#### CARD OF COURSE

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| Subject name | ERP |

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 | - |
| 1.6. Subject Coordinator | Mgr Szymon Włodarczyk |

2. General characteristics of the subject

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| 2.1. Belonging to a subject group | Directional/Practical |
| 2.2. Number of ECTS | 2 |
| 2.3. Language of lectures | Polish |
| 2.4. Semesters in which the subject is taught | IV |
| 2.5.Criteria for selecting course participants | - |

1. Learning outcomes and course delivery
   1. Subject Objectives

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| No. | Subject Objectives |
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| C1 | To familiarize students with knowledge about the structures of Integrated Enterprise Resource Planning Systems a. |
| C2 | Indication of appropriate management systems for specific areas of the company's operations. |
| C3 | Indication of practical selection of ERP subsystems to the enterprise requirements. |
| C4 | Acquiring skills in using ERP methods and tools to optimize an enterprise and assess ERP effectiveness. |

* 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 effects  learning (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 | Knows and understands ERP concepts and issues. | Z1\_W02  Z1\_W08 | X |  | X |  |
| W2 | Possesses knowledge that allows the implementation of individual subsystems. | X |  | X |  |
| W3 | Knows the methods, tools and software used in ERP, understands the impact of technological development on ERP systems | X |  | X |  |
| W4 | Understands the decision-making process made by managers responsible for optimal resource planning. | X |  | X |  |
| After passing the course, the student is **able** to: | | | | | | |
| U1 | Is able to select the ERP functional structure. | Z1\_U04  Z1\_U05  Z1\_U16 | X |  | X |  |
| U2 | Can plan the ERP process for the organization | X |  | X |  |
| U3 | Has the ability to evaluate ERP effectiveness and seek opportunities for further automation of processes within the organization. | X |  | X |  |
| U4 | Is able to use ERP methods and tools to optimize the enterprise and implement financial controlling | X |  | X |  |
| After completing the course, the student is ready to take part in **social competences.** | | | | | | |
| K1 | Is ready to practically implement and control the ERP operation and take full responsibility for it | 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 ………………. | Other | **ECTS points** |
| **ST** |  |  |  |  | 30 |  |  |  |  | 2 |
| **NST** |  |  |  |  | 10 |  |  |  |  | 2 |

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: LABORATORY

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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 ERP – definition, basic issues, essence, historical development and evolution of ERP. | W1 | X |  | X |  |
| 2. | ERP modules and functionalities | W1, W3 | X |  | X |  |
| 3. | ERP system implementation life cycle | W2 | X |  | X |  |
| 4. | Improving processes through ERP | U1, U4 | X |  | X |  |
| 5. | Business Process Mapping and Analysis | U2 | X |  | X |  |
| 6. | ERP systems selection process | W2, W4, U2 | X |  | X |  |
| 7. | ERP system evaluation over time | U2, U3 | X |  | X |  |
| 8. | ERP system customization and configuration | U1 | X |  | X |  |
| 9. | Change management | W4, U1 | X |  | X |  |
| 10. | Mobile ERP system and remote access | W3 | X |  | X |  |
| 11. | Integration of ERP systems | U3 | X |  | X |  |
| 12. | ERP reporting and data analysis | U3 | X |  | X |  |
| 13. | ERP in manufacturing and wholesale | U1 | X |  | X |  |
| 14. | ERP project planning and management | U1, U2, U4 | X |  | X |  |
| 15. | Introduction to Process Management Methodology | W3, U4 | X |  | X |  |
| 16. | Customized ERP solutions | W2, W4 | X |  | X |  |
| 17. | Simple presentation of the ERP system | W2, U2, K1 | X |  | X |  |
| 18. | Global ERP implementations | W2 | X |  | X |  |
| 19. | Future trends | W2 | X |  | X |  |
| 20. | Summary of classes and discussion of grades |  | 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-W4 | multimedia presentation, discussion, case study, analysis of materials/documents, performing exercises in the area of company resource planning and management | As part of the verification of learning outcomes, students solve a problem task. Students select a company, analyze its specifics and select individual ERP system modules in order to plan and manage resources. The proper selection of modules will be assessed due to the specifics of the company while taking into account the aspects of system security in terms of internal and external threats. | A graded problem-solving task that will be sent to the platform |
| SKILLS | | | |
| U1-U4 | multimedia presentation, discussion, case study, analysis of materials/documents, performing exercises in the area of company resource planning and management | As part of the verification of learning outcomes, students solve a problem task. Students select a company, analyze its specifics and select individual ERP system modules in order to plan and manage resources. The proper selection of modules will be assessed due to the specifics while taking into account the aspects of system security in terms of internal and external threats. | A graded problem-solving task that will be sent to the platform |
| SOCIAL COMPETENCES | | | |
| K1-K2 | multimedia presentation, discussion, case study, analysis of materials/documents, performing exercises in the area of company resource planning and management | As part of the verification of learning outcomes, students solve a problem task. Students select a company, analyze its specifics and select individual ERP system modules in order to plan and manage resources. The proper selection of modules will be assessed due to the specifics while taking into account the aspects of system security in terms of internal and external threats. | A graded problem-solving task that will be sent to the platform |

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. J. Auksztol, P. Balwierz, M. Chomuszko, Zrozumieć system ERP Warszawa 2022
2. J. Jurek, Wdrożenia informatycznych systemów zarządzania Warszawa: Wydawnictwo Naukowe PWN, 2016
3. red. nauk. S.Wrycza, J. Maślankowski. - Informatyka ekonomiczna: teoria i zastosowania, Wyd. 2 zm. i rozszerz. Warszawa : Wydawnictwo Naukowe PWN, 2019

**Supplementary**

1. B. Wachnik. Wdrażanie systemów informatycznych wspomagających zarządzanie Warszawa: Polskie Wydawnictwo Ekonomiczne, 2016
2. A. Januszewski. - Wyd. 1, dodr. 3. Funkcjonalność informatycznych systemów zarządzania. T. 1, Zintegrowane systemy transakcyjne, Warszawa: Wydawnictwo Naukowe PWN, 2012

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** | **30** | **10** |
| Classes included in the study plan | 30 | 10 |
| **Student's own work** | **20** | **40** |
| Ongoing preparation for classes, preparation of project work/presentations/etc. | 10 | 20 |
| Preparation for passing classes | 10 | 20 |
| **TOTAL STUDENT HOURLY LOAD** | **50** | **50** |
| **Number of ECTS points** | **2** | **2** |

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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 |