University of Gdańsk

# Subject card

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|---|---|---|---|
| Subject name and code | Introduction to IT Solutions for Business, PG_00177450 | | |
| Field of study | Informatics and Econometrics | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2026/2027 |
| Education level | Master's 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 | 1 | Language of instruction | English |
| Semester of study | 1 | 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 Dorota Buchnowska, prof. UG | |
| | Teachers | dr Dorota Buchnowska, prof. UG | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 45.0 | 0.0 | 0.0 | 45 |

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 | 45 | 3.0 | 52.0 | 100 |

**Subject objectives**

1. Familiarizing students with different types of business applications.
2. Familiarizing students with the characteristics and functionality of integrated business applications dedicated to SMEs.
3. Familiarizing students with the possibilities of developing custom solutions using low-code platforms.

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [IiEMU2_W05] Possesses advanced knowledge and understanding of informatics, statistics, and econometrics techniques and tools used to acquire, process, or visualise data to aid in decision-making and verify research hypotheses | (1) The student knows and characterizes information systems used in enterprises.<br>(2) The student explains how the use of selected information systems affects business processes within an enterprise.<br>(3) The student knows and understands the specific characteristics of solutions designed for small and medium-sized enterprises (SMEs). | [SW2] presentation/project/paper/ report<br>[SW5] implementation of a problem task |
| [IiEMU2_U03] Is able to obtain and verify data from properly selected sources and to collect, process, and visualize it using modern econometrics, informatics or statistics tools | (1) The student is able to use information systems supporting various areas of an enterprise's operations to support the execution and automation of business processes and decision-making.<br>(2) The student is able to use information and reports available in enterprise information systems to support decision-making processes. | [SU2] presentation/project/paper/ report<br>[SU8] observation of student's independent or team work |
| [IiEMU2_U12] Can adapt, design, create, and operate IT systems that support business entities | (1) The student is able to analyze the information needs of business users and appropriately select, customize, and use an information system.<br>(2) The student is able to use low-code and AI tools to develop customized IT applications. | [SU2] presentation/project/paper/ report<br>[SU8] observation of student's independent or team work |

## Subject contents

1. Classification of business applications.
2. The business applications market.
3. Business applications in the SME sector – specific characteristics.
4. Functionality of integrated business applications for small and medium-sized enterprises (SMEs)::
   - Areas of application and configuration of business applications.
   - Functionality of IT solutions in inventory management, procurement, and sales.
   - Functionality of IT solutions in human resources and payroll management.
   - Reporting in business applications.
5. Fundamentals of developing and customizing business applications using low-code platforms and AI.

## Prerequisites and co-requisites

Knowledge of business processes implemented in enterprises.

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| final project | 51.0% | 60.0% |
| tasks performed during classes | 51.0% | 40.0% |

## Recommended reading

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|---|---|
| Basic literature | 1. Wrycza S., Maślankowski J., Informatyka ekonomiczna. Teoria i zastosowania, PWN, Warszawa 2019.<br>2. Stanusch M, Sztuczna inteligencja. Inspiracje dla biznesu, Business Readings, Gliwice 2025.<br>3. Materials published on the MESTWIN Educational Portal. |
| Supplementary literature | Documentation of the information technologies used during the classes and in the final project. |
| eResources addresses | Basic<br>https://learn.microsoft.com/en-us/power-apps/ - Microsoft Power Apps documentation<br>https://learn.microsoft.com/en-us/power-automate/ - Microsoft Power Automate documentation<br>Supplementary<br>https://learn.microsoft.com/en-us/dynamics365/business-central/ - Microsoft Dynamics 365 Business Central documentation |

## Example issues/ example questions/ tasks being completed

Based on an analysis of the problems faced by a selected enterprise, propose an IT solution that improves business processes. Define its scope of application and identify the potential benefits.

## Work placement

Not applicable

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