

Title of the course:	The impact of modern logistics on the global economy		
Course ID:	VE-GMT019		
Level of education:	Erasmus	Academic semester:Spring	Optional
Professor's name:	Ferenc Korsós-Schlesser	Academic title:	
Hours per semester:	26 (2 hours per week)	Credits:	4
Exam:	Case studies and oral exam	Pre-requisites:	none

Aims of the course

This comprehensive 14-week logistics course delves into the core aspects of modern supply chain management. Students will explore the fundamentals of logistics and global trade, examining how these principles shape international commerce. The course then shifts focus to technological advancements, covering digital transformation in logistics operations. Sustainable practices and green logistics are addressed, reflecting the growing importance of environmental considerations. Risk management and supply chain resilience form a critical component, preparing students for real-world challenges. The course concludes with an exploration of innovations in transportation and emerging technologies, offering insights into the future of logistics. Through this structured approach, students gain a holistic understanding of logistics, from foundational concepts to cutting-edge developments in the field.

Course outline

1. Introduction to Logistics and Supply Chain Management
2. Key Components of Logistics Systems
3. Global Logistics and International Trade
4. Digital Technologies in Logistics
5. Data Analytics and Big Data in Supply Chain Management
6. Automation and Robotics in Logistics Operations
7. Introduction to Green Logistics
8. Sustainable Supply Chain Management Strategies
9. Measuring and Reducing Carbon Footprint in Logistics
10. Supply Chain Risk Management
11. Building Resilient Supply Chains
12. Case Studies in Supply Chain Disruptions and Recovery
13. Advancements in Transportation Methods and Multimodal Transport
14. Emerging Technologies: Drones, Autonomous Vehicles, and Future Trends

Requirements and assessment

Classroom activity 20 %
 Case studies (home assignments) 40%
 Final exam (multiple choice plus one essay) 40%

Readings:

The suggested literature is always presented in the classes from publications related to the current case study.