Jan Kochanowski University of Kielce

Academic year 2024/2025

Faculty of Mathematics and Natural Sciences

Institute of Physics

Field of study: Physics

Academic coordinator: dr Łukasz Jabłoński

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Detailed description of the courses below is available at: <https://fizyka.ujk.edu.pl/index.php/programy-edukacyjne/program-erasmus/#Courses-for-exchange-students>

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| PHYSICS | | | | | | |
| Course unit | Przedmiot | Type | ECTS | Completion requirements | Academic hours per semester |
| WINTER SEMESTER (1) | | | | | | |
| Fundamentals of Physics Laboratory | Pracownia podstaw fizyki | laboratory | 2 | graded credit | 30 |
| Physical laboratory II | II pracownia fizyczna | laboratory | 5 | graded credit | 60 |
| Physical laboratory III | III pracownia fizyczna | laboratory | 7 | graded credit | 105 |
| Fundamentals of Electronics Laboratory | Pracownia postaw elektroniki | laboratory | 4 | graded credit | 45 |
| Computer Methods | Metody komputerowe | lecture/classes | 2 | graded credit | 15 |
| Quantum Mechanics | Mechanika kwantowa | lecture/classes | 3 | graded credit | 30 |
| Statistical Physics | Fizyka statystyczna | lecture/classes | 2 | graded credit | 15 |
| Atomic Physics | Fizyka atomowa | lecture/classes | 3 | graded credit | 30 |
| Application Software | Oprogramowanie użytkowe | laboratory | 2 | graded credit | 30 |
| SUMMER SEMESTER (2) | | | | | | |
| Physical laboratory I | I pracownia fizyczna | laboratory | 4 | graded credit | 45 |
| Physical laboratory II | II pracownia fizyczna | laboratory | 5 | graded credit | 60 |
| Physical laboratory III | III pracownia fizyczna | laboratory | 5 | graded credit | 75 |
| Fundamentals of Electronics Laboratory | Pracownia postaw elektroniki | laboratory | 3 | graded credit | 30 |
| Relativistic Quantum Mechanics | Relatywistyczna mechanika kwantowa | lecture/classes | 2 | graded credit | 15 |
| Statistical Methods | Metody statystyczne | lecture/classes | 3 | graded credit | 10/20 |
| Introduction to the Standard Model of Particle Physics | Wprowadzenie do modelu standardowego fizyki cząstek | lecture/classes | 2 | graded credit | 15 |
| Introduction to General Relativity and Applications to Astrophysics and Cosmology | Wprowadzenie do ogólnej teorii względności i jej zastosowania w astrofizyce i kosmologii | lecture/classes | 3 | graded credit | 30 |
| Statistical Data Analysis | Analiza danych statystycznych | lecture/classes | 1 | graded credit | 10 |
| Methodology of Teaching in Higher Education | Metodyka prowadzenia zajęć w szkole wyższej | lecture/classes | 2 | graded credit | 15 |
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