

PHILOSOPHY OF SCIENCE

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| 1 | Course Title: | PHILOSOPHY OF SCIENCE |
| 2 | Course Code: | FLS0534 |
| 3 | Type of Course: | Optional |
| 4 | Level of Course: | First Cycle |
| 5 | Year of Study: | 2 |
| 6 | Semester: | 3 |
| 7 | ECTS Credits Allocated: | 4.00 |
| 8 | Theoretical (hour/week): | 2.00 |
| 9 | Practice (hour/week): | 0.00 |
| 10 | Laboratory (hour/week): | 0 |
| 11 | Prerequisites: | none |
| 12 | Language: | Turkish |
| 13 | Mode of Delivery: | Face to face |
| 14 | Course Coordinator: | Dr. Öğr. Üyesi VEHBİ METİN DEMİR |
| 15 | Course Lecturers: | |
| 16 | Contact information of the Course Coordinator: | Dr. Öğretim Üyesi V. Metin Demir vmetindemir@uludag.edu.tr; Uludağ Üniversitesi Felsefe Bölümü Fen-Edebiyat Fakültesi, 16059 Görükle, Bursa - Türkiye. Tel: +90 224 2941826 |
| 17 | Website: | |
| 18 | Objective of the Course: | The objective of this course is to introduce basic concepts and problems of philosophy of science. |
| 19 | Contribution of the Course to Professional Development: | Understanding the basic structure and philosophical aspects of science would help to comprehend contemporary problems |
| 20 | Learning Outcomes: | |
| | 1 | The student will be able to distinguish the concepts, questions and problems of philosophy of science. |
| | 2 | The student will be able to analyze philosophy of science by showing the differences between analytic philosophy from other disciplines in philosophy |
| | 3 | The student will be able to evaluate the problems of philosophy of science. |
| | 4 | student will be able to apply the problems of philosophy of science to his/her Age. |
| | 5 | The student will be able to comprehend the relationship between philosophy of science and history of science. |
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| 21 | Course Content: | |
| | Course Content: | |
| Week | Theoretical | Practice |
| 1 | What is Science? Relations of Science-philosophy- philosophy of science | |

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| 2 | A concise history of science | |
| 3 | Logic + Experience: Logical positivism | |
| 4 | Affirmation and the problem of Induction | |
| 5 | Popper: Falsificationism and progress in science | |
| 6 | The standpoint of history of science: Kuhn | |
| 7 | Paradigmshifts and The Structures of Scientific Revolutions | |
| 8 | Midterm exam | |
| 9 | Lakatos and Research Programs | |
| 10 | Postmodernism in philosophy of science: Feyerabend and feminist epistemology | |
| 11 | Sociology of science and Latour | |
| 12 | Naturalism in philosophy of science: Quine | |
| 13 | Does sciences show the reality: The realism debate | |
| 14 | What does science explain? The problem of scientific explanation | |

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| 22 | Textbooks, References and/or Other Materials: | <p>Peter Godfrey-Smith (2023) Kuram ve Gerçeklik: Bilim Felsefesine Giriş, Babil Yayıncılık, İstanbul</p> <p>Çüçen, Kadir (2013) Bilim Felsefesine Giriş, Sentez Yayıncılık, Bursa.</p> |
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| Activites | | Number | Duration (hour) | Total Work Load (hour) |
|---|---|--------|-----------------|------------------------|
| Midterm Exam | 1 | 30.00 | 2.00 | 28.00 |
| Theoretical | 1 | 14.00 | | |
| Practicals/Labs | | 0 | 0.00 | 0.00 |
| Home work-project | 1 | 20.00 | 4.00 | 40.00 |
| Self study and preperation | | 10 | | |
| Homeworks | | 5 | 3.00 | 15.00 |
| Total Projects | 3 | 100.00 | 0.00 | 0.00 |
| Field Studies | | 0 | 0.00 | 0.00 |
| Midterm exams | 1 | | 15.00 | 15.00 |
| Contribution of Final Exam to Success Grade | | 50.00 | | |
| Others | | 0 | 0.00 | 0.00 |
| Total Final Exams | | 100.00 | 20.00 | 20.00 |
| Total Work Load | | | | 118.00 |
| Total work load/ 30 hr | | | | 3.93 |
| 24. ECTS / WORK LOAD TABLE | | | | |
| ECTS Credit of the Course | | | | 4.00 |

| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
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| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 3 | 2 | 3 | 2 | 3 | 1 | 0 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 2 | 2 | 3 | 0 | 2 | 1 | 3 | 2 | 3 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 3 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 2 | 1 | 2 | 2 | 3 | 0 | 3 | 3 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |

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| ÖK5 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contrib ution Level: | 1 very low | | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | |