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| **Course code** | CC6 |
| **Type and description** | CC – program framework for discipline „management and quality sciences” |
| **ECTS credit** | 1 |
| **Course name** | **Quantitative methods in social sciences 1** |
| **Course name in Polish** | **Metody ilościowe w naukach społecznych 1** |
| **Language of instruction** | English |
| **Course level** | 8 PRK |
| **Course coordinator**  | **Dr hab. Filip Chybalski, prof. PŁ (0000-0001-9555-8741)** |
| **Course instructors** | **Dr inż. Edyta Marcinkiewicz (0000-0002-2229-4084)****Dr inż. Iwona Staniec (0000-0002-5580-5450)** |
| **Delivery methods and course duration** |

|  | **Lecture** | **Tutorials** | **Laboratory** | **Project** | **Seminar** | **Other** | **Total of teaching hours during semester** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Contact hours | 15 |  |  |  |  | 0 | 15 |
| E-learning | No | No | No | No | No | No |  |
| Assessment criteria (weightage) | 1,00 |  |  |  |  | 0,00 |  |

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| **Course objective** | To enable gaining knowledge on the selection and application of quantitative methods of data analysis |
| **Learning outcomes** | After completing the course, PhD-student can:1. define selected notions of quantitative methods – outcomes W1, U1, U2
2. select and apply quantitative methods discussed to the analysis of social phenomena – outcomes W1, U1 - U3, K1
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| **Assessment methods** | Outcomes 1 and 2: written examFinal grade: 100% written exam |
| **Prerequisites** | Not applicable |
| **Course content with delivery methods** | 1. Basic terminology of quantitative methods
2. Organization of statistical research
3. Measures characterizing the structure of population
4. Correlation analysis
5. Dynamics analysis
6. Methods of inferential statistics
7. Regression analysis and forecasting
8. Other selected quantitative methods and their application

Analiza regresji |
| **Basic reference materials** | 1. Lecturer’s materials
2. Aczel A.: Complete Business Statistics, Wohl Publishing, Morristown, 2012.
3. Stine R., Foster D., Statistics for Business, Pearson Education Limited, Essex, 2014.
 |
| **Other reference materials** | 1. Baltagi B.H., Econometric analysis of panel data, Wiley, Chichester, 2013.
2. Wooldridge J.M., Econometric analysis of cross section and panel data, The MIT Press, Cambridge, London, 2010.
3. Makridakis S., Wheelwright S.C., Hyndman R.J., Forecasting, John Wiley & Sons, Hoboken, 1998.
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| **Average student workload outside classroom** | 10h |
| **Comments** | - |
| **Last update** | 10.04.2019 |