

APPENDIX A
RELEVANT PREREQUISITE COURSES

7th Edition – March 2026

According to the Internship Regulations, student selection takes into account prerequisite courses relevant to the field of the Host Organization, as documented by an up-to-date Transcript of Records.

The table below lists, in the third column, the relevant prerequisite courses in which students must have successfully completed the examination.

Successful completion of these courses contributes to the student selection process.

Field of Internship	Host Organizations	Relevant Prerequisite Courses Used for the Calculation of the Average Grade
Applications of Nuclear Physics in Medicine	Hospitals – Clinics – “Demokritos” IPRETA	1. Nuclear Physics Laboratory I (C / 7 th semester) 2. Nuclear Physics and Elementary Particle Physics (C / 6 th semester) 3. Medical Physics – Dosimetry (BE / 7 th semester) or Radiation Physics and Radioisotope Applications (E / 8 th semester)
Applications in Nuclear Energy Production	“Demokritos” IPRETA	1. Nuclear Physics Laboratory I (C / 7 th semester) 2. Nuclear Physics and Elementary Particle Physics (C / 6 th semester) 3. Energy Production from Nuclear and Fossil Fuels (E / 8 th semester) or Environmental radioactivity (E / 8 th semester)
Experimental Nuclear Physics	“Demokritos” IPP & EPSP	1. Nuclear Physics Laboratory I (C / 7 th semester) 2. Nuclear Physics and Elementary Particle Physics (C / 6 th semester) 3. Accelerators and Detectors in Nuclear and Particle Physics (E / 8 th semester) or Nuclear Physics: Laboratory Course II (E / 8 th semester)
Experimental Elementary Particle Physics	“Demokritos” IPP & EPSP	1. Nuclear Physics Laboratory I (C / 7 th semester) 2. Nuclear Physics and Elementary Particle Physics (C / 6 th semester) 3. Experimental Foundations of Particle Physics (E / 8 th semester) or Accelerators and Detectors in Nuclear and Particle Physics (E / 8 th semester)
Astroparticle Physics	“Demokritos” IPP & EPSP	1. Nuclear Physics Laboratory I (C / 7 th semester) 2. Nuclear Physics and Elementary Particle Physics (C / 6 th semester) 3. Cosmic Radiation (E / 7 th semester) or Nuclear Physics: Laboratory Course II (E / 8 th semester)
Applications in Atmospheric, Environmental and Meteorological Sciences	HNMS, ELGA, Environmental Directorates of Municipalities and Regions, etc	1. Atmospheric and Environmental Physics (C / 3 rd semester) 2. Atmospheric Environment (BE / 7 th semester) 3. Atmospheric Diffusion and Dispersion (GE / 8 th semester) or Physics of Atmospheric Measurements (formerly Atmospheric Technology) (BE/7 th semester)
Educational Institutions & NOESIS	Secondary Education Schools, EKFE, Private Tutoring Centres, NOESIS	1. Didactics of Physics (πρώην Introduction to Didactics of Physics) (BE / 7 th semester) 2. Laboratory Exercises in Physics (formerly General Laboratory) (C / 2 nd semester) 3. Didactics of Physics Laboratory (E / 8 th semester) or Educational Technology Laboratory (E / 8 th semester)

Computer Hardware and Software Organizations	Companies specializing in computer hardware and software (e.g. UNIQUE)	1. Applied Informatics Laboratory (C / 1 st semester) 2. Electric Circuits Laboratory (C / 3 rd semester) 3. Electronic Circuits (BE / 7 th semester)
Computer Programming Organizations	Companies specializing in software development and programming	1. Applied Informatics Laboratory (C / 1 st semester) 2. Computer Programming & Computational Physics (C / 2 nd semester) 3. Computational Physics and Application (BE / 7 th semester)
Electronics Organizations	Companies specializing in the design and manufacture of electronic circuits	1. Electronics Laboratory (C / 5 th semester) 2. Electric Circuits Laboratory (C / 3 rd semester) 3. Electronics (C / 4 th semester) or Electronic Circuits (BE / 7 th semester)
OTE and Telecommunications Organizations	Companies specializing in telecommunications research	1. Electric Circuits Laboratory (C / 3 rd semester) or Electronics Laboratory (C / 5 th semester) 2. Telecommunication Systems (formerly Telecommunications Themes (BE / 7 th semester) 3. Propagation of Telecommunication Signals (formerly Electromagnetic Wave Propagation – Antennas – Microwaves) (E / 8 th semester)
Metrology	Institutes specializing in metrology	1. Metrology – Quality Systems (E / 8 th semester) 2. Electronics Laboratory (C / 5 th semester) 3. Electric Circuits Laboratory (C / 3 rd semester)
Materials Organizations	Companies specializing in materials and nanomaterials research	1. Structure of Materials: Laboratory Course (formerly Structure of Materials Laboratory) (C / 3 rd semester) 2. Solid State Physics (C / 6 th semester) 3. Crystal Structure and Applications (E / 8 th semester) or Physics of Materials (E / 8 th semester)
National Observatory of Athens	Institutes specializing in Astronomy and Cosmology	1. Astronomy – Astrophysics (C / 6 th semester) 2. Astrophysics (BE / 7 th semester) 3. Observational Astronomy (GE / 8 th semester)
Theoretical Physics	Institutes specializing in Theoretical Physics	1. Theoretical Mechanics (C / 4 th semester) 2. Quantum Mechanics (formerly Quantum Mechanics I) (C / 5 th semester) 3. Computational Physics and Application (BE / 7 th semester)

NCSR “Demokritos”, CERTH, or another Research Institute:

Institute of Informatics and Telecommunications

see OTE and Telecommunications Organizations

Institute of Biosciences and Applications

see Applications of Medical and Nuclear Physics

Institute of Nuclear and Radiological Sciences

see Nuclear Physics

Institute of Nanoscience and Nanotechnology

see Materials Organizations

Institute of Nuclear and Particle Physics

see Nuclear Physics