



PHYSICS MSc Program

| REMEDIAL COURSES | | | | |
|---------------------------------|-------------|--|------------|-------------|
| Dept. | Code | Course Name | CR. | ECTS |
| PHYS | 102 | Physics II | NC | |
| PHYS | 104 | Physics III | NC | |
| PHYS | 203 | Statistical Physics | NC | |
| PHYS | 204 | Classical Mechanics | NC | |
| PHYS | 205 | Introduction to Optics | NC | |
| PHYS | 206 | Mathematical Methods in Physics | NC | |
| MATH | 241 | Differential Equations | NC | |
| PHYS | 303 | Introduction to Metrology | NC | |
| PHYS | 306 | Photonics | NC | |
| PHYS | 311 | Quantum Mechanics | NC | |
| PHYS | 317 | Electromagnetism | NC | |
| PHYS | 319 | Modern Physics | NC | |
| PHYS | 412 | Condensed Matter Physics | NC | |
| PROGRAM COURSES | | | | |
| Dept. | Code | Course Name | CR. | ECTS |
| PHYS | 511 | Electromagnetism I | 4 | 10 |
| PHYS | 541 | Thermodynamics | 4 | 10 |
| PHYS | 561 | Mathematical Methods and Classical Mechanics | 3 | 10 |
| PHYS | 521 | Quantum Mechanics I | 3 | 10 |
| PHYS | 542 | Advanced Metrology | 3 | 10 |
| | | Area Elective I* | 3 | 10 |
| | | Area Elective II | 3 | 10 |
| PHYS | 590 | Research Seminar | NC | 2 |
| PHYS | 600 | MSc Thesis | NC | 60 |
| | | TOTAL | 24 | 132 |
| EXTRA/NON-DEGREE COURSES | | | | |
| Dept. | Code | Course Name | CR. | ECTS |
| | | Extra/Non-degree | NC | |

| Course Group | Description |
|---------------------|---|
| Area Elective I | PHYS 514, ESYE 501, BTEC 550 |
| Area Elective II | All GSNAS courses in the elective pool offered by all departments |
| Extra/Non-degree | Optional non-credit (NC) courses that are not part of the program |
| Remedial Course | Undergraduate level courses offered by department. |