

Basic information about the subject (independent of the cycle)

Module name	Fundamentals of Logistics and Supply Chain Management
Erasmus code	
ISCED code	
Language of instruction	English
Website	
Prerequisites	Basic knowledge in Economics, Management, International Economic Relations.
ECTS points hour equivalents	<p>Contact hours (work with an academic teacher): 20 h</p> <p>Total number of hours with an academic teacher: 20 h</p> <p>Number of ECTS points with an academic teacher: 2</p> <p>Non-contact hours (students' own work): 30 h</p> <p>Total number of non-contact hours: 30 h</p> <p>Number of ECTS points for non-contact hours 2</p> <p>Total number of ECTS points for the module: 4</p>
Educational outcomes verification methods	Presentation, discussion, questions and answers, exercises, test.
Description	<p>Companies are today facing increasing levels of competitive pressure and difficulty with regard to maintaining and improving profitability. The management of these companies are being forced to seek and implement innovative strategies with which to advance their company's competitive advantage as well as their profitability. As companies find themselves under growing pressure from both customers and shareholders to seek ways in which to decrease their costs while at the same time increasing performance, they are forced to find ways in which they may improve the efficiency and effectiveness of their operations. These pressures are increasingly impacting the way in which companies, and their customers, view logistics activities. Logistics is playing more and more of an important role in company performance, in particular for companies seeking to increase their competitive advantage as the part of global supply chains.</p> <p>The module covers the knowledge in the area of:</p> <ol style="list-style-type: none"> 1. Defining Logistics. What is Logistics and why it is so important? 2. Understanding inbound and outbound logistics. 3. The growing role of reverse logistics. 4. Circular Economy and Logistics of the Future. 5. Transportation. Modes of transport in international logistics operations. 6. Transportation and Forwarding services. 7. Storage and inventory management. 8. Global procurement management.

	<p>9. Distribution management</p> <p>10. Integrating Logistics into Global Supply Chains.</p> <p>11. Logistical Customers Service. Planning, implementation and controlling. Key Performance Indicators in Customer Service.</p> <p>12. Logistics of Manufacturing Processes. Lean & Six Sigma in manufacturing businesses.</p> <p>13. International conventions and commercial rules in global logistics operation.</p> <p>14. Information Managements in Logistics Operations and Supply Management.</p> <p>15. Innovations in Logistics. Blockchain technology, artificial and augmented intelligence, advanced analytics, automation, Real-Time Supply Chain Visibility, Autonomous Vehicles, Warehouse Robotics.</p>
Reading list	<ul style="list-style-type: none"> ▫ Coyle, J.J., Bardi, E.J., Langley, J., <i>The Management of Business Logistics: A Supply Chain Perspective</i>, Southwestern, Thomson Learning, 2003. ▫ Shapiro, J.F., <i>Modeling the Supply Chain</i>, Duxbury, Thomson Learning, 2001. ▫ <i>Global Logistics - New Directions in Supply Chain Management</i>, Donald Waters (ed.), 6th edition, London 2010. ▫ <i>Global Logistics For Dummies®</i>, The Atrium, Southern Gate, Chichester, UK 2017. ▫ Martin Christopher, <i>Logistics and supply chain management: creating value-adding networks</i>, Financial Times, Harlow, UK, 2010.
Educational outcomes	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> • Student identifies logistics system structures at an enterprise and all levels of a supply chain. • Student defines processes occurring in the logistics systems of enterprises and in supply chains. • Student is aware of tools and techniques used in domestic and international logistics operations management. • Student is aware of costs and expenses of domestic and international logistics operations. <p>SKILLS</p> <ul style="list-style-type: none"> • Student is able to analyze problems and formulate solutions for business logistics operation in an enterprise and supply chain. • Student is able to formulate solutions for selected problems and dilemmas in supply chain management processes. • Student is able to identify probable consequences of logistic decisions based on standard methods supporting decision making. <p>ATTITUDES</p>

	<ul style="list-style-type: none"> • Student is aware of importance of logistics management in an enterprise and supply chain. • Student is aware of the tools and methods used for effective logistics operation management. • Student is aware of technological changes and innovations in the field of logistics and their impact on the future of this sphere of the global economy.
Practice	Exercises during classes related to separate subjects of a lesson.

Information about classes in the cycle

Website	
Educational outcomes verification methods	Test, discussion, questions and answers.
Comments	
Reading list	<ul style="list-style-type: none"> ▫ Coyle, J.J., Bardi, E.J., Langley, J., <i>The Management of Business Logistics: A Supply Chain Perspective</i>, Southwestern, Thomson Learning, 2003. ▫ Shapiro, J.F., <i>Modeling the Supply Chain</i>, Duxbury, Thomson Learning, 2001. ▫ <i>Global Logistics - New Directions in Supply Chain Management</i>, Donald Waters (ed.), 6th edition, London 2010. ▫ <i>Global Logistics For Dummies®</i>, The Atrium, Southern Gate, Chichester, UK 2017. ▫ Martin Christopher, <i>Logistics and supply chain management: creating value-adding networks</i>, Financial Times, Harlow, UK, 2010.
Educational outcomes	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> • Student identifies logistics system structures at an enterprise and all levels of a supply chain. • Student defines processes occurring in the logistics systems of enterprises and in supply chains. • Student is aware of tools and techniques used in domestic and international logistics operations management. • Student is aware of costs and expenses of domestic and international logistics operations. <p>SKILLS</p> <ul style="list-style-type: none"> • Student is able to analyze problems and formulate solutions for business logistics operation in an enterprise and supply chain. • Student is able to formulate solutions for selected problems and dilemmas in supply chain management processes. • Student is able to identify probable consequences of logistic decisions based on standard methods supporting decision making.

	ATTITUDES <ul style="list-style-type: none"> • Student is aware of importance of logistics management in an enterprise and supply chain. • Student is aware of the tools and methods used for effective logistics operation management. • Student is aware of technological changes and innovations in the field of logistics and their impact on the future of this sphere of the global economy.
A list of topics	<p>The module covers the knowledge in the area of:</p> <ol style="list-style-type: none"> 1. Defining Logistics. What is Logistics and why it is so important? 2. Understanding inbound and outbound logistics. 3. The growing role of reverse logistics. 4. Circular Economy and Logistics of the Future. 5. Transportation. Modes of transport in international logistics operations. 6. Transportation and Forwarding services. 7. Storage and inventory management. 8. Global procurement management. 9. Distribution management 10. Integrating Logistics into Global Supply Chains. 11. Logistical Customers Service. Planning, implementation and controlling. Key Performance Indicators in Customer Service. 12. Logistics of Manufacturing Processes. Lean & Six Sigma in manufacturing businesses. 13. International conventions and commercial rules in global logistics operation. 14. Information Managements in Logistics Operations and Supply Management. 15. Innovations in Logistics. Blockchain technology, artificial and augmented intelligence, advanced analytics, automation, Real-Time Supply Chain Visibility, Autonomous Vehicles, Warehouse Robotics.
Teaching methods	Presentation, discussion, questions and answers, exercises
Assessment methods	Test, discussion, questions and answers.

Lecturer / Trainer: Sergiusz Kuczyński