works;

 $X_4$ — evaluation of examination (0.4).

# Recommended literature and other information sources

	Primary literature and information sources					
		Number	Number of copies			
No	Literature and information sources	At the library of the Faculty of Technologies	At other libraries of Klaipeda State University of Applied Sciences			
1.	Batarlienė N. (2011). Information transport systems. Vilnius, Technika	8 E-book	2			
	Keršys A. (2013). Darni transporto plėtra. Lietuvos edukologijos universiteto leidykla.	E-book E-book	-			
2.	Baltoji knyga: Grūstys – netolygaus transporto rūšių pasiskirstymo	-	-			

151

	pasekmė (2000). Briuselis		
3.	Bocij P., Chaffey D., Greasley A., Hickie S. (2003). Business	1	1
	Information Systems. Technology, Development and Management for the		
	e-business. London: Harlow.		

	Additional literature and information sources				
No	Literature and information sources				
1.	Jarašiūnienė A. (2008). Intelektualiosios transporto sistemos. Vilnius, Technika				
2.	Ilgalaikė (iki 2025 m.) Lietuvos transporto sistemos plėtros strategija. Susisiekimo Ministerija				
3.	LR Elektroninių ryšių įstatymas. Lietuvos Respublikos seimas				

Description of the subject	was propared by	
Lecturer	was prepared by.	Vida Jokubynienė
(Position)	(Signature)	(Academic degree, name and surname)