BASIC INFORMATION:

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING	
Chair	Department of Organization and Economics of Traffic	
Course/modul		
Code	2.11.06.09.001.	**Reversible and green waste logistics material**
ETCS credits	5	

COURSE TYPE:

Functional Area	Interdisciplinary
Level of Abstraction	Professional-applicative
Course Type - Obligation	Upper-middle

COURSE REGISTRATION:

Scientific Field	2.	Engineering and technology
Scientific Area	2.11.	Other engineering and technology
Narrow Scientific Field	2.11.06.	Traffic
Scientific subfield	2.11.06.09.	Interdisciplinary programs and qualifications involving traffic

COURSE DESCRIPTION:

Educational goals	Acquisition of theoretical and practical knowledge about green logistics, its relation to reversible logistics, as a response to increased environmental requirements, the acquisition of critical ability to analyze the content of reversible and green logistics, as well as production as well as waste materials, planning and managing the development of individual logistics functions and activities aimed at improving the quality of green logistics services and reversible logistics.
Competences/ educational outcomes:	By successfully acquiring the knowledge and skills planned in the curriculum for this subject the student will be able to: thorough understanding of green and reversible logistics of production and waste materials and their functions; the ability to connect knowledge from different logistics domains with environmental ones requirements and needs and; the ability to solve the tasks of green and reversible production logistics and waste materials.

Course content	Defining green and reversible logistics of production and waste materials; Defining the basic activities and contribution of waste material recycling. Basic logistic activities in the processes of dealing with return flows of production material. Basic logistics activities in return handling processes flows of waste materials (identification, collection, separation, transport, recycling, storage and deposit); Basics of waste recycling processes material. Logistic activities at places of origin, places of recycling, places reuse-reuse, and at disposal sites for depositing or destruction waste materials; Reversible logistics of flows of other waste materials (solid waste; waste paper; waste glass; waste plastics; waste motor vehicles; construction waste; electrical and electronic waste).

COURSE METRICS:

ETCS	Teaching activities (hours)					Individual work		TOTAL Hours of work
	Contact lessons	Exercises and trainings	Seminar and stud. papers	Pedagogical workshops	Profess. practice	Individual. and group learning	Source research	
5	45			24		69	12	150

ACCESS CONDITION

2.03.10.03.019	Logistics and forwarding

COURSE METHODOLOGY

Lectures, auditory exercises and consultations.

TEACHING LANGUAGES

English

STUDENT WORK EVALUATION

No.	Type of Evaluation	Partial/ Final	Elective/ Mandatory	Percentage of participation
01	Participation in Lecture Interactions Activity	pre-exam obligation	Mandatory	20 %
02	Seminary work	pre-exam obligation	Mandatory	35 %
03	Exam activities – final test	final	Mandatory	45 %

LITERATURE

No.	Author	Publication Title	Publisher	Edition Year
1.	J.P. Lange	Managing Plastic Waste—Sorting, Recycling, Disposal, and Product Redesign	ACS Publication	2021