#### card of course

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| Subject name | Logistics |

1. The placement of the subject in the study system

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| 1.1. Field of study | Management |
| 1.2. Form and path of study | Full-time/Part-time |
| 1.3. Level of education | First-cycle studies |
| 1.4. Study profile | Practical |

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| 1. 5. Specialty | Company management |
| 1.6. Subject Coordinator | Dr hab. Tomasz Białowąs |

2. General characteristics of the subject

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| 2.1. Belonging to a subject group | Optional/Practical |
| 2.2. Number of ECTS | 5 |
| 2.3. Language of lectures | Polish |
| 2.4. Semesters in which the subject is taught | IV |
| 2.5.Criteria for selecting course participants | For the specialization: Company management |

1. Learning outcomes and course delivery
	1. Subject Objectives

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| No. | Subject Objectives |
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| C1 | Acquiring practical knowledge in the field of logistics and the functioning of logistics companies |
| C2 | Acquiring knowledge about transport organization and knowledge about the design of logistics processes and systems. |
| C3 | Developing independence in searching for and presenting information about logistics systems and the ability to analyze data about logistics systems |
| C4 | Understanding the essence of supply chains and practical ways to manage them. |
| C5 | Acquiring the ability to prepare a supply plan for the production process of a selected product, assuming roles appropriate to a given stage of the logistics project. |

* 1. Subject-specific learning outcomes, divided into knowledge , skills and competences , with reference to the directional learning outcomes

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| --- | --- | --- | --- |
| No. | Description of subject learning outcomes | Reference to directional effectslearning (symbols) | Method of implementation (mark "X") |
| ST | NST |
| Classes at the University | Activities on the platform | Classes at the University | Activities on the platform |
| After passing the course, the student knows and understands **the knowledge** |
| W1 | Has knowledge of logistics, knows the history and concepts used in logistics, understands the importance of logistics in various types of company activities | Z1\_W04Z1\_W05 |  | X |  | X |
| W2 | Knows and understands the company's logistics systems, chains and processes, the principles of their design, automation and management, including the use of IT tools |  | X |  | X |
| W3 | Knows what logistics management is in an enterprise, management in transport, storage or operational systems, understands the relationships in the logistics process between individual phenomena and processes |  | X |  | X |
| After passing the course, the student is **able** to: |
| U1 | Is able to notice phenomena and processes occurring within the organisation and in its environment that affect its functioning in the area of logistics, and is able to analyse them. | Z1\_U01Z1\_U02Z1\_U14 | X |  | X |  |
| U2 | Estimate material requirements and market demand, using appropriate methods and techniques to support the process | X |  | X |  |
| U3 | Determine the location, plan and organization of the warehouse and select appropriate storage resources and equipment and estimate storage costs | X |  | X |  |
| U4 | Is able to cooperate in the preparation of a supply plan for the production process of a selected product, assuming roles appropriate for a given stage of the logistics project | X |  | X |  |
| After completing the course, the student is ready to take part in **social competences.** |
| K1 | Recognizing the importance and role of logistics in the proper functioning of the enterprise and taking responsibility for logistics decisions | Z1\_K06 | X |  | X |  |

3.3. Forms of teaching and their number of hours - Full-time studies (ST), Part-time studies (NST)

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| Path | Lecture | Exercises | Design | Workshop | Laboratory | Seminar | Lecturer | Classes conducted using distance learning methods and techniques in the form of a lecture | Other | **ECTS points** |
| **ST** |  |  | 30 |  |  |  |  | 15 |  | 5 |
| **NST** |  |  | 15 |  |  |  |  | 10 |  | 5 |

3.4. Content of education (separately for each form of classes: (W, ĆW, PROJ, WAR, LAB, LEK, OTHER). It should be marked (X) how the given content will be implemented (classes at the university or classes on the e-learning platform conducted using distance learning methods and techniques)

TYPE OF CLASS: LECTURE

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| No. | Content of the course | Reference to subject-specific learning outcomes | Method of implementation (mark "X") |
| ST | NST |
| **Classes at the University** | **Activities on the platform** | **Classes at the University** | **Activities on the platform** |
| 1. | The concept of logistics. The origin and essence of logistics. Stages of logistics development. | W1 |  | X |  | X |
| 2. | Information in logistics. Logistics information system (functions, place of the logistics information system in the logistics system. Consulting capabilities of applications used in enterprise logistics. | W1, W2 |  | X |  | X |
| 3. | Functional and phase division of logistics in the company. | W1 |  | X |  | X |
| 4. | Inventories and their management (the essence of inventory and its categories, inventory costs, inventory control methods, forecasting). | W1, W2, W3 |  | X |  | X |
| 5. | Supply chain management – methods, tools, indicators, evaluation criteria. | W1, W2, W3 |  | X |  | X |
| 6. | Summary of classes and discussion of grades. |  |  | X |  | X |

