

| course | SSD | Type of activity | language | hrs | credits | year of attendance | final test | optional/mandatory |
|---|------------|------------------|----------|-----|---------|--------------------|------------|--------------------|
| ADVANCED THEORETICAL PHYSICS A | FIS/02 | lesson | English | 16 | 2 | 1 | yes | optional |
| ADVANCED THEORETICAL PHYSICS B | FIS/02 | lesson | English | 16 | 2 | 2 | yes | optional |
| INTRODUCTION TO QUANTUM COMPUTING AND QUANTUM ALGORITHMS | FIS/02 | lesson | English | 16 | 2 | 1 | yes | optional |
| QUANTUM CHAOS AND BLACK HOLES | FIS/02 | lesson | English | 16 | 2 | 1 | yes | optional |
| CURRENT AND FUTURE CHALLENGES IN GRAVITATIONAL-WAVE ASTRONOMY | FIS/05 | lesson | English | 16 | 2 | 1 | yes | optional |
| GALAXY EVOLUTION IN COSMIC STRUCTURES A | FIS/05 | lesson | English | 16 | 2 | 1 | yes | optional |
| GALAXY EVOLUTION IN COSMIC STRUCTURES B | FIS/05 | lesson | English | 16 | 2 | 2 | yes | optional |
| NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS | FIS/05 | lesson | English | 8 | 1 | 1 | yes | optional |
| PHYSICS AT COLLIDERS | FIS/01 | lesson | English | 16 | 2 | 2 | yes | optional |
| SCIENTIFIC COMPUTING WITH PYTHON | ING-INF/01 | lesson | English | 16 | 2 | 1 | yes | optional |
| DEEP LEARNING FOR PHYSICISTS | ING-INF/01 | lesson | English | 16 | 2 | 1 | yes | optional |
| ELECTRONICS FOR PHYSICISTS | ING-INF/01 | lesson | English | 16 | 2 | 2 | yes | optional |
| TOPICS ON MICROELECTRONICS | ING-INF/01 | lesson | English | 8 | 1 | 1 | yes | optional |
| ADVANCED TOPICS ON MICROELECTRONICS | ING-INF/01 | lesson | English | 8 | 1 | 2 | yes | optional |
| INTRODUCTION TO PLASMA BOUNDARY IN FUSION DEVICES | FIS/03 | lesson | English | 16 | 2 | 1 | yes | optional |
| ADVANCED PLASMA PHYSICS: WAVES IN INHOMOGENEOUS PLASMAS AND KINETIC DESCRIPTION | FIS/03 | lesson | English | 16 | 2 | 2 | yes | optional |
| COLD ATMOSPHERIC PLASMA APPLICATIONS IN LIFE SCIENCES | FIS/03 | lesson | English | 8 | 1 | 2 | yes | optional |

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| PRECISION COSMOLOGY: THE CMB POLARIZATION QUEST | FIS/05 | lesson | English | 16 | 2 | 1 | yes | optional |
| PHOTONICS FRONTIERS: NAVIGATING THE LASER LANDSCAPE IN PHYSICS | FIS/07 | lesson | English | 8 | 1 | 1 | yes | optional |
| IMAGING MEDICO | FIS/07 | lesson | English | 16 | 2 | 1 | yes | optional |
| DIGITAL SIGNAL PROCESSING FOR NUCLEAR PHYSICS | ING-INF/01 | lesson | English | 16 | 2 | 1 | yes | optional |
| DETECTION OF GRAVITATIONAL WAVES | FIS/01 | lesson | English | 16 | 2 | 1 | yes | optional |
| STATUS AND PERSPECTIVES OF ASTROPARTICLE | FIS/01 | lesson | English | 16 | 2 | 1 | yes | optional |
| RECENT DEVELOPMENTS IN THEORETICAL PHYSICS | FIS/02 | lesson | English | 16 | 2 | 1 | yes | optional |
| RECENT DEVELOPMENTS IN PARTICLE PHYSICS | FIS/01 | lesson | English | 8 | 1 | 2 | yes | optional |
| RECENT DEVELOPMENTS IN PLASMA PHYSICS | FIS/01 | lesson | English | 8 | 1 | 1 | yes | optional |
| INTRODUCTION TO (FUN) SCIENCE COMMUNICATION A | FIS/01 | lesson | English | 8 | 1 | 1 | yes | optional |
| INTRODUCTION TO (FUN) SCIENCE COMMUNICATION B | FIS/01 | lesson | English | 8 | 1 | 1 | yes | optional |
| RECENT DEVELOPMENTS IN EXPERIMENTAL PHYSICS | FIS/07 | lesson | English | 8 | 1 | 2 | yes | optional |
| | | | | 384 | 48 | | | |