

## Karta przedmiotu

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|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------|------------------------|------------------------------------------------------------------------------------|-----------------------|-------|
| Nazwa i kod przedmiotu                   | Marxism and Mathematics: Contradiction, Dialectics, and Formal Thought, PG_00208752                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |                                      |                        |                                                                                    |                       |       |
| Kierunek studiów                         | Filozofia (O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                                      |                        |                                                                                    |                       |       |
| Data rozpoczęcia studiów                 | październik 2026 r.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           | Rok akademicki realizacji przedmiotu |                        | 2026/2027                                                                          |                       |       |
| Poziom kształcenia                       | II stopnia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                           | Grupa zajęć                          |                        | Grupa zajęć obowiązkowych z zakresu kierunku studiów<br>Grupa zajęć fakultatywnych |                       |       |
| Forma studiów                            | stacjonarne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           | Sposób realizacji                    |                        | na uczelni                                                                         |                       |       |
| Rok studiów                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           | Język wykładowy                      |                        | polski<br>English                                                                  |                       |       |
| Semestr studiów                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           | Liczba punktów ECTS                  |                        | 2.0                                                                                |                       |       |
| Profil kształcenia                       | ogólnoakademicki                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           | Forma zaliczenia                     |                        | egzamin                                                                            |                       |       |
| Jednostka prowadząca                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |                                      |                        |                                                                                    |                       |       |
| Imię i nazwisko wykładowcy (wykładowców) | Odpowiedzialny za przedmiot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           | dr Daniel Jockwich                   |                        |                                                                                    |                       |       |
|                                          | Prowadzący zajęcia z przedmiotu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           | dr Daniel Jockwich                   |                        |                                                                                    |                       |       |
| Formy zajęć                              | Forma zajęć                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Wykład                                                    | Ćwiczenia                            | Laboratorium           | Projekt                                                                            | Seminarium            | RAZEM |
|                                          | Liczba godzin zajęć                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30.0                                                      | 0.0                                  | 0.0                    | 0.0                                                                                | 0.0                   | 30    |
|                                          | W tym liczba godzin zajęć na odległość: 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |                                      |                        |                                                                                    |                       |       |
| Aktywność studenta i liczba godzin pracy | Aktywność studenta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Udział w zajęciach dydaktycznych, objętych planem studiów |                                      | Udział w konsultacjach |                                                                                    | Praca własna studenta | RAZEM |
|                                          | Liczba godzin pracy studenta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                                                        |                                      | 0.0                    |                                                                                    | 20.0                  | 50    |