TYPE OF CLASS: PROJECT

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| --- | --- | --- | --- |
| No. | Content of the course | Reference to subject-specific learning outcomes | Method of implementation (mark "X") |
| ST | NST |
| **Classes at the University** | **Activities on the platform** | **Classes at the University** | **Activities on the platform** |
| 1. | Introduction to classes. Supply logistics of the production process of a selected product on the example of a selected enterprise. Discussion of the project work schedule. | U1 | X |  | X |  |
| 2. | The supply process of the production process of the selected product, product characteristics, production technology - estimation of individual material requirements, estimation of market demand | U1, U2, K1 | X |  | X |  |
| 3. | The supply process of the production process of the selected product - estimation of the necessary warehouse stock | U1, U3, K1 | X |  | X |  |
| 4. | Supply process of the production process of the selected product - indication of distribution and supply places. | U1, U3, K1 | X |  | X |  |
| 5. | The supply process of the production process of the selected product - selection of storage equipment, estimation of storage and production costs | U1, U3, K1 | X |  | X |  |
| 6. | Presentation of projects. Summary of classes and discussion of assessments. |  | X |  | X |  |

3.5. Methods of verifying learning outcomes (indication and description of methods of conducting classes and verification of achievement of learning outcomes and method of documentation)

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| --- | --- | --- | --- |
| Subject Effects | Teaching methods | Methods of verifying learning outcomes | Documentation methods |
| KNOWLEDGE |
| W1-W3 | Lecture and discussion of issues using multimedia, analysis of examples, discussions | Oral exam (100% of the final grade from the lecture) | Oral examination report |
| SKILLS |
| U1-U3 | Exercises, group work, discussion with students, work with text, project work, case study | Implementation in groups of a logistics project concerning the supply process of the production process of the selected product according to the following points:1. Product characteristics. 2. Production technology – estimation of unit material requirements.3. Estimation of market demand.4. Estimation of the required warehouse capacity.5. Estimation of the safety stock size.6. Indication of distribution and supply points.7. Location of the central warehouse. The production plant is located in Zamość.8. Warehouse layout and organization.9. Selection of storage equipment.10. Estimation of storage and production costs.(100% of the final grade for the project) | Rated project |
| SOCIAL COMPETENCES |
| K1 | Exercises, group work, discussion with students, work with text, project work, case study | Implementation in groups of a logistics project concerning the supply process of the production process of the selected product according to the following points:1. Product characteristics. 2. Production technology – estimation of unit material requirements.3. Estimation of market demand.4. Estimation of the required warehouse capacity.5. Estimation of the safety stock size.6. Indication of distribution and supply points.7. Location of the central warehouse. The production plant is located in Zamość.8. Warehouse layout and organization.9. Selection of storage equipment.10. Estimation of storage and production costs.(100% of the final grade for the project) | Rated project |

3.6. Assessment criteria for the achieved learning outcomes

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| Learning effect | For a grade of 3 or "pass."the student knows and understands/is able to/is ready to | For a grade of 3.5, the student knows and understands/is able to/is ready to | For a grade of 4, the student knows and understands/is able to/is ready to | For a grade of 4.5, the student knows and understands/is able to/is ready to | For a grade of 5, the student knows and understands/is able to/is ready to |
| W | 51-60% of knowledge indicated in learning outcomes | 61-70% of knowledge indicated in learning outcomes | 71-80% of knowledge indicated in learning outcomes | 81-90% of knowledge indicated in learning outcomes | 91-100% of knowledge indicated in learning outcomes |
| U | 51-60% of skills indicated in learning outcomes | 61-70% of skills indicated in learning outcomes | 71-80% of skills indicated in learning outcomes | 81-90% of skills indicated in learning outcomes | 91-100% of skills indicated in learning outcomes |
| K | 51-60% of skills indicated in learning outcomes | 61-70% of skills indicated in learning outcomes | 71-80% of skills indicated in learning outcomes | 81-90% of skills indicated in learning outcomes | 91-100% of skills indicated in learning outcomes |

3.7. Literature

**Basic**

1. Logistyka, B. Klepacki (red.); aut.: J. Domagała [et al.]. Warszawa : CeDeWu, 2022
2. Kordel Zdzisław, Logistyka i transport w ujęciu systemowym, Warszawa: CeDeWu, 2019;
3. Kuriata Andrzej, Logistyka i transport: teoria oraz praktyczne zastosowania, Warszawa: CeDeWu, 2019;
4. Logistyka: koncepcja zintegrowanego zarządzania, P. Blaik. - Wyd. 4 zmienione. Warszawa: Polskie Wydawnictwo Ekonomiczne, 2017

**Supplementary**

1. Kisperska-Moroń D., Krzyżaniak S.: „Logistyka”; Biblioteka Logistyka; ILiM, Poznań 2009.
2. Gołembska Elżbieta, Transport w logistyce, Warszawa: CeDeWu, 2020.
3. Banaszyk P., Kauf S., Szołtysek J., Logistyka jako czynnik dobrostanu, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2021

4. Student workload - ECTS points balance

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| --- | --- |
| **Types of student activity** | **Student Load** |
| **ST** | **NST** |
| **Classes requiring direct contact between the student and the academic teacher at the university premises** | **45** | **25** |
| Classes included in the study plan | 45 | 25 |
| **Student's own work** | **80** | **100** |
| Ongoing preparation for classes, preparation of project work/presentations/etc. | 40 | 50 |
| Preparation for passing classes | 40 | 50 |
| **TOTAL STUDENT HOURLY LOAD** | **125** | **125** |
| **Number of ECTS points** | **5** | **5** |

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| Last change date | 30/09/2024 |
| The changes were introduced | ZAZ Education Quality Team |
| The changes were approved | Mgr Anna Bielak |