GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Enterprise Information Systems, PG_00067363 | | |
| Field of study | Engineering Management | | |
| Date of commencement of studies | October 2025 | Academic year of realisation of subject | 2026/2027 |
| Education level | first-cycle studies | Subject group | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study |
| Mode of study | Full-time studies | Mode of delivery | at the university |
| Year of study | 2 | Language of instruction | Polish |
| Semester of study | 3 | ECTS credits | 5.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | |
| | Teachers | | |

**Lesson types and methods of instruction**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 0.0 | 30.0 | 0.0 | 0.0 | 60 |

E-learning hours included: 0.0

**Learning activity and number of study hours**

| Learning activity | Participation in didactic classes included in study plan | Participation in consultation hours | Self-study | SUM |
|---|---|---|---|---|
| Number of study hours | 60 | 5.0 | 60.0 | 125 |

**Subject objectives**

The aim of the course is to introduce the theory and practice of using information technologies and systems by organizations to achieve strategic goals and implement digital transformation.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving. | selects IT methods and techniques to identify, diagnose, and solve problems occurring within the enterprise and its socio-economic environment | [SW2] Assessment of knowledge contained in presentation<br>[SW1] Assessment of factual knowledge |
| [K6_U07] uses advanced information technologies to enhance data analysis and management processes. | applies information technologies and systems to ensure the availability of high-quality data and algorithms that can support the enterprise in making informed decisions, achieving strategic goals, and delivering value to customers and stakeholders | [SU5] Assessment of ability to present the results of task<br>[SU4] Assessment of ability to use methods and tools<br>[SU3] Assessment of ability to use knowledge gained from the subject<br>[SU1] Assessment of task fulfilment |
| [K6_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts. | is able to recognize the limits of their knowledge when analyzing the use of information systems in an organization and, if needed, draws on practitioner experience or specialized sources to effectively address complex problems | [SK5] Assessment of ability to solve problems that arise in practice |

**Subject contents**

LECTURES

- Introduction - digital enterprise
- Typology - types of enterprise information systems
- Organization - mutual impact of organization and information systems

LABORATORY

- Sales and distribution
- Materials management
- Production planning and execution
- Financial accounting accounts receivable

**Prerequisites and co-requisites**

Fundamentals of computer science, management, marketing, production management and microeconomics

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Exam | 60.0% | 45.0% |
| Activity during labs | 60.0% | 25.0% |
| Project | 60.0% | 20.0% |
| Activity during lectures | 0.0% | 10.0% |

**Recommended reading**

Basic literature

- Kenneth C. Laudon and Jane P. Laudon. (2022). Management information systems:Managing the digital firm. 17th edition. Pearson Education.
- Introduction to SAP S/4HANA. Next Generation Business Suite, Last Update: July2023, ©2023 SAP SE / SAP UCC Magdeburg

Supplementary literature

Erik Brynjolfsson, Andrew McAfee. (2016). The Second Machine Age - Work, Progress,and Prosperity in a Time of BrilliantTechnologies. Norton.

eResources addresses

Adresy na platformie eNauczanie:

**Example issues/ example questions/ tasks being completed**

1. What are the strategic goals of enterprise information systems?
2. How does an information system create value for an enterprise?
3. Which disciplines study information systems, and what does each contribute?
4. How are business processes connected to information systems?
5. How do information systems integrate and enhance enterprise efficiency?
6. What is the role of information system functions in an enterprise?
7. How does an organization influence the development and use of information systems?
8. How do information systems impact the functioning of an organization?

**Work placement**

Not applicable

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