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| logo_znak | **Jan Kochanowski University**  **The Faculty of Mathematics and Natural Sciences**  25-406 Kielce, ul. Świętokrzyska 15  Poland  Web page: <http://www.ujk.edu.pl/wmp/> |

**Field of Study: MATHEMATICS**

**Institute coordinator: dr Magdalena Nowak, e-mail address:** **mnowak@ujk.edu.pl**

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| **Course  Code** | **Course  name** | **ECTS  credits** | **Semester** |
| 11.1-2MAT-A09-HM | History of mathematics | 2 | summer |
| 11.1-2MAT-B01-WdM | Introduction to mathematics | 5 | winter |
| 11.1-2MAT-B02-AM1 | Mathematical analysis I | 10 | winter |
| 11.1-2MAT-B03-AM2 | Mathematical analysis II | 10 | summer |
| 11.1-2MAT-B04-AM3 | Mathematical analysis III | 6 | winter |
| 11.1-2MAT-B05-AM4 | Mathematical analysis IV | 5 | summer |
| 11.1-2MAT-B06-AL1 | Linear algebra I | 6 | winter |
| 11.1-2MAT-B07-AL2 | Linear algebra II | 6 | summer |
| 11.1-2MAT-B07-AzTL | Algebra and number theory | 8 | winter |
| 11.1-2MAT-B09-GA | Analytic Geometry | 5 | summer |
| 11.1-2MAT-B10-RP1 | Probability theory I | 5 | summer |
| 11.1-2MAT-B11-SO | Descriptive statistics | 2 | winter |
| 11.3-2MAT-B12-SM | Mathematical statistics I | 5 | winter |
| 11.1-2MAT-B13-T1 | Topology I | 5 | summer |
| 11.1-2MAT-B14-PM | Mathematical packages | 3 | winter |
| 11.1-2MAT-B16-AiSD | Algorithms and data structures | 6 | winter |
| 11.1-2MAT-B19-WdRR | Introduction to differentiale quations | 2 | summer |
| 11.1-2MAT-D2.01-SBZ/ 11.1-2MAT-D3.01-SBZ | Database Systems | 5/7 | summer/winter |
| 11.1-2MAT-D2.05-E1 | Econometrics I | 6 | winter |
| 11.1-2MAT-D2.07-ETG | Elements of game theory | 2 | winter |
| 11.1-2MAT-D3.02-AK | Spreadsheets | 3 | winter |
| 11.1-2MAT-D3.07-WAS | Multidimensional statistical analysis | 4 | summer |
| 11.1-2MAT-F02.1-PK | Foundations of cryptography | 5 | summer |
| 11.1-2MAT-F02.2-PR | Parallel programming | 5 | summer |
| 11.1-2MAT-F03.1-AWWW | WWW Applications | 5 | summer |
| 11.1-1MAT-F03.2-WGKOM | Introduction to computer graphics of mathematical objects | 5 | summer |
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| 11.1-2MAT-B01-ARiZ | Real and Complex Analysis | 7 | winter |
| 11.1-2MAT-B02-AF | Functional analysis | 4 | summer |
| 11.1-2MAT-B03-T2 | Topology II | 4 | summer |
| 11.1-2MAT-B04-RR | Differential Equations | 5 | winter |
| 11.1-2MAT-B05-RP2 | Probability theory II | 4 | summer |
| 11.1-2MAT-B06-MD | Discrete mathematics | 5 | winter |
| 11.1-2MAT-B09-S2 | Statistics II | 5 | winter |
| 11.1-2MAT-B10-MNiAA | Analysis of Algorithms and Numerical Methods | 3 | summer |
| 11.1-2MAT-B11-GR | Differential Geometry | 5 | winter |
| 11.1-2MAT-D2.02-E2 | Econometrics II | 6 | winter |
| 11.1-2MAT-D2.03-TG | Graph theory | 6 | summer |
| 11.1-2MAT-D2.04-OTL | Computational numer theory | 6 | winter |
| 11.1-2MAT-D2.05-MMFW | Methods of modern mathematical physics | 4 | summer |
| 11.1-2MAT-F01.2-TF | Fractal Theory | 5 | winter |
| 11.1-2MAT-F02.1-MMPiPI | Mathematical methods of information transmission and processing | 5 | summer |
| 11.1-2MAT-F02.2-K | Cryptography | 5 | summer |
| 11.1-2MAT-F03.2-MOA | Efficient Methods of Algebra | 5 | summer |