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| Module name | **Problems in Philosophy of Science** |
| Erasmus code | PL\_UMCS\_Phil\_03 |
| ISCED code |  |
| Language of instruction | English |
| Prerequisites | None |
| Educational outcomes verification methods | Oral exam |
| Description | The module covers the knowledge in the area of philosophy of science. The lecture presents the following approaches to philosophy, methodology, and history of science: logical empiricism, falsificationism, conventionalism, as well as historicized methodology of Polanyi, Hanson, and Kuhn. This should cover different views on testing and empirical control, explanation, and justification in science, the progress of science, the structure of scientific theories, realism vs anti- realism debate, the problem of meaning and demarcation, the role of science in history. |
| Reading list | Alex Rosenberg: *Philosophy of Science*  Stathis Psillos: *Philosophy of Science A-Z* |
| Educational outcomes | **KNOWLEDGE**  Students know basic terminology in the area of methodology and philosophy of science  Students know main methodological trends in philosophy of science and theories maintained there  **SKILLS**  Students are able to discuss critically main tendencies in philosophy of science  Students are able to point out the connection between history of science and philosophy of science  Students are able to employ methodological tools in other areas of study  **ATTITUDES**  Students acquire a critical attitude to all theories and protocols  Students respect methodological conceptual apparatus  Students appreciate the role of science in private and social life |