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| **Course code** | CC5-8 |
| **Type and description** | Core Curriculum in Physics |
| **ECTS credit** | 1 |
| **Course name** | **Advanced research planning and management in physical sciences** |
| **Course name in Polish** | **Zaawansowane metody planowania i zarządzania projektami badawczymi w naukach fizycznych** |
| **Language of instruction** | English |
| **Course level** | 8 PRK |
| **Course coordinator**  | **prof. dr hab. Katarzyna Pernal** |
| **Course instructors** | **dr hab. inż. Jolanta Prywer, dr hab. inż. Jaromir Tosiek, dr inż. Michał Dobrski, prof. dr hab. Katarzyna Pernal, dr inż. Ewa Pastorczak, prof. dr hab. Włodzimierz Kucharczyk, dr hab. inż. Mariola Buczkowska, dr hab. inż. Tomasz Czyszanowski, dr hab. inż. Michał Wasiak, dr hab. inż. Maciej Dems** |
| **Delivery methods and course duration** |

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|  | **Lecture** | **Tutorials** | **Laboratory** | **Project** | **Seminar** | **Other** | **Total of teaching hours during semester** |
| Contact hours |  |  |  |  |  | 15 | 15 |
| E-learning | No | No | No | No | No | No |  |
| Assessment criteria (weightage) |  |  |  |  |  | 100% |  |

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| **Course objective** | Acquiring the skills and capabilities to conduct research and analyze acquired results in physical sciences.  |
| **Learning outcomes** | A PhD student is able to analyze a given problem and propose its solution, plan and carry out a theoretical or experimental investigation leading to finding a solution, critically assess the results, verify the hypothesis, write a scientific report or a paper, present and discuss the results at international level.  |
| **Assessment methods** | Activity. Assessment ways vary depending on the requirements of course instructors.  |
| **Prerequisites** | Completed university-level physics and mathematics courses. |
| **Course content with delivery methods** | Course content varies depending on the course instructor and a subject of a PhD project.  |
| **Basic reference materials** | Scientific papers and monographs related to the field of study. |
| **Other reference materials** |  |
| **Average student workload outside classroom** | 20h  |
| **Comments** |  |
| **Last update** | 24.04.2019 |