



## Subject card

|   |  |   |          |                                     |   |            |     |
|---|--|---|----------|-------------------------------------|---|------------|-----|
| Subject name and code                       | LOGIC, PG_00058546   |   |          |                                     |   |            |     |
| Field of study                              | Economic Analytics   |   |          |                                     |   |            |     |
| Date of commencement of studies             | October 2023   | Academic year of realisation of subject   |          |                                     | 2023/2024   |            |     |
| Education level                             | first-cycle studies  | Subject group   |          |                                     | Obligatory subject group in the field of study<br>Humanistic-social subject group |            |     |
| Mode of study                               | Part-time studies  | Mode of delivery  |          |                                     | at the university   |            |     |
| Year of study                               | 1  | Language of instruction   |          |                                     | Polish  |            |     |
| Semester of study                           | 1  | ECTS credits  |          |                                     | 4.0   |            |     |
| Learning profile                            | general academic profile   | Assessment form   |          |                                     | assessment  |            |     |
| Conducting unit                             | Department of Social Sciences and Philosophy -> Faculty of Management and Economics  |   |          |                                     |   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   | dr hab. Andrzej Lisak   |          |                                     |   |            |     |
|   | Teachers   | dr hab. Andrzej Lisak   |          |                                     |   |            |     |
| Lesson types and methods of instruction     | Lesson type  | Lecture   | Tutorial | Laboratory                          | Project   | Seminar    | SUM |
|   | Number of study hours  | 16.0  | 8.0      | 0.0                                 | 0.0   | 0.0        | 24  |
| 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  | 24  |          | 5.0                                 |   | 71.0       | 100 |
| Subject objectives                          | Formulates solutions to the problems by applying basic logical rules and techniques,   |   |          |                                     |   |            |     |
| Learning outcomes                           | Course outcome   | Subject outcome   |          |                                     | Method of verification  |            |     |
|   | [K6_U04] formulates logical solutions to complex or unstructured problems  | makes optimalk decisions by applying basic logical operations: classification, definition, inference  |          |                                     | [SU4] Assessment of ability to use methods and tools                              |            |     |
| Subject contents                            | [K6_W02] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems   | analyzes basic statements and investigates its logical and argumewntative correctness   |          |                                     | [SW1] Assessment of factual knowledge   |            |     |
|   | What is Logic?<br>Logic and Language,<br>Functions of Language. Logic and Meaning.<br>Name and Concept. Definitions and Division.<br>Propositions and Judgments and their Forms.<br>Sentential Calculus. Rules of sentential Calculus.<br>Predicate Caculus.<br>Basic Notions of Set Theory.<br>Syllogistic Logic.<br>Deductive, Reductive and Inductive Reasoning.<br>The significance of Logic for solving scientific Questtions.<br>Logic in Economics.<br>Logic and rethoric.<br>Discussions of chosen logical dilemas and solving problems. |   |          |                                     |   |            |     |
| Prerequisites and co-requisites             |  |   |          |                                     |   |            |     |
| Assessment methods and criteria             | Subject passing criteria   | Passing threshold   |          |                                     | Percentage of the final grade   |            |     |
|   | Presenting chosen subjects   | 100.0%  |          |                                     | 20.0%   |            |     |
|   | Oral exam  | 60.0%   |          |                                     | 65.0%   |            |     |
|   | Homeworks  | 60.0%   |          |                                     | 15.0%   |            |     |
| Recommended reading                         | Basic literature   | Kazimierz Ajdukiewicz, (1957). Zarys logiki. Warszawa: PZWS.<br>Leszek Borkowski. (1974). Elementy logiki formalnej. Warszawa; PWN.<br>Barabara Stanosz. (1985). Wprowadzenie do logiki formalnej. Warszawa: PWN.<br>Zygmunt Ziemiński. (1998). Logika praktyczna. Warszawa: PWN. |          |                                     |   |            |     |

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|  | Supplementary literature                        | Mała encyklopedia logiki, (1970). Warszawa: Ossolineum.<br>Chaim Perelman. (2003). Retoryka a sztuka argumentacji. Warszawa: PWN.  |
|  | eResources addresses                            | Adresy na platformie eNauczenie:<br>Logika (AG I STAC) - Moodle ID: 34101<br><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34101">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34101</a> |
| Example issues/<br>example questions/<br>tasks being completed | Examine given sentences and give its conclusion |  |
| Work placement   | Not applicable                                  |  |