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| <b>Course title:</b><br>Philosophy of Science  |  | <b>Doctoral School of Chemistry and Environmental Sciences</b> |
| <b>Lecturer:</b><br><i>DR. GYÖRGY KAMPIS</i>   |  | <b>Academic title:</b><br>D.Sc. (university professor)         |
| <b>Contact hours:</b><br>20  | <b>Exam:</b><br>Written (short essays) | <b>Credit:</b><br>5  |
| <b>Aims:</b><br>Characterize historical and conceptual foundations of Philosophy of Science, placing of the topic in the disciplinary matrix.  |  |  |
| <b>Thematics:</b><br><i>A. General questions of science</i><br><i>A1. Scientific method and explanation</i><br><i>A2. Progress in science</i><br><i>A3. Individual and social knowledge</i><br><br><i>B. Theories of scientific theories</i><br><i>B1. Positivism and neo-positivism</i><br><i>B2. The deductive-nomological model</i><br><i>B3. Fallibilism</i><br><i>B4. Realism and its alternatives</i><br><br><i>C. Fundamental questions of science</i><br><i>C1. Theory and observation</i><br><i>C2. Natural kinds</i><br><i>C3. Natural laws</i><br><i>C4. Causal explanations</i><br><i>C5. Reductionism</i> |  |  |
| <b>Suggested textbooks:</b><br><br>Szegedi, P. and Forrai, G. (ed.) 1999: <i>Tudományfilozófia, szöveggyűjtemény</i> , Áron Kiadó, Budapest.<br><a href="https://regi.tankonyvtar.hu/hu/tartalom/tamop425/2011_0001_537_Tudomanyfilozofia/index.html">https://regi.tankonyvtar.hu/hu/tartalom/tamop425/2011_0001_537_Tudomanyfilozofia/index.html</a><br><br>Laki János (ed.) 1998: <i>Tudományfilozófia</i> , Osiris, Budapest.   |  |  |
| <b>Student's role:</b>   |  |  |