

## Subject card

|                                             |                                                                                                                                                                                                                    |                                                          |                                         |                                     |                                                                                                                                                |            |     |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Diploma Seminar 1, PG_00178074                                                                                                                                                                                     |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Field of study                              | Informatics and Econometrics                                                                                                                                                                                       |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Date of commencement of studies             | October 2026                                                                                                                                                                                                       |                                                          | Academic year of realisation of subject |                                     | 2028/2029                                                                                                                                      |            |     |
| Education level                             | Bachelor's studies                                                                                                                                                                                                 |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Optional subject group<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                               | 3                                                                                                                                                                                                                  |                                                          | Language of instruction                 |                                     | Polish                                                                                                                                         |            |     |
| Semester of study                           | 5                                                                                                                                                                                                                  |                                                          | ECTS credits                            |                                     | 2.0                                                                                                                                            |            |     |
| 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 Sławomir Radomski                    |                                     |                                                                                                                                                |            |     |
|                                             | Teachers                                                                                                                                                                                                           |                                                          |                                         |                                     |                                                                                                                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                        | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                                                                                                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                              | 0.0                                                      | 0.0                                     | 0.0                                 | 0.0                                                                                                                                            | 30.0       | 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                                                       |                                         | 4.0                                 |                                                                                                                                                | 16.0       | 50  |
| Subject objectives                          | The objective of the first semester of the seminar is to select a thesis topic in the field of business informatics, prepare the table of contents, develop the thesis concept, and write a chapter of the thesis. |                                                          |                                         |                                     |                                                                                                                                                |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                                                                                                                                                                                                           | Subject outcome                                                                                                                                                                                                                                        | Method of verification              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                   | [liEL3_W05] Knows and understands the methods, techniques and informatics or statistics tools used to acquire, collect, process and present data in decision-making processes                                                                                                                                                                                            | The student has an advanced knowledge and understanding of IT or statistical methods, techniques, and tools used for data acquisition, collection, processing, and presentation in decision-making processes within the scope of their diploma thesis. | [SW3] text preparation/written work |
|                   | [liEL3_U02] Can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems                                                                                                                                                                                                                      | The student is able to propose a solution to a specific research problem within the scope of their diploma thesis.                                                                                                                                     | [SU3] text preparation/written work |
|                   | [liEL3_U01] Can analyze and interpret social and economic processes and phenomena using knowledge and econometrics, informatics or statistics tools from management and quality sciences, economics and finance                                                                                                                                                          | The student describes, analyzes and interprets economic and computer phenomena.                                                                                                                                                                        | [SU3] text preparation/written work |
|                   | [liEL3_K01] Is prepared to acquire the knowledge necessary to tackle cognitive and practical problems, particularly in econometrics, informatics and statistics. Additionally, the students are ready to assess their current knowledge and the information they receive critically and consult with experts if they have difficulties solving the problem independently | The student demonstrates a readiness to independently expand their knowledge in order to develop and propose a solution to a research problem within their diploma thesis in the field of business informatics.                                        | [SK3] text preparation/written work |
|                   | [liEL3_U10] Can convey information clearly and effectively, presenting their opinions using econometrics, informatics, and statistics terminology across various media                                                                                                                                                                                                   | The student is capable of preparing a written paper using theoretical framework and presenting the results of an independently conducted empirical study.                                                                                              | [SU3] text preparation/written work |
|                   | [liEL3_U07] Can prepare written papers, presentations, and oral speeches on problems in econometrics, informatics, or statistics                                                                                                                                                                                                                                         | The student is able to prepare written works, presentations and oral speeches in the field of economic informatics in accordance with the adopted principles.                                                                                          | [SU3] text preparation/written work |

## Subject contents

1. Familiarizing students with the requirements for Bachelor's theses at the Faculty of Management.
2. Determining the thesis topic.
3. Identifying the research problem and the aim of the thesis.
4. Defining the scope of the project/research conducted as part of the diploma thesis.
5. Selecting methods and tools for the empirical part.
6. Developing the thesis outline (structure).
7. Developing the theoretical and/or empirical part of the thesis (in accordance with individual arrangements with the supervisor).

### Seminar Topics

- Design and development of applications (web, mobile);
- Websites – design, development, personalization;
- Application of AI solutions in enterprise management (in various areas);
- Implementation projects and applications of management support systems – CRM, ERP;
- Business data analysis using BI (Business Intelligence) and BA (Business Analytics) solutions.

### dr Dorota Buchnowska

- Application design and development
- Testing
- Information systems in production and management
- Business Intelligence and data warehouse engineering
- Neural networks in economics and management

### dr Dariusz Kralewski

- Portfolio, program, and project management;
- Agile project management methodologies;
- Project Management Office (PMO);
- eCommerce and digital business;
- IT system efficiency (TCO analysis, ROI index);

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                        |                               |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                 | <ul style="list-style-type: none"> <li>• Cloud Computing;</li> <li>• Green Computing;</li> <li>• Student proposals (topics arising from professional practice, aligned with the research trend of the Faculty and Department).</li> </ul> <p>dr Natalia Michałek</p> <ul style="list-style-type: none"> <li>• Design and development of server-side information systems</li> <li>• Design and development of client-side information systems</li> <li>• Software acceptance and adoption research</li> <li>• Information systems in the economy</li> <li>• Utilizing artificial intelligence models in applications</li> </ul> <p>dr Sławomir Radomski</p> <ul style="list-style-type: none"> <li>• IT project management</li> <li>• IT project management methodologies</li> <li>• Project maturity of organizations</li> <li>• IT project team</li> <li>• Innovation / creative methods in IT projects</li> </ul> <p>dr Monika Woźniak</p> |                                                                                                                                                                                                                                                                                                                                        |                               |
| Prerequisites and co-requisites | Knowledge of issues related to writing theses, management and quality sciences, and computer science.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                        |                               |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Passing threshold                                                                                                                                                                                                                                                                                                                      | Percentage of the final grade |
|                                 | A part of the Bachelor's thesis approved by the supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 51.0%                                                                                                                                                                                                                                                                                                                                  | 100.0%                        |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Literature used by the student to write a diploma thesis, verified by the person conducting the diploma seminar</p> <p>W. Czakon (red) (2016). Podstawy metodologii badań w naukach o zarządzaniu. Wyd. Nieoczywiste, Warszawa.</p> <p>Pułto A. (2000). Prace magisterskie i licencjackie, Wydawnictwa Prawnicze PWN, Warszawa.</p> |                               |
|                                 | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Wrycza, S. i Maślankowski, J. (eds.) (2019). Informatyka ekonomiczna: teoria i zastosowania. Wydawnictwo Naukowe PWN. Warszawa.                                                                                                                                                                                                        |                               |
|                                 | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                        |                               |

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Example issues/<br>example questions/<br>tasks being completed |                |
| Work placement                                                 | Not applicable |

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