University of Gdańsk

Subject card

Subject name and code	Management Information Systems, PG_00157364		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	Master's studies	Subject group	Obligatory subject group in the field of study 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 Teaching materials in English
Semester of study	4	ECTS credits	4.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Lenart	
	Teachers	dr Anna Lenart	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	15.0	0.0	0.0	0.0	30

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	30	20.0	50.0	100

Subject objectives

1. Transfer of knowledge on the functioning of management information systems and their use in the process of making managerial decisions (e.g. financial, HR, logistics, marketing).
2. Preparing students to use the SAP S/4HANA system on the example of the model company Global Bike Inc. (GBI) created for teaching purposes by SAP University Alliances.
3. Preparing students to use Business Analytics tools on the example of a management dashboard.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEMU2_K01] The student understands the need for continuous completion and deepening of acquired knowledge. The student inspires and organizes others' learning processes.	The student understands the need of contionous completion and deepeing of acquired knowledge of management information systems.	[SK2] presentation/project/paper/ report [SK8] observation of student's independent or team work
[IiEMU2_U04] The student is able to plan, design, and program information systems at an advanced level, supporting the operation of business entities.	The student is able to plan the use of SAP S/4 HANA system and design the management dashboard using a business analytics tool.	[SU2] presentation/project/paper/ report [SU3] text preparation/written work [SU5] implementation of a problem task [SU6] demonstration of practical skills
[IiEMU2_U02] The student is able to proficiently acquire detailed information about economic processes and phenomena through direct observation, planned experimentation or database queries, as well as collect and process it using modern information technology tools.	The student is able to acquire detiled information about business procesess from various management information systems.	[SU2] presentation/project/paper/ report
[IiEMU2_K02] The student can communicate freely with the public on specialised topics in the field of computer science and econometrics in and outside the workplace, communicate his knowledge and share his skills through various media. Culturally participates in discussions, is not afraid to ask questions and knows how to give constructive criticism.	The student can communicate with the public on topics in the field of management information systems and share his skills throught various media.	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task
[IiEMU2_W05] The student has an in-depth knowledge of socio-economic data sources, their databases and how to create them.	The student has an in-depth knowledge on economic data sources and forms of data visualization and document registration methods in SAP S/4 HANA system.	[SW2] presentation/project/paper/ report [SW3] text preparation/written work [SW5] implementation of a problem task
[IiEMU2_K03] The student is able to communicate freely with the public inside and outside the workplace, transfer his knowledge and share his skills through various media.	The student is able to transfer his knowledge of management information systems.	[SK2] presentation/project/paper/ report [SK8] observation of student's independent or team work
[IiEMU2_W02] The student has an in-depth knowledge of economic structures and institutions, the processes taking place in them, the connections between them and their dynamics, and has an in-depth knowledge of the phenomena and processes taking place in their environment.	The student has an in-depth about organizations and the processes taking place in them and processes in their environment.	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[IiEMU2_W04] The student has an in-depth knowledge of advanced mathematical, statistical, econometric and IT methods that enable the acquisition, processing and analysis of data reflecting the functioning and growth of the national economy and its components, as well as the phenomena and processes occurring in their environment.	The student has an in-depth knowledge of advanced IT methods that enable the acquisition, processing and analysis data regarding various business processes.	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task

<table>
<tr><td>Subject contents</td><td>

Lecture

1. Information systems in traditional, virtual and learning organizations.
2. Types, sources of acquisition, forms of visualization and ways of sharing managerial information.
3. Basics of Business Analytics.
4. Functions, elements, principles of creation and tools for building a management dashboard.
5. Areas and levels of management and the information needs of managers.
6. Structure, functions, classification and trens of development of management information systems.
7. Information and communication technologies used in management information systems.

Tutorial

1. SAP S/4HANA system as software for enterprises presentation.
2. Principles of using the ERP system on the example of the SAP S/4HANA system (navigation in the SAP S/4HANA system) and case study analysis - a model GBI enterprise.
3. Application of the Financial Accounting (FI) module presentation, exercises and case study.
4. Assessment of the FI module - report.
5. Management dashboard use case analysis.
6. Planning and designing a management dashboard for a selected job position.
7. Presentation of the management dashborad project.

</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>The student should have a basic knowledge of business informatics and the ability to use the Microsoft Office suite.</td></tr>
<tr><td>Assessment methods and criteria</td><td>

<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>management dashboard design for a selected job position (presentation and description of the project)</td><td>51.0%</td><td>40.0%</td></tr>
<tr><td>written final paper (lecture)</td><td>51.0%</td><td>30.0%</td></tr>
<tr><td>report on problem tasks (tutorial)</td><td>51.0%</td><td>30.0%</td></tr>
</table>

</td></tr>
<tr><td>Recommended reading</td><td>

<table>
<tr><td>Basic literature</td><td>1. Wrycza S., Maślankowski J. (eds.), Informatyka ekonomiczna. Teoria i zastosowania, Wydanie II, PWN, Warszawa 2019 (chapters 2, 3, 17, 18, 19)
2. Eckerson W.W., Performance Dashboards: Measuring, Monitoring, and Managing Your Business, 2nd edition, Wiley 2010.
3. Parmenter D., Kluczowe wskaźniki efektywności (KPI). Tworzenie, wdrażanie i stosowanie, Helion, Gliwice 2016.
4. Intro to SAP S4HANA Using Global Bike 4.2, learning materials, SAP University Alliances, July 2023.
5. A course for the subject "ERP systems" on the UG Educational Portal.</td></tr>
<tr><td>Supplementary literature</td><td>1. Arnold J., Poznaj Microsoft Power BI. Przekształcanie danych we wnioski, APN Promise, Warszawa 2023.
2. Korsak W., Wizualizacja informacji w biznesie, Novae Res, Gdynia 2015.
3. Kusleika D., Wizualizacja danych. Pulpity nawigacyjne i raporty w Excelu, Helion, Gliwice 2023.
4. Tritschler J., Walz S., Rupp R., Mucka N., Financial Accounting with SAP S/4HANA: Business User Guide, SAP Press 2019.
5. Winston M.W., Microsoft Excel 2019. Analiza i modelowanie danych biznesowych, APM Promise, Warszawa 2019.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
</table>

</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.