| Cel przedmiotu                           | <ul style="list-style-type: none"><li>Greater confidence in engaging with challenging philosophical texts and discussing concepts from logic and mathematics at a non-technical level.</li><li>Increased awareness of their own assumptions about contradiction, consistency, rationality, and social change.</li><li>Openness to examining different philosophical perspectives, including classical, Hegelian, Marxist, and non-classical approaches to contradiction.</li><li>Intellectual curiosity about the relationships between philosophy, mathematics, and social theory.</li></ul> |                                                           |                                      |                        |                                                                                    |                       |       |

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| Efekty uczenia się przedmiotu                                 | Efekt kierunkowy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Efekt z przedmiotu                                                                                                                                                                                                                                                                              | Sposób weryfikacji i oceny efektu      |
|                                                               | [FILOZMU2_K07] Ma pogłębioną świadomość znaczenia refleksji humanistycznej dla formowania się więzi społecznych.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The graduate recognises how critical reflection on Marxist accounts of class conflict and social contradiction can deepen understanding of social bonds and solidarity, and appreciates the role of respectful philosophical dialogue in building mutual understanding.                         | [SK1] wypowiedź ustna/rozmowa/diskusja |
|                                                               | [FILOZMU2_W01] Zna i rozumie w stopniu pogłębionym rolę refleksji filozoficznej w kształtowaniu kultury.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The graduate knows and understands in depth the role of philosophical reflection on contradiction in shaping modern intellectual culture, particularly through Hegelian and Marxist interpretations of social change and debates about rationality and mathematical knowledge.                  | [SW1] wypowiedź ustna/rozmowa/diskusja |
|                                                               | [FILOZMU2_U03] Samodzielnie interpretuje tekst filozoficzny, komentuje i konfrontuje tezy pochodzące z różnych tekstów.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The graduate independently interprets selected philosophical texts by Aristotle, Hegel, Marx, and Engels, comments on their arguments concerning contradiction, and critically compares their theses, identifying points of agreement, disagreement, and differences in underlying assumptions. | [SU1] wypowiedź ustna/rozmowa/diskusja |
|                                                               | [FILOZMU2_W10] Zna i rozumie w stopniu pogłębionym poglądy wybranego wiodącego autora filozoficznego lub bieżący stan badań w zakresie wybranej problematyki filozoficznej.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The graduate knows and understands in depth the philosophical problem of contradiction, particularly its role in Hegelian and Marxist dialectics, and the main contemporary debates concerning paradox, consistency, and paraconsistent logic in the philosophy of mathematics.                 | [SW1] wypowiedź ustna/rozmowa/diskusja |
|                                                               | [FILOZMU2_U01] Wyszukuje, analizuje, ocenia, selekcjonuje i integruje informacje ze źródeł pisanych i elektronicznych.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | The graduate searches for, critically analyses, evaluates, selects, and integrates information from primary philosophical texts and scholarly print and electronic sources concerning contradiction, Hegelian and Marxist dialectics, and the philosophy of mathematics.                        | [SU1] wypowiedź ustna/rozmowa/diskusja |
| Treści przedmiotu                                             | <ul style="list-style-type: none"> <li>• <b>Aristotle and classical logic:</b> the law of non-contradiction and its significance for philosophical reasoning and metaphysics.</li> <li>• <b>Hegelian dialectics:</b> contradiction as a dynamic feature of thought and reality and its role in dialectical development.</li> <li>• <b>Marx and Engels:</b> the materialist transformation of Hegelian dialectics and the interpretation of contradiction in social structures and historical change.</li> <li>• <b>Marx's critique of capitalism:</b> contradictions between labour and capital, use-value and exchange-value, and economic stability and crisis.</li> <li>• <b>Paradox and the foundations of mathematics:</b> paradoxes in naïve set theory and their significance for debates about consistency and formal rigour.</li> <li>• <b>Non-classical and paraconsistent logic:</b> philosophical approaches to reasoning with inconsistency without allowing every statement to follow.</li> <li>• <b>Contemporary philosophical debates:</b> the possibilities and limitations of connecting Marxist dialectics with formal logic and the philosophy of mathematics.</li> </ul> |                                                                                                                                                                                                                                                                                                 |                                        |
| Wymagania wstępne i dodatkowe                                 | No formal prerequisites or co-requisites are required. Basic familiarity with philosophical terminology and argumentation is recommended. No advanced mathematical background is necessary; relevant concepts from logic and mathematics will be introduced at a conceptual and historical level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                 |                                        |
