Jan Kochanowski University of Kielce

Academic year 2025/2026

Faculty of Natural Sciences

Department of Mathematics

Field of study: Mathematics

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Detailed description of the courses below is available at: https://matematyka.ujk.edu.pl/index.php/course-cards-for-exchange-students/

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| MATHEMATICS |
| Course unit | Przedmiot | Type | ECTS | Completion requirements  | Academic hours per semester |
| WINTER SEMESTER (1) |
| Mathematical Analysis III | Analiza matematyczna III | Lecture and classes | 8 | Exam and graded credit | 120 (60 + 60) |
| Algebra and Number Theory | Algebra z teorią liczb | Lecture and classes | 7 | Exam and graded credit | 90(45+45) |
| Introduction to Differential Equations | Wstęp do równań różniczkowych | Lecture and classes | 2 | Exam and graded credit | 30(15 + 15) |
| Introduction to Differential Geometry | Wstęp do geometrii różniczkowej | Lecture and classes | 4 | graded credit | 60(30+30) |
| Topology I | Topologia I | Lecture and classes | 4 | Exam and graded credit | 60(30+30) |
| Statistics I | Statystyka I | Lecture and classes | 4 | graded credit | 60(30+30) |
| Measure and Integral Theory | Teoria miary i całki | Lecture and classes | 4 | Exam and graded credit | 60(30+30) |
| Complex Analysis | Analiza zespolona | Lecture and classes | 4 | Exam and graded credit | 60(30+30) |
| Topology II | Topologia II | Lecture and classes | 4 | Exam and graded credit | 60(30+30) |
| Differential Equations | Równania różniczkowe | Lecture and classes | 4 | Exam and graded credit | 60(30+30) |
| BA Diploma Seminar | Seminarium dyplomowe | seminar | 3 | graded credit | 30 |
| Bachelor Thesis Workshop | Pracownia dyplomowa | tutorial | 3 | graded credit | 30 |
| Masters Thesis Seminar II | Seminarium magisterskie II | seminar | 3 | graded credit | 30 |
| Masters Thesis Workshop II | Pracownia magisterska II | tutorial | 3 | graded credit | 30 |
| Monographical Lecture (Bachelor) | Wykład monograficzny (licencjackie) | Lecture | 1 | graded credit | 15 |
| Monographical lecture II (Master) | Wykład monograficzny (magisterskie) | Lecture | 2 | graded credit | 30 |
| Graph Theory \* | Teoria grafów (fakultatywny) | Lecture and classes | 4 | graded credit | 45(15 + 30) |
| Geometry of Banach Spaces \* | Geometria przestrzeni Banacha (fakultatywny) | Lecture and classes | 4 | graded credit | 45(15 + 30) |
| Integral Transformations \* | Transformacje całkowe(fakultatywny) | Lecture and classes | 4 | graded credit | 45(15 + 30) |
| Galois Theory \* | Teoria Galois(fakultatywny) | Lecture and classes | 4 | graded credit | 45(15 + 30) |
| SUMMER SEMESTER (2) |
| Mathematical Analysis IV | Analiza matematyczna IV | Lecture and classes | 4 | graded credit | 60(30 + 30) |
| Functional Analysis | Analiza funkcjonalna | Lecture and classes | 4 | Examand graded credit | 60(30+30) |
| Fractals Theory  | Teoria fraktali | Lecture and classes | 3 | ExamAnd graded credit | 45(15 + 30) |
| Monographical Lecture(Bachelor) | Wykład monograficzny | lecture | 2 | Exam  | 30 |
| Monographical Lecture I(Master) | Wykład monograficzny | lecture | 2 | graded credit | 30 |
| Monographical Lecture III(Master) | Wykład monograficzny | lecture | 2 | graded credit | 30 |
| BA Diploma Seminar | Seminarium dyplomowe | seminar | 6 | graded credit | 30 |
| Bachelor Thesis Workshop | Pracownia dyplomowa | tutorial | 7 | graded credit | 30 |
| Masters Thesis Seminar I | Seminarium magisterskie I | seminar | 2 | graded credit | 30 |
| Master Thesis Workshop I | Pracownia magisterska I | tutorial | 2 | graded credit | 30 |
| Masters Thesis Seminar III | Seminarium magisterskie III | seminar | 4 | graded credit | 30 |
| Masters Thesis Workshop III | Pracownia magisterska III | tutorial | 6 | graded credit | 30 |
| Category Theory \* | Teoria kategorii (fakultatywny) | Lecture and classes | 4 | Exam and graded credit | 45(15 + 30) |
| Algebraic Geometry | Geometria algebraiczna(fakultatywny) | Lecture and classes | 4 | graded credit | 45(15+30) |

\* - to be confirmed