

## 9. Innovations and Technology in Logistics

<b>1. Module Title</b>	<b>Innovations and Technology in Logistics</b>	<b>2. Module Code</b>	
<b>3. Academic Year, Semester, Module Status</b>	2022-2023 Spring semester, Full-time		
<b>4. Aims and Learning Outcomes</b>	<p>The outcomes to be achieved by the students the end of this course are:</p> <ul style="list-style-type: none"> <li>• Understanding innovations in logistics;</li> <li>• Understanding broad context of innovations in logistics;</li> <li>• Be able to make decisions concerning innovations in logistics and supply chain</li> </ul>		
<b>Knowledge</b>	<b>Effect Code</b>		<b>Assessment</b>
	<b>Subject</b>	<b>Field</b>	
1. Knows how to create and develop individual entrepreneurship		K_W03	Group work Final project
<b>Skills</b>	<b>Effect Code</b>		<b>Assessment</b>
	<b>Subject</b>	<b>Field</b>	
1. Is capable to introduce theoretical knowledge in areas of logistics and supply chain		K_U01	Final project
2. Is able to apply basic knowledge to cooperate with other functional areas		K_U02	Final project
3. Can develop a project aimed at increasing the efficiency of the supply chain		K_U12	Group work
4. Can use the appropriate terminology and norms for creating an innovative project		K_U18	Final project
<b>Social Competencies</b>	<b>Effect Code</b>		<b>Assessment</b>
	<b>Subject</b>	<b>Field</b>	
1. Has interpersonal skills, will work with others and effectively utilize those skills in the teamwork		K_K10	Final project Group work
2. Has the competence to negotiate to achieve common goals		K_K09	Final project Group work
<b>5. Module Coordinator</b>	<b>Name</b>		<b>E-mail</b>
	prof. Aleksandra Laskowska-Rutkowska		a.laskowska@lazariski.edu.pl
<b>6. Lecturer</b>	<b>Name</b>		<b>E-mail</b>
	prof. Aleksandra Laskowska-Rutkowska		a.laskowska@lazariski.edu.pl

<b>7. Module Level</b>	<b>Masters</b>	<b>Bachelors</b>
		x
<b>8. Year and Programme</b>	<b>Year</b>	<b>Programme</b>
	3	BA in Management
<b>9. Module Content</b>		
<b>#</b>	<b>Topics Discussed</b>	<b>Hours</b>
<b>Seminar</b>		
1	Introduction to the course; Design thinking	2,5 h each topic  30 h together
2	Creativity and innovations	
3	Innovative technologies	
4	Go to market analysis	
5	Innovations in logistics and supply chain	
6	Innovations types and diffusion in logistics and supply chain	
7	European Union and national policy in support of innovations	
8	Digital supply chains	
9	Eco – innovations: Green supply chains	
10	Supply chains of the future	
11	Final project presentation	
12	Final projects presentation	
<p><b>The primary goal of this seminar is to impart the knowledge to allow students to intelligently solve practical business problems and to apply creative concepts to real logistic problems.</b></p>		
<b>10. Individual Student's Work</b>		
<b>#</b>	<b>Description</b>	<b>Hours</b>
	Preparation for workshops	15
	Preparation for class discussion	15
	Preparation for final project	50
<b>11. Assessment Methods</b>	Coursework (100%): In-class assignments (50%), Group final project and presentation (50%)	
<b>12. Assessment Criteria</b>	<p>In order to pass the course student should score at least grade 3.0 (50%) as the total grade for semester.</p> <p>Scoring translates into grades as follows:</p> <p>50 - 59 points - grade 3  60 - 69 points - grade 3.5  70 - 79 points - grade 4  80 - 89 points - grade 4.5  90 - 98 points - grade 5  98-100 points - grade 5.5</p> <p>In the case of exceptional student achievements, the lecturer can award a 5.5 mark with fewer points.</p>	
<b>13. ECTS Credits</b>	5	

		Hours	ECTS
	<b>Contact Hours</b>		
	Lecture	30	1,2
	Consultation	15	0,6
	<b>Other Kind of Student's Activity</b>		
	Individual Student's Work	80	3,2
	<b>SUMM</b>	125	5
<b>14. Required Readings</b>	<ol style="list-style-type: none"> <li>1. Disruptive technologies, M&amp;C institute, May 2013.</li> <li>2. Future supply chains, Cap Gemini 2008.</li> </ol>		
<b>15. Recommended Readings</b>	<ol style="list-style-type: none"> <li>1. Laskowska-Rutkowska A. , Innovation diffusion in the supply chain, Research in Logistics and Production. Special Issue, 2015 Vol. 5, No 3., s. 287-297</li> <li>2. Laskowska-Rutkowska A., <i>Effectiveness of Polish innovation policy in services area</i>, [w:] Scientific Journal of Service Management, Vol.8, nr 681, Szczecin 2012, s. 9 – 21.</li> </ol>		
<b>16. Place where module is run</b>	LU campus		
<b>17. Other</b>			