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| **Prowadzący (lecturer)** | MAKALO PASTORY PETRO |
| **Oferta PJO\*** | TAK |
| **Oferta PJOE\*** | TAK |
| **Kierunek, rok, stopień dla PJO (\*obowiązkowe)** |  |
| **Semestr roku 2023/2024** | winter |

\* PJO – przedmiot w języku obcym dla studentów polskich / PJOE – przedmiot w języku obcym dla studentów Erasmus+  
\*\* zostawić właściwe

BASIC INFORMATION ABOUT THE SUBJECT (INDEPENDENT OF THE CYCLE)

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| **Module name** | QUANTITATIVE METHODS |
| **Erasmus code** |  |
| **ISCED code** |  |
| **Language of instruction** | ENGLISH |
| **Website** |  |
| **Prerequisites** | NONE |
| **ECTS points hour equivalents** | Contact hours (work with an academic teacher): 15  Total number of hours with an academic teacher: 15  Number of ECTS points with an academic teacher: 1 Non-contact hours (students' own work): 30 Total number of non-contact hours: 30 Number of ECTS points for non-contact hours: 2  Total number of ECTS points for the module: 3 |
| **Educational outcomes verification methods** | Demonstration (presentation), test, and analysis. |
| **Description** |  |
| **Reading list** | 1. Schaum Series (1992) Introduction to Mathematical Economics. McGraw-Hill, New York 2. Yandl a.L. (1991) Introduction Mathematical Analysis for Business and Economics; Brooks/Cole: California. |
| **Educational outcomes** | KNOWLEDGE  Understand the benefits of using quantitative methods  SKILLS  Apply calculus techniques to analyze economic and business problems  ATTITUDES  Differentiate and integrate common functions that reflect real/practical economics, business, or Financial problems. |
| **Practice** | n/a |

INFORMATION ABOUT CLASSES IN THE CYCLE

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| **Website** | <https://www.umcs.pl/en/courses-in-english,21103.htm>  (dla PJOE) |
| **Educational outcomes verification methods** | Demonstration (presentation), test, and analysis. |
| **Comments** | The classes will be concentrated in one week |
| **Reading list** | As indicated above |
| **Educational outcomes** | All shown above  KNOWLEDGE  Understand the benefits of using quantitative methods  SKILLS  Apply calculus techniques to analyze economic and business problems  ATTITUDES  Differentiate and integrate common functions that reflect real/practical economics, business, or Financial problems. |
| **A list of topics** | 1. Differentiation 2. Application of differentiation in economics, business, and Finance. 3. Integration 4. Application of integration in economics, business, & Finance |
| **Teaching methods** | Lecture and case study in competence-based approach |
| **Assessment methods** | Group assignments and Individual presentations. |