| Sposoby i kryteria oceniania osiągniętych efektów uczenia się | Sposób oceniania (składowe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Próg zaliczeniowy                                                                                                                                                                                                                                                                               | Składowa oceny końcowej                |
|                                                               | Oral Presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60.0%                                                                                                                                                                                                                                                                                           | 100.0%                                 |

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| Zalecana lista lektur | Podstawowa lista lektur    | <ol style="list-style-type: none"> <li>1. focusing on the law of non-contradiction.</li> <li>2. Hegel, G. W. F. <i>The Science of Logic</i>. Translated and edited by George di Giovanni. Cambridge University Press, 2010. Selected passages from the Doctrine of Essence concerning identity, difference, and contradiction.</li> <li>3. Marx, Karl. <i>Capital: A Critique of Political Economy</i>, Volume I. Translated by Ben Fowkes. Penguin Classics, 2004. Selected chapters concerning commodities, value, labour, and capital.</li> <li>4. Engels, Friedrich. <i>Anti-Dühring: Herr Eugen Dühring's Revolution in Science</i>. Translated by Emile Burns. English text available through the Marxists Internet Archive. Part I, Chapters XII–XIII, on dialectics.</li> <li>5. Priest, Graham. <i>Logic: A Very Short Introduction</i>. Second edition. Oxford University Press, 2017. Selected chapters introducing logical reasoning, self-reference, and paradox.</li> <li>6. Shapiro, Stewart. <i>Thinking about Mathematics: The Philosophy of Mathematics</i>. Oxford University Press, 2000. Selected chapters on the foundations of mathematics.</li> <li>7. Priest, Graham, Koji Tanaka, and Zach Weber. "Paraconsistent Logic." <i>The Stanford Encyclopedia of Philosophy</i>, revised 2026. Introduction and selected passages from Sections 1–2 on paraconsistency and its philosophical motivations.</li> </ol> |
|                       | Uzupełniająca lista lektur | <ol style="list-style-type: none"> <li>1. Houlgate, Stephen. "Hegel's Logic." In <i>The Cambridge Companion to Hegel and Nineteenth-Century Philosophy</i>, edited by Frederick C. Beiser, 111–134. Cambridge University Press, 2008. Further discussion of the purpose and method of Hegelian logic.</li> <li>2. Ollman, Bertell. <i>Dance of the Dialectic: Steps in Marx's Method</i>. University of Illinois Press, 2003. Selected chapters on dialectical method and Marx's analysis of capitalism.</li> <li>3. Sainsbury, R. M. <i>Paradoxes</i>. Third edition. Cambridge University Press, 2009. Particularly Chapters 6–7, concerning classes, truth, and the acceptability of contradictions.</li> <li>4. Priest, Graham. "Dialectic and Dialetheic." <i>Science &amp; Society</i> 53, no. 4 (1989–1990): 388–415. Further reading on the relationship between dialectics and dialetheism.</li> <li>5. Priest, Graham. <i>In Contradiction: A Study of the Transconsistent</i>. Second edition. Oxford University Press, 2006. Selected philosophical chapters on the defence of true contradictions, recommended for students seeking more advanced discussion.</li> </ol>                                                                                                                                                                                                                                                   |
|                       | Adresy eZasobów            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| Przykładowe zagadnienia/<br>przykładowe pytania/<br>realizowane zadania | <ol style="list-style-type: none"> <li>1. Explain Aristotle's law of non-contradiction and discuss its significance for philosophical reasoning.</li> <li>2. What distinguishes logical contradiction from dialectical contradiction? Illustrate the distinction with examples.</li> <li>3. Compare selected passages from Hegel and Marx. How does Marx transform Hegel's understanding of contradiction within a materialist account of historical change?</li> <li>4. Analyse a selected contradiction in Marx's critique of capitalism, such as the relationship between labour and capital or between use-value and exchange-value.</li> <li>5. Explain Russell's paradox in non-technical language. What questions does it raise about consistency and the foundations of mathematics?</li> <li>6. Explain how paraconsistent logic permits reasoning with inconsistent information. Does this necessarily involve accepting that some contradictions are true?</li> <li>7. Locate and critically evaluate two scholarly sources on the relationship between dialectics and formal logic. Use them to develop a short essay or presentation assessing whether these approaches can illuminate one another.</li> <li>8. How can philosophical reflection on social contradictions contribute to understanding conflict, solidarity, and the formation of social bonds? Support your response with examples from the course readings.</li> </ol> |
| Praktyki zawodowe<br>w ramach przedmiotu                                | Nie dotyczy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Dokument wygenerowany elektronicznie. Nie wymaga pieczęci ani podpisu.