

Faculty of Physics and Applied Informatics

List of courses*

*The course will be open as a regular lecture if 5 students enroll.

In opposite case the tutorial can be organized.

field of study: **PHYSICS**
 level: **undergraduate (BSc)**
 mode: **full-time**

| year | semester | code | course title | ECTS |
|------|----------|--------------|---|------|
| I | summer | 1500-FLALGB | Algebra | 6 |
| | | 1500-FL1PFZ | General Physics I | 10 |
| | | 1500-FZO2FA | Introduction to Atomic, Molecular and Solid State Physics | 1 |
| | | 1500-FL1AMA | Mathematical Analysis I | 8 |
| | | 1500-FL2LFZ | Physical Lab I (part 1) | 3 |
| | | 1500-FNT2PN | The Physical Elements of Nanotechnology | 5 |
| II | summer | 1500-FL4MKR | Classical and Relativistic Mechanics | 5 |
| | | 1500-IMO9SA | Computer algebra system | 4 |
| | | 1500-FML3PF | General Physics III | 6 |
| | | 1500-FM4OP | Interactions of Ionizing Radiation and its Detection | 2 |
| | | 1500-FML4ZPJ | Ionizing Radiation Sources | 2 |
| | | 1500-FL3AMA | Mathematical Analysis III | 8 |
| | | 1500-FN4NS1 | Nanostructures I | 4 |
| | | 1500-FL4MN | Numerical Methods | 2 |
| | | 1500-FL4LFZ | Physical Lab I (part 3) | 3 |
| | | 1500-FML4OR | Radiation Protection | 4 |
| | | 1500-FL3EW | Selected Problems of Modern Electronics | 5 |
| | | 1500-FL4TFS | Thermodynamics and Statistical Physics | 6 |
| | | 1500-FML6ZP | Application of Radiation in Medicine | 1 |
| | | 1500-IMO9SA | Computer Algebra Systems | 4 |
| III | summer | 1500-LFM6TE | Contemporary Electronic and Computer Techniques in Medicine | 2 |
| | | 1500-FL4AP | Control Systems of Measures Apparatus | 7 |
| | | 1500-ISM0NP | History of Natural Science | 1 |
| | | 1500-DLF6WB | Introduction to Biophysics | 2 |
| | | 1500-FZM9ME | Modern Electronics in Physics | 5 |
| | | 1500-FZN6NP | Pragmatic of Nanotechnology | 3 |
| | | 1500-FL6MKW | Quantum Mechanics I | 6 |
| | | 1500-FZO2FA | Selected Topics of Atomic, Molecular and Condensed Matter Physics | 4 |
| | | 1500-FL6FAS | Selected Topics of Astrophysics and Cosmology | 2 |
| | | 1500-ZSO5SF | Symmetries in Physics | 3 |

field of study: **PHYSICS**
 level: **graduate studies**
 mode: **full-time**

| year | semester | code | course title | ECTS |
|------|----------|---------------|--|------|
| I | summer | 1500-FZIIIPR2 | Physical Lab II (part II) | 9 |
| | | 1500-FMU2FS | Physics of Condensed Phase | 9 |
| | | 1500-FMU2PS | Specialization Lab | 6 |
| | | 1500-FZ8TICE | Theory of Elementary Particles | 3 |
| | | 1500-FL5JAC | Selected Problems of Nuclear and Elementary Particle Physics | 3 |
| | | 1500-FL6AK | Selected Topics of Astrophysics and Cosmology | 3 |
| | | 1500-FL4MKR | Classical and Relativistic Mechanics | 3 |
| | | 1500-FL4TFS | Thermodynamics and Statistical Physics | 3 |
| II | summer | 1500-FL1HFZ | The History of Physics | 1 |
| | | 1500-FMU4N | Nanotechnology | 2 |
| | | 1500-FZM8FP | Cosmic Ray Physics | 3 |
| | | 1500-FMU3PJ | Nuclear Transmutations and Applications of Nuclear Physics | 2 |
| | | 1500-FMUZS4 | Lasers in Medicine | 2 |
| | | 1500-FMU4SM | Statistics in Medicine | 3 |