#### card of course

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| Subject name | Management of information technology projects |

1. The placement of the subject in the study system

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| 1.1. Field of study | Computer science |
| 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 | Dr Rafał Stęgierski |

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 | English |
| 2.4. Semesters in which the subject is taught | V |
| 2.5.Criteria for selecting course participants | - |

1. Learning outcomes and course delivery
   1. Subject Objectives

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| --- | --- |
| No. | Subject Objectives |
|
| C1 | Gaining knowledge and skills in IT project management |
| C2 | Practical application of knowledge in IT project management |
| C3 | IT project management on a selected example. |

* 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 | The specificity of IT projects and the basics of standards and methodologies related to IT project management. | INF\_W16  INF\_W17 | X |  | X |  |
| W2 | Techniques for conducting analytical and design work and operational management of an IT project. | X |  | X |  |
| W3 | Knows how to characterize and describe, on the basis of IT projects, the basics of project management theory and management techniques such as Gantt charts. | X |  | X |  |
| W4 | Knows how to define, describe, interpret and relate concepts related to scope management of IT projects. | X |  | X |  |
| After passing the course, the student is **able** to: | | | | | | |
| U1 | Define the purpose and scope of an IT project. | INF\_U12  INF\_U21  INF\_U31 | X |  | X |  |
| U2 | Define the roles and responsibilities in an IT project and the competences and responsibilities of the project manager. | X |  | X |  |
| U3 | Decompose the project into tasks, construct a network of relationships, define the necessary resources, balance the project, and estimate project costs. | X |  | X |  |
| After completing the course, the student is ready to take part in **social competences.** | | | | | | |
| K1 | Combining a business and technological perspective on IT project management. | INF\_K03  INF\_K06 | X |  | X |  |
| K2 | It is oriented towards rational PI management. | X |  | X |  |
| K3 | Is aware of the key role of PI scope management. | 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** |  |  | 20 |  |  |  |  |  |  | 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: 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. | IT project planning | W1, U1, K1 | X |  | X |  |
| 2. | Project planning objectives | W1, U1, K1 | X |  | X |  |
| 3. | Defining project goals | W1, U1, K1 | X |  | X |  |
| 4. | Project Resources | W2, U2, K2 | X |  | X |  |
| 5. | Defining Design Constraints | W4, U2, K2 | X |  | X |  |
| 6. | Project implementation strategy | W4, U2, K2 | X |  | X |  |
| 7. | Risk assessment | W4, U2, K2 | X |  | X |  |
| 8. | Project structure | W2, U3, K3 | X |  | X |  |
| 9. | Project estimates | W2, U3, K3 | X |  | X |  |
| 10. | Schedule | W3, U1, U2, U3 | X |  | X |  |
| 11. | Network Dependency Diagrams | W3, U3, K3 | X |  | X |  |
| 12. | Initiating a project | U3, K3 | X |  | X |  |
| 13. | 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)

IT Project Management - Project containing the following information:

1. Project objective and individual tasks
2. Assessment of the existing situation
3. Resource demand
4. Programme of activities
5. Task priorities
6. List of people performing tasks
7. Work schedule
8. List of control mechanisms
9. Possible variant solutions
10. Assumptions

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| --- | --- | --- | --- |
| Subject Effects | Teaching methods | Methods of verifying learning outcomes | Documentation methods |
| KNOWLEDGE | | | |
| W1-W4 | conversational lecture, talk | IT Project Management - Project (description above) | About the appreciated project |
| SKILLS | | | |
| U1-U3 | project work, analysis of materials/articles/films/documents, group work, simulation game | IT Project Management - Project (description above) | Rated project |
| SOCIAL COMPETENCES | | | |
| K1-K3 | project work, group work, simulation game | IT Project Management - Project (description above) | 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. Phillips J., *Zarządzanie projektami IT*, Helion, 2011

**Supplementary**

1. Koszlajda A., *Zarządzanie projektami IT Przewodnik po metodykach*, Helion, 2010
2. Szyjewski Z., *Metodyki zarządzania projektami informatycznymi*, Placed, 2004

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** | **20** | **10** |
| Classes included in the study plan | 20 | 10 |
| **Student's own work** | **30** | **40** |
| Ongoing preparation for classes, preparation of project work/presentations/etc. | 15 | 20 |
| Preparation for passing classes | 15 | 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 | INF Education Quality Team |
| The changes were approved | Arkadiusz Gwarda, M.A